

ULLRICH ALUMINIUM



EXTRUSION CATALOGUE

60TH ANNIVERSARY EDITION 18



QUALITY • SERVICE • INTEGRITY

The Ullrich Aluminium Extrusion Process

Extrusion Production is by far the most complex and dedicated phase in the process of providing our extruded profiles. It requires the specific technology, technical skills and experience gained from our decades long history as a family owned company to achieve this.

The extensive process moves from the creation of specific *Steel Dies* (matrices), whose design is entrusted to expert technicians, assisted by the most modern means of *CAD* two-dimensional and three-dimensional shape designs. During the extrusion process the suitably preheated *Aluminium Billets* are pushed under pressure by the ram of our press through the designed *Die*, this then transforms the extrusion into long profiled lengths by one of our three presses which vary in power, from 2000 to 2500 tons.

Ullrich Aluminium has the production capacity to supply small, medium and large profiles up to 15.4 metres in length, and 10kg per metre in weight. The extrusion is produced in compliance to the working tolerances of the AS/NZS 1866 Standard. That ensures the assembly of finished components and facilitates the obtainment of quality certification of the final product.

After their extrusion, the profiled sections are subjected to *Straightening* (stretching), a process that brings profiles within the required lineal tolerances. Then once cut to the required length they are transferred into special ageing ovens for the tempering process, which achieves their optimal tensile strengths. The packing stations are the final phase in the production line, where the profiles are packed and protected in preparation for the subsequent stages of storage, transport or delivery to destination.

Ullrich Aluminium constantly strives to offer its customers valuable assistance, aimed at optimising an outcome in which to achieve the best possible design, processing and execution times for the profiles. We also strive to provide a positive response to different needs of a technical or aesthetic nature.

Our in-house developed production control system makes it possible to track the requests submitted by the customer and to monitor the progress of the project during the production process. This tracking can be beneficial for our numerous Australian, New Zealand and Export clients.

When you need *Extruded Aluminium Products* think of *Ullrich Aluminium* as your first stop for assistance on your journey forward. Our 42 facilities in all major cities and regions of Australia and New Zealand will be pleased to provide you with a quality of service experience.

Kind Regards

Gilbert Ullrich
CEO



Manufacturers of Quality Aluminium Extrusions
NATIONAL DISTRIBUTION CENTRE, HAMILTON, NEW ZEALAND

ULLRICH ALUMINIUM EXTRUSION CATALOGUE

EDITION 18

A COMPREHENSIVE CATALOGUE
OF ALUMINIUM EXTRUSIONS

FROM THE ULLEXCO DIVISION OF
ULLRICH ALUMINIUM COMPANY LTD,
A 100% NEW ZEALAND OWNED AND
OPERATED COMPANY

"Ullexco will meet all customer requirements
to ISO 9001:2015 and is committed to achieving
continual improvement across all aspects of
our quality management system."



Gilbert W Ullrich
CEO
2021

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QUALITY • SERVICE • INTEGRITY



CATALOGUE GUIDELINES	iii
NEW ZEALAND SERVICE NETWORK	iv
ULLRICH DIE INDEX	v - xii
PRODUCT CATEGORIES:	
STANDARD PROFILES	SECTION 1
Equal & Unequal Angle	Solid Free Machining Rod
Channel	Flat Bar
Square & Rectangular Hollow	Machining Flat Bar
Extruded Round Tube	Tee
Drawn Round Tube	Top Hat
Solid Round, Square, Hexagon	Zed, I Beam, Half Round, Cope Mould
ACP 4mm SIGN PANEL SECTIONS	SECTION 9
AWNING & DRIP MOULDS	SECTION 6
BALUSTRADE	SECTION 19
COMMERCIAL DOOR	SECTION 17
COOLROOM	SECTION 2
DUCTING	SECTION 16
Multipurpose Cable, Power & Telephone.	
FENCING	SECTION 18
FLYSCREEN	SECTION 11
HEATSINK	SECTION 21
HERZIM INFILL MOULDINGS	SECTION 6
LOUVRE	SECTION 12
MARINE	SECTION 5
MISCELLANEOUS	SECTION 23
MODULAR DESIGN SYSTEM	SECTION 25
PALLET	SECTION 27
PARTITIONING SYSTEMS	SECTION 15
Designer, Designer 1000 & Toilet.	
SECURITY DOOR & WINDOW	SECTION 10
SHOP FRONT	SECTION 17
T2, 75mm, 100mm & General.	
SIGN SECTIONS	SECTION 20
Sign Frames & Street Signs.	
STAIR NOSING & FLOORING	SECTION 4
STORM SHUTTERS	SECTION 26
Storm Shutter & Accordion Storm Shutter.	
THRESHOLD	SECTION 3
TRANSPORT	SECTION 7
ULLTRABATTEN SYSTEMS	SECTION 13
ULLTRACLAD CLADDING SYSTEM	SECTION 14
WALLBOARD	SECTION 8
Cappings, Jointers, Internal & External Corners.	
WARDROBE TRACKS	SECTION 22
Cavity & Vee Glide.	
WEATHER SEAL	SECTION 24
USEFUL INFORMATION	APPENDIX



The Ullrich Aluminium Extrusion Catalogue has been prepared as a comprehensive resource book for Architects, Designers, Specifiers, Builders, Engineers and Fabricators.

Catalogue features

Edition 18 features include:

- The Ullrich service network
- Numeric die number index
- Catalogued by section to industry type
- Die and description Index for each section
- Accurate, actual size profile diagrams
- Related profile data in easy-reference lists
- Assembly hints and diagrams
- Graph pages for planning and notes
- Internet-accessible profile drawings
- Extrusion terminology
- Aluminium properties and tolerances data
- Historical information
- Handling and storage guidance
- Surface treatment and cleaning information
- Imperial-metric conversion tables

Disclaimer

Every effort has been made to ensure accuracy and the most up-to-date information in the compilation of this catalogue. However, Ullrich Aluminium Company Ltd does not accept responsibility for any inaccuracy or errors contained herein. Information and values presented are intended only as a guide to performance and application suitability. Nothing herein contained constitutes a warranty that any product is specifically suitable for a particular purpose. Ullrich Aluminium reserves the right to change product design and specifications without notice.

Ordering

Availability of certain product lines, stock lengths, tempers and alloys may vary at different Ullrich Aluminium Sales Centres. Please enquire about the availability of your particular requirements before placing your order.

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DIE No	PAGE	DIE No	PAGE	DIE No	PAGE	DIE No	PAGE
UA 1004	1-19	UA 1119	1-4	UA 1173	1-19	UA 1227	1-13
UA 1034	15-9	UA 1120	1-4	UA 1174	1-19	UA 1228	1-15
UA 1035	15-9	UA 1121	1-1	UA 1175	1-19	UA 1229	1-13
UA 1037	16-1	UA 1122	1-1	UA 1176	1-19	UA 1230	1-13
UA 1038	16-1	UA 1123	1-1	UA 1177	1-20	UA 1231	1-13
UA 1039	16-1	UA 1124	1-1	UA 1178	1-20	UA 1232	1-13
UA 1040	16-1	UA 1125	1-3	UA 1179	1-19	UA 1233	1-13
UA 1041	16-1	UA 1126	1-1	UA 1180	1-19	UA 1234	1-13
UA 1042	16-1	UA 1127	1-2	UA 1181	1-19	UA 1235	1-13
UA 1043	1-6	UA 1128	1-4	UA 1182	1-19	UA 1236	1-14
UA 1043	16-1	UA 1129	1-1	UA 1183	1-20	UA 1237	1-14
UA 1046	15-9	UA 1130	1-5	UA 1184	1-20	UA 1238	1-14
UA 1047	15-9	UA 1131	1-5	UA 1185	1-21	UA 1239	1-14
UA 1049	1-8	UA 1132	1-5	UA 1186	1-21	UA 1240	1-14
UA 1050	1-8	UA 1133	1-5	UA 1187	1-21	UA 1241	1-14
UA 1054	11-1	UA 1134	1-5	UA 1188	1-19	UA 1242	1-14
UA 1055	26-1	UA 1135	1-6	UA 1189	1-19	UA 1243	1-13
UA 1056	26-1	UA 1136	1-6	UA 1190	1-19	UA 1244	1-15
UA 1057	26-1	UA 1137	1-5	UA 1191	1-19	UA 1245	1-13
UA 1065	12-1	UA 1138	1-5	UA 1192	1-20	UA 1246	1-14
UA 1068	1-3	UA 1139	1-5	UA 1193	1-20	UA 1247	1-15
UA 1070	17-5	UA 1140	1-5	UA 1194	1-20	UA 1248	1-13
UA 1073	1-15	UA 1141	1-5	UA 1195	1-25	UA 1249	1-13
UA 1074	1-20	UA 1142	1-5	UA 1196	1-25	UA 1250	1-14
UA 1089	12-2	UA 1143	1-5	UA 1197	1-10	UA 1251	1-14
UA 1090	1-1	UA 1144	1-6	UA 1198	1-11	UA 1252	1-15
UA 1091	1-1	UA 1145	1-6	UA 1199	1-12	UA 1253	1-15
UA 1092	1-1	UA 1146	1-6	UA 1200	1-10	UA 1254	1-15
UA 1093	1-3	UA 1147	1-6	UA 1201	1-11	UA 1255	1-15
UA 1094	1-1	UA 1148	1-6	UA 1202	1-11	UA 1256	1-14
UA 1095	1-3	UA 1149	1-6	UA 1203	1-11	UA 1257	1-17
UA 1096	1-1	UA 1150	1-6	UA 1204	1-10	UA 1258	1-17
UA 1097	1-1	UA 1151	1-19	UA 1205	1-8	UA 1259	1-17
UA 1098	1-3	UA 1152	1-19	UA 1206	1-8	UA 1260	1-17
UA 1099	1-1	UA 1153	1-19	UA 1207	1-8	UA 1261	1-17
UA 1100	1-1	UA 1154	1-19	UA 1208	1-8	UA 1262	1-17
UA 1101	1-1	UA 1155	1-20	UA 1210	1-8	UA 1263	1-17
UA 1102	1-3	UA 1156	1-20	UA 1211	1-8	UA 1264	1-17
UA 1103	1-1	UA 1157	1-21	UA 1212	1-8	UA 1265	1-17
UA 1104	1-3	UA 1158	1-21	UA 1212	18-2	UA 1266	1-17
UA 1105	1-1	UA 1159	1-19	UA 1213	1-9	UA 1267	1-17
UA 1106	1-3	UA 1160	1-19	UA 1214	1-9	UA 1268	1-17
UA 1107	1-1	UA 1161	1-20	UA 1215	1-9	UA 1269	1-17
UA 1108	1-3	UA 1162	1-20	UA 1216	1-23	UA 1270	1-17
UA 1109	1-3	UA 1163	1-20	UA 1217	1-23	UA 1271	1-17
UA 1110	1-1	UA 1164	1-19	UA 1218	1-23	UA 1272	1-18
UA 1111	1-3	UA 1165	1-19	UA 1219	1-23	UA 1273	1-18
UA 1112	1-3	UA 1166	1-21	UA 1220	1-23	UA 1274	1-18
UA 1113	1-1	UA 1167	1-20	UA 1221	1-25	UA 1275	1-18
UA 1114	1-1	UA 1168	1-20	UA 1222	1-25	UA 1276	1-18
UA 1115	1-3	UA 1169	1-21	UA 1223	1-25	UA 1277	1-18
UA 1116	1-1	UA 1170	1-19	UA 1225	1-13		
UA 1117	1-3	UA 1171	1-19	UA 1225	18-2		
UA 1118	1-2	UA 1172	1-19	UA 1226	1-13		

DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED.
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OAB = OVERALL DIMENSIONS
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MR = MILL RUN ONLY • NON-STOCKED ITEM • MINIMUM ORDER 200KG

NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

Edition 18 - 2021

DIE No	PAGE	DIE No	PAGE	DIE No	PAGE	DIE No	PAGE
UA 1278	1-18	UA 1340	23-2	UA 1398	7-1	UA 1449	1-25
UA 1279	1-18	UA 1341	23-1	UA 1399	7-1	UA 1451	8-1
UA 1280	1-24	UA 1342	23-1	UA 1400	7-1	UA 1452	8-2
UA 1280	19-1	UA 1343	23-1	UA 1402	7-4	UA 1453	8-3
UA 1281	1-24	UA 1344	1-23	UA 1403	7-4	UA 1454	8-4
UA 1282	1-24	UA 1345	23-1	UA 1404	7-6	UA 1455	8-1
UA 1283	1-24	UA 1347	23-6	UA 1405	7-2	UA 1456	8-2
UA 1284	1-24	UA 1348	23-6	UA 1406	6-1	UA 1457	8-3
UA 1285	17-1	UA 1349	24-1	UA 1407	6-1	UA 1458	8-4
UA 1286	17-1	UA 1350	23-3	UA 1408	6-1	UA 1459	8-4
UA 1287	17-1	UA 1351	23-3	UA 1409	6-1	UA 1460	8-2
UA 1288	17-1	UA 1352	23-4	UA 1410	6-1	UA 1461	8-1
UA 1289	17-1	UA 1353	23-4	UA 1411	6-1	UA 1472	8-2
UA 1290	17-1	UA 1354	23-4	UA 1412	6-1	UA 1473	8-2
UA 1291	17-1	UA 1355	11-1	UA 1413	6-1	UA 1474	2-2
UA 1291	17-2	UA 1356	23-4	UA 1414	6-1	UA 1483	6-2
UA 1292	17-1	UA 1357	3-1	UA 1415	5-1	UA 1487	1-25
UA 1292	17-3	UA 1359	23-3	UA 1416	5-2	UA 1488	3-1
UA 1293	17-4	UA 1363	23-4	UA 1417	6-2	UA 1489	3-1
UA 1294	17-3	UA 1366	20-2	UA 1418	5-2	UA 1490	3-1
UA 1295	17-2	UA 1367	20-2	UA 1419	5-2	UA 1491	4-2
UA 1296	17-3	UA 1368	12-1	UA 1420	5-2	UA 1492	23-4
UA 1297	17-3	UA 1369	23-5	UA 1421	5-2	UA 1493	1-25
UA 1298	17-4	UA 1370	23-5	UA 1422	5-2	UA 1494	7-3
UA 1299	17-2	UA 1371	1-8	UA 1423	5-2	UA 1495	4-3
UA 1300	17-5	UA 1374	1-5	UA 1424	5-2	UA 1496	4-3
UA 1301	17-5	UA 1374	10-1	UA 1425	5-2	UA 1497	4-3
UA 1302	17-5	UA 1375	10-1	UA 1426	6-3	UA 1498	4-3
UA 1303	17-5	UA 1376	10-1	UA 1426	3-1	UA 1499	1-25
UA 1303	17-6	UA 1377	10-1	UA 1427	6-2	UA 1500	1-25
UA 1304	17-5	UA 1379	10-2	UA 1428	6-2	UA 1501	1-25
UA 1305	17-5	UA 1379	11-1	UA 1429	6-2	UA 1502	2-1
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UA 1307	17-6	UA 1381	11-3	UA 1431	6-2	UA 1504	2-1
UA 1308	17-5	UA 1382	11-3	UA 1432	4-1	UA 1505	2-3
UA 1309	17-3	UA 1383	1-5	UA 1433	4-1	UA 1506	2-3
UA 1310	10-2	UA 1383	11-2	UA 1434	4-1	UA 1508	1-19
UA 1310	17-5	UA 1384	1-5	UA 1435	4-1	UA 1509	7-5
UA 1310	24-1	UA 1384	11-2	UA 1436	4-1	UA 1510	7-3
UA 1313	15-9	UA 1385	11-1	UA 1437	4-1	UA 1511	7-5
UA 1314	15-9	UA 1386	11-1	UA 1438	24-1	UA 1512	2-2
UA 1315	15-8	UA 1387	10-1	UA 1439	4-2	UA 1513	9-1
UA 1316	15-8	UA 1388	11-1	UA 1440	4-2	UA 1513	11-1
UA 1332	20-2	UA 1389	11-1	UA 1441	4-2	UA 1517	2-2
UA 1333	17-1	UA 1390	23-6	UA 1442	4-1	UA 1518	2-2
UA 1333	17-2	UA 1391	23-6	UA 1443	1-25	UA 1519	5-1
UA 1333	19-1	UA 1392	23-6	UA 1444	1-25	UA 1520	5-1
UA 1333	19-2	UA 1393	7-6	UA 1445	1-25	UA 1521	24-1
		UA 1395	7-6	UA 1446	1-25	UA 1523	2-3
		UA 1396	7-5	UA 1447	1-25	UA 1524	1-3
		UA 1397	7-2	UA 1448	1-25	UA 1525	1-3



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DIE No	PAGE	DIE No	PAGE	DIE No	PAGE	DIE No	PAGE
UA 1526	1-1	UA 1596	16-2	UA 1662	1-8	UA 1941	23-5
UA 1527	1-1	UA 1597	16-2	UA 1663	23-2	UA 1942	10-3
UA 1528	1-4	UA 1598	16-4	UA 1671	1-6	UA 1943	10-3
UA 1529	1-3	UA 1600	16-2	UA 1672	15-8	UA 1948	2-2
UA 1530	1-3	UA 1605	6-2	UA 1678	23-2	UA 1950	23-4
UA 1531	1-3	UA 1606	6-2	UA 1679	23-2	UA 1951	23-7
UA 1532	1-1	UA 1607	1-18	UA 1680	1-15	UA 1952	23-7
UA 1533	1-3	UA 1608	6-1	UA 1711	1-1	UA 1958	1-23
UA 1534	1-3	UA 1609	1-5	UA 1712	1-2	UA 1966	1-13
UA 1535	1-3	UA 1609	10-1	UA 1713	1-5	UA 1967	1-23
UA 1536	1-10	UA 1609	11-1	UA 1714	1-23	UA 1968	1-13
UA 1537	1-10	UA 1609	15-5	UA 1731	1-3	UA 1969	1-13
UA 1538	1-15	UA 1610	11-1	UA 1732	1-3	UA 1974	1-3
UA 1540	1-15	UA 1611	11-1	UA 1737	1-13	UA 1979	1-10
UA 1542	1-13	UA 1612	1-1	UA 1738	10-1	UA 1987	1-23
UA 1543	1-23	UA 1613	1-1	UA 1764	1-8	UA 1988	1-10
UA 1544	1-23	UA 1614	1-4	UA 1765	1-8	UA 1988	19-1
UA 1545	1-23	UA 1615	1-4	UA 1768	1-14	UA 1993	2-3
UA 1546	1-8	UA 1616	1-5	UA 1769	1-14	UA 1994	2-3
UA 1547	1-9	UA 1617	1-5	UA 1788	15-8	UA 1998	1-8
UA 1550	1-20	UA 1618	1-20	UA 1806	1-5	UA 2000	23-3
UA 1551	1-19	UA 1619	1-14	UA 1809	20-1	UA 2001	1-13
UA 1552	1-19	UA 1620	1-24	UA 1810	1-8	UA 2006	1-8
UA 1553	1-19	UA 1621	1-24	UA 1820	21-1	UA 2009	1-21
UA 1554	1-20	UA 1622	8-3	UA 1821	21-1	UA 2027	1-13
UA 1555	1-21	UA 1623	8-1	UA 1822	21-1	UA 2027	22-4
UA 1556	1-21	UA 1624	8-2	UA 1824	21-1	UA 2028	1-13
UA 1557	1-21	UA 1627	8-1	UA 1848	21-1	UA 2029	1-19
UA 1560	1-5	UA 1628	8-2	UA 1854	16-2	UA 2030	1-12
UA 1561	1-5	UA 1629	8-2	UA 1855	18-2	UA 2032	20-3
UA 1562	1-6	UA 1633	21-2	UA 1857	1-3	UA 2033	20-3
UA 1563	1-6	UA 1635	21-1	UA 1862	1-6	UA 2038	1-17
UA 1564	1-6	UA 1639	1-25	UA 1864	10-2	UA 2039	23-3
UA 1565	1-6	UA 1640	5-3	UA 1864	9-4	UA 2046	16-5
UA 1566	1-6	UA 1641	25-1	UA 1867	16-2	UA 2047	16-5
UA 1567	1-5	UA 1642	1-8	UA 1868	1-17	UA 2048	1-4
UA 1568	1-5	UA 1642	9-1	UA 1869	1-8	UA 2062	15-8
UA 1569	1-24	UA 1642	25-1	UA 1875	6-3	UA 2071	1-1
UA 1572	12-1	UA 1643	23-4	UA 1877	1-20	UA 2078	1-4
UA 1573	1-5	UA 1649	10-2	UA 1912	1-8	UA 2080	20-3
UA 1573	7-6	UA 1650	1-8	UA 1915	2-2	UA 2085	1-19
UA 1573	15-10	UA 1651	1-3	UA 1916	1-13	UA 2086	23-2
UA 1574	4-2	UA 1652	1-6	UA 1921	1-19	UA 2094	1-8
UA 1575	4-2	UA 1653	1-7	UA 1922	8-1	UA 2095	1-8
UA 1577	4-3	UA 1654	1-5	UA 1923	1-11	UA 2096	19-3
UA 1581	7-3	UA 1655	1-5	UA 1924	1-13	UA 2097	19-3
UA 1583	7-5	UA 1656	1-6	UA 1925	16-2	UA 2098	19-3
UA 1584	7-3	UA 1657	1-13	UA 1926	1-3	UA 2106	1-10
UA 1593	16-2	UA 1658	1-15	UA 1927	1-13	UA 2115	20-3
UA 1594	16-4	UA 1659	1-15	UA 1928	1-13		
UA 1595	16-2	UA 1661	12-1	UA 1934	15-2		

DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED.
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NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

Edition 18 - 2021

DIE No	PAGE	DIE No	PAGE	DIE No	PAGE	DIE No	PAGE
UA 2131	18-2	UA 2502	1-1	UA 2812	1-1	UA 3004	1-23
UA 2131	19-2	UA 2503	1-1	UA 2815	1-13	UA 3005	1-23
UA 2132	18-2	UA 2510	1-24	UA 2830	1-23	UA 3006	23-3
UA 2132	19-2	UA 2516	23-7	UA 2848	1-3	UA 3016	23-1
UA 2154	23-1	UA 2526	2-3	UA 2852	23-7	UA 3019	1-14
UA 2164	19-2	UA 2527	2-2	UA 2875	5-1	UA 3031	1-3
UA 2167	1-1	UA 2563	2-2	UA 2879	12-6	UA 3045	1-11
UA 2169	1-6	UA 2580	3-1	UA 2885	12-1	UA 3059	1-23
UA 2170	1-8	UA 2589	23-2	UA 2895	2-1	UA 3061	1-6
UA 2197	4-1	UA 2590	22-1	UA 2898	1-14	UA 3066	1-10
UA 2210	1-14	UA 2599	1-3	UA 2899	23-5	UA 3067	1-10
UA 2218	6-3	UA 2622	2-1	UA 2906	23-3	UA 3068	1-9
UA 2220	1-13	UA 2626	1-19	UA 2907	5-3	UA 3069	1-10
UA 2221	23-3	UA 2651	21-1	UA 2916	26-2	UA 3071	1-23
UA 2229	23-1	UA 2654	1-10	UA 2917	26-2	UA 3079	5-3
UA 2238	21-1	UA 2665	1-15	UA 2918	26-2	UA 3088	17-2
UA 2244	1-5	UA 2666	1-15	UA 2919	26-2	UA 3089	1-1
UA 2245	1-15	UA 2675	2-2	UA 2920	26-2	UA 3097	22-2
UA 2247	27-1	UA 2684	1-19	UA 2921	26-2	UA 3098	22-2
UA 2249	1-21	UA 2687	5-3	UA 2922	26-2	UA 3100	1-3
UA 2250	1-20	UA 2696	1-10	UA 2937	1-19	UA 3101	12-2
UA 2251	23-6	UA 2714	1-1	UA 2938	1-20	UA 3102	12-2
UA 2268	1-14	UA 2722	1-13	UA 2940	1-20	UA 3130	1-6
UA 2295	1-3	UA 2728	2-3	UA 2941	1-21	UA 3133	21-1
UA 2323	4-2	UA 2733	1-21	UA 2942	1-14	UA 3141	1-13
UA 2357	1-11	UA 2737	1-20	UA 2943	1-3	UA 3147	5-3
UA 2359	6-3	UA 2739	1-14	UA 2943	22-4	UA 3153	1-19
UA 2369	17-6	UA 2740	1-13	UA 2944	1-10	UA 3154	1-19
UA 2370	17-6	UA 2741	7-5	UA 2945	1-10	UA 3164	12-1
UA 2378	1-3	UA 2757	1-20	UA 2946	1-10	UA 3178	1-9
UA 2379	1-14	UA 2758	1-14	UA 2947	1-5	UA 3178	18-2
UA 2397	1-20	UA 2760	1-14	UA 2948	1-6	UA 3204	2-4
UA 2400	15-9	UA 2772	1-15	UA 2949	1-8	UA 3205	2-4
UA 2435	27-1	UA 2776	1-3	UA 2950	1-14	UA 3206	1-6
UA 2436	27-1	UA 2783	1-13	UA 2955	3-1	UA 3209	15-9
UA 2437	1-23	UA 2785	5-2	UA 2959	1-5	UA 3212	5-1
UA 2461	1-10	UA 2786	1-14	UA 2971	1-8	UA 3213	5-1
UA 2462	23-6	UA 2787	1-23	UA 2972	5-1	UA 3216	1-15
UA 2463	7-7	UA 2799	2-1	UA 2975	1-11	UA 3219	23-7
UA 2464	1-6	UA 2800	2-1	UA 2982	20-1	UA 3226	1-5
UA 2465	1-14	UA 2801	2-1	UA 2983	1-25	UA 3227	1-5
UA 2466	1-8	UA 2803	1-5	UA 2984	1-4	UA 3228	1-5
UA 2467	1-8	UA 2804	1-6	UA 2985	10-1	UA 3229	2-4
UA 2482	23-6	UA 2805	1-4	UA 2987	22-2	UA 3230	2-4
UA 2483	23-6	UA 2806	1-10	UA 2988	22-2	UA 3266	23-2
UA 2486	1-10	UA 2807	1-11	UA 2995	1-17	UA 3267	23-7
UA 2487	1-8	UA 2808	1-8	UA 2999	22-1	UA 3295	21-1
UA 2487	19-3	UA 2809	1-9	UA 3000	22-1	UA 3298	1-8
UA 2491	2-2	UA 2810	1-10	UA 3002	22-1	UA 3299	1-11
		UA 2811	1-10	UA 3003	1-23	UA 3300	1-11



DIAGRAMS ACTUAL SIZE UNLESS
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Edition 1B - 2021

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DIE No	PAGE	DIE No	PAGE	DIE No	PAGE	DIE No	PAGE
UA 3306	1-20	UA 3703	23-3	UA 4153	1-13	UA 4589	1-4
UA 3321	1-17	UA 3714	2-3	UA 4173	21-2	UA 4592	23-4
UA 3328	7-1	UA 3722	1-15	UA 4175	17-6	UA 4626	7-2
UA 3339	1-3	UA 3723	1-15	UA 4203	12-8	UA 4627	1-9
UA 3344	1-10	UA 3724	1-15	UA 4204	12-8	UA 4628	1-12
UA 3346	1-9	UA 3747	5-1	UA 4205	12-8	UA 4629	1-12
UA 3347	19-3	UA 3768	1-5	UA 4206	12-8	UA 4630	1-12
UA 3348	19-3	UA 3769	23-1	UA 4224	1-23	UA 4631	1-11
UA 3349	19-3	UA 3785	1-3	UA 4225	1-19	UA 4635	1-10
UA 3350	1-9	UA 3786	1-10	UA 4230	12-6	UA 4651	23-7
UA 3361	1-10	UA 3811	5-1	UA 4231	12-6	UA 4661	1-8
UA 3369	1-21	UA 3812	2-1	UA 4234	1-23	UA 4662	1-8
UA 3403	8-1	UA 3813	1-24	UA 4255	2-1	UA 4663	1-9
UA 3404	8-1	UA 3822	1-15	UA 4302	1-9	UA 4664	1-9
UA 3408	1-21	UA 3825	1-9	UA 4316	1-12	UA 4688	1-4
UA 3418	5-2	UA 3830	2-2	UA 4362	15-8	UA 4708	1-15
UA 3419	1-11	UA 3861	1-4	UA 4363	15-8	UA 4711	7-8
UA 3431	12-7	UA 3870	1-4	UA 4364	15-8	UA 4712	1-20
UA 3442	12-7	UA 3871	8-1	UA 4382	23-7	UA 4718	21-1
UA 3453	1-13	UA 3872	8-2	UA 4389	1-25	UA 4721	1-10
UA 3464	1-13	UA 3873	8-4	UA 4394	7-8	UA 4722	1-15
UA 3465	23-2	UA 3874	8-3	UA 4395	7-8	UA 4727	1-15
UA 3467	8-2	UA 3875	8-3	UA 4403	4-1	UA 4737	19-2
UA 3479	1-21	UA 3892	1-14	UA 4405	8-1	UA 4743	1-11
UA 3482	1-5	UA 3920	17-2	UA 4406	8-2	UA 4772	1-10
UA 3493	7-1	UA 3921	17-3	UA 4407	8-4	UA 4780	1-15
UA 3504	1-3	UA 3922	17-4	UA 4408	8-3	UA 4806	1-10
UA 3515	1-20	UA 3923	17-2	UA 4409	8-2	UA 4826	1-15
UA 3519	1-14	UA 3929	10-1	UA 4410	8-4	UA 4832	1-9
UA 3537	1-4	UA 3939	1-17	UA 4411	8-3	UA 4833	1-10
UA 3538	1-13	UA 3942	1-13	UA 4412	8-1	UA 4837	17-2
UA 3546	1-11	UA 3943	5-3	UA 4413	8-2	UA 4849	1-10
UA 3575	1-24	UA 3989	20-2	UA 4414	8-1	UA 4862	14-4
UA 3585	1-11	UA 3990	20-2	UA 4425	1-14	UA 4863	14-4
UA 3586	1-11	UA 4007	19-2	UA 4428	1-20	UA 4864	17-2
UA 3592	10-2	UA 4050	23-4	UA 4430	1-21	UA 4870	1-13
UA 3595	19-1	UA 4062	1-8	UA 4473	23-7	UA 4903	5-3
UA 3595	19-2	UA 4075	1-9	UA 4476	16-7	UA 4907	17-6
UA 3596	19-2	UA 4076	1-9	UA 4477	1-11	UA 4908	17-6
UA 3597	19-2	UA 4077	1-5	UA 4478	1-14	UA 4909	17-4
UA 3614	1-5	UA 4077	10-1	UA 4485	1-23	UA 4910	17-4
UA 3614	10-1	UA 4078	1-8	UA 4493	1-3	UA 4911	17-4
UA 3615	1-5	UA 4091	1-8	UA 4517	1-23	UA 4917	14-2
UA 3616	18-1	UA 4111	10-3	UA 4528	14-1	UA 4977	1-12
UA 3616	18-2	UA 4112	10-1	UA 4532	14-4	UA 4980	23-2
UA 3616	19-1	UA 4121	1-13	UA 4533	14-4	UA 4981	1-10
UA 3617	19-1	UA 4122	1-14	UA 4535	14-4	UA 4997	1-14
UA 3617	19-2	UA 4123	1-20	UA 4556	1-3		
UA 3619	1-10	UA 4130	23-3	UA 4576	17-6		
UA 3640	1-20	UA 4133	12-8	UA 4577	17-6		
UA 3641	1-20	UA 4134	12-8	UA 4587	23-5		
UA 3660	1-12	UA 4138	1-14	UA 4588	23-5		

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Edition 18 - 2021

DIE No	PAGE	DIE No	PAGE	DIE No	PAGE	DIE No	PAGE
UA 4998	1-23	UA 5303	1-6	UA 5814	7-9	UA 6394	18-2
UA 5006	7-7	UA 5335	1-4	UA 5815	1-8	UA 6395	19-3
UA 5018	12-6	UA 5336	16-4	UA 5818	1-15	UA 6396	19-1
UA 5022	12-6	UA 5337	16-4	UA 5831	14-4	UA 6397	18-2
UA 5029	1-11	UA 5346	16-3	UA 5832	14-4	UA 6401	12-1
UA 5032	12-5	UA 5354	12-3	UA 5833	14-4	UA 6430	12-3
UA 5033	12-5	UA 5355	12-3	UA 5840	1-13	UA 6432	1-13
UA 5045	16-4	UA 5361	1-10	UA 5844	1-23	UA 6451	1-10
UA 5051	1-10	UA 5362	1-10	UA 5854	1-1	UA 6453	15-10
UA 5058	1-6	UA 5402	23-5	UA 5861	1-8	UA 6454	15-10
UA 5059	14-2	UA 5430	20-3	UA 5889	5-4	UA 6455	15-10
UA 5064	1-15	UA 5438	1-14	UA 5904	1-8	UA 6465	1-11
UA 5099	1-7	UA 5442	12-7	UA 5906	1-8	UA 6468	1-4
UA 5105	1-13	UA 5444	1-15	UA 5909	1-10	UA 6494	1-6
UA 5148	22-2	UA 5453	1-12	UA 5910	1-3	UA 6526	12-3
UA 5149	22-2	UA 5461	1-9	UA 5917	16-3	UA 6542	15-8
UA 5150	22-2	UA 5462	1-21	UA 5918	16-3	UA 6553	6-1
UA 5165	1-15	UA 5489	1-10	UA 5918	16-6	UA 6556	22-4
UA 5169	1-10	UA 5489	18-2	UA 5928	16-5	UA 6567	7-2
UA 5170	1-15	UA 5504	1-3	UA 5928	16-7	UA 6578	1-8
UA 5171	1-14	UA 5505	1-1	UA 5937	1-14	UA 6585	19-2
UA 5172	1-14	UA 5526	10-2	UA 5938	1-3	UA 6608	14-5
UA 5179	5-4	UA 5534	11-2	UA 5939	1-14	UA 6609	14-5
UA 5180	1-15	UA 5535	12-7	UA 5945	1-15	UA 6611	7-2
UA 5183	7-4	UA 5536	12-7	UA 5949	15-10	UA 6668	1-21
UA 5187	1-7	UA 5537	11-2	UA 5949	18-1	UA 6709	1-15
UA 5195	1-20	UA 5540	1-5	UA 5966	20-1	UA 6722	1-23
UA 5199	1-14	UA 5545	12-6	UA 5971	10-2	UA 6723	1-23
UA 5214	1-5	UA 5546	12-6	UA 6054	1-20	UA 6724	1-24
UA 5216	1-10	UA 5563	10-4	UA 6074	6-1	UA 6725	1-25
UA 5234	12-7	UA 5626	12-6	UA 6084	1-15	UA 6748	1-20
UA 5236	5-3	UA 5632	10-1	UA 6148	1-10	UA 6749	1-20
UA 5237	5-2	UA 5633	11-2	UA 6153	7-8	UA 6750	1-20
UA 5238	1-23	UA 5633	9-1	UA 6157	1-14	UA 6758	12-3
UA 5242	1-11	UA 5634	11-3	UA 6167	1-20	UA 6759	1-17
UA 5251	1-6	UA 5635	11-2	UA 6168	1-21	UA 6770	5-4
UA 5265	1-14	UA 5636	11-1	UA 6169	1-21	UA 6771	5-4
UA 5275	7-7	UA 5637	11-1	UA 6173	1-23	UA 6784	7-6
UA 5277	1-23	UA 5638	11-1	UA 6214	16-3	UA 6821	1-21
UA 5278	1-23	UA 5642	1-14	UA 6246	11-2	UA 6836	10-3
UA 5279	1-1	UA 5655	10-1	UA 6249	1-8	UA 6837	1-11
UA 5280	1-20	UA 5672	4-2	UA 6250	1-12	UA 6856	2-4
UA 5281	1-20	UA 5673	4-2	UA 6260	1-23	UA 6856	18-1
UA 5282	1-21	UA 5699	11-2	UA 6292	1-15	UA 6857	18-1
UA 5283	5-1	UA 5720	1-11	UA 6323	14-5	UA 6859	18-2
UA 5286	1-8	UA 5721	1-9	UA 6324	14-5	UA 6860	12-3
UA 5299	1-9	UA 5723	1-6	UA 6341	23-1	UA 6861	23-3
UA 5302	1-6	UA 5756	1-5	UA 6354	1-20	UA 6862	23-3
		UA 5768	12-6	UA 6382	16-3	UA 6876	12-3
		UA 5790	1-19	UA 6388	7-5	UA 6877	1-1
		UA 5813	1-25	UA 6393	18-2	UA 6877	2-4



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DIE No	PAGE	DIE No	PAGE	DIE No	PAGE	DIE No	PAGE
UA 6878	1-6	UA 7086	19-1	UA 7269	15-2	UA 7613	18-1
UA 6878	2-1	UA 7087	19-1	UA 7269	15-4	UA 7613	21-4
UA 6879	2-4	UA 7088	19-1	UA 7270	15-4	UA 7628	1-24
UA 6880	2-4	UA 7089	19-1	UA 7271	15-4	UA 7654	18-1
UA 6887	8-4	UA 7090	19-1	UA 7272	15-4	UA 7655	18-1
UA 6892	7-9	UA 7091	19-1	UA 7273	15-1	UA 7656	18-1
UA 6920	1-14	UA 7092	18-2	UA 7274	15-3	UA 7657	18-1
UA 6929	1-6	UA 7094	14-5	UA 7275	15-3	UA 7672	1-11
UA 6933	1-9	UA 7095	14-5	UA 7276	15-6	UA 7694	18-1
UA 6934	1-22	UA 7096	14-5	UA 7277	15-6	UA 7694	21-4
UA 6935	1-22	UA 7102	1-15	UA 7278	15-6	UA 7702	16-5
UA 6936	1-22	UA 7103	1-15	UA 7279	15-6	UA 7710	10-3
UA 6937	1-22	UA 7104	1-15	UA 7280	15-6	UA 7713	23-3
UA 6938	1-22	UA 7106	1-19	UA 7281	15-6	UA 7714	1-10
UA 6939	1-22	UA 7107	1-20	UA 7282	15-6	UA 7715	10-3
UA 6941	1-22	UA 7117	1-10	UA 7283	15-6	UA 7726	14-1
UA 6942	1-22	UA 7133	1-21	UA 7284	15-5	UA 7742	15-2
UA 6943	1-22	UA 7134	1-21	UA 7285	15-5	UA 7743	15-4
UA 6944	1-22	UA 7168	1-11	UA 7286	15-6	UA 7773	12-8
UA 6945	1-22	UA 7169	1-11	UA 7287	15-6	UA 7774	12-8
UA 6946	1-22	UA 7170	1-8	UA 7320	1-16	UA 7778	16-6
UA 6947	1-22	UA 7171	1-6	UA 7329	22-2	UA 7785	15-3
UA 6948	1-22	UA 7172	2-2	UA 7330	1-16	UA 7787	1-15
UA 6949	1-22	UA 7173	1-17	UA 7339	1-17	UA 7788	12-8
UA 6950	22-3	UA 7174	1-17	UA 7340	1-16	UA 7803	1-13
UA 6951	22-3	UA 7175	1-17	UA 7350	1-16	UA 7827	8-3
UA 6952	22-3	UA 7176	1-17	UA 7360	1-16	UA 7828	8-4
UA 6953	22-3	UA 7177	5-2	UA 7370	1-16	UA 7829	8-2
UA 6954	22-3	UA 7198	12-4	UA 7380	1-16	UA 7837	14-3
UA 6955	22-3	UA 7223	1-15	UA 7390	1-16	UA 7840	15-4
UA 6956	22-3	UA 7237	23-7	UA 7400	1-5	UA 7868	14-1
UA 6957	22-4	UA 7250	15-1	UA 7401	14-1	UA 7891	5-4
UA 6958	22-4	UA 7251	15-1	UA 7404	1-20	UA 7892	5-4
UA 6959	22-4	UA 7252	15-1	UA 7409	1-6	UA 7893	1-11
UA 6965	1-23	UA 7253	15-3	UA 7410	1-16	UA 7893	5-4
UA 6969	22-4	UA 7254	15-3	UA 7416	1-9	UA 7894	1-7
UA 6970	22-4	UA 7255	15-3	UA 7420	1-16	UA 7919	14-5
UA 6971	22-4	UA 7256	15-5	UA 7425	12-2	UA 7922	14-2
UA 6975	14-1	UA 7257	15-5	UA 7430	1-16	UA 7923	14-2
UA 7007	10-2	UA 7258	15-1	UA 7433	1-6	UA 7924	14-2
UA 7007	9-4	UA 7259	15-1	UA 7435	1-16	UA 7925	14-2
UA 7008	9-4	UA 7260	15-1	UA 7440	1-16	UA 7935	1-11
UA 7008	10-2	UA 7261	15-1	UA 7446	16-6	UA 7937	14-3
UA 7023	16-7	UA 7262	15-1	UA 7447	16-6	UA 7948	9-1
UA 7024	16-7	UA 7263	15-1	UA 7450	1-16	UA 7949	9-1
UA 7025	15-10	UA 7264	15-5	UA 7452	12-4	UA 7950	9-1
UA 7069	1-23	UA 7265	15-5	UA 7454	1-10	UA 7951	9-1
UA 7070	23-1	UA 7266	15-5	UA 7461	12-4	UA 7988	9-1
UA 7071	23-1	UA 7267	15-2	UA 7524	1-12	UA 7989	9-1
UA 7072	5-3	UA 7268	15-2	UA 7525	1-9	UA 7990	9-1
UA 7085	21-2	UA 7268	15-4	UA 7584	14-4	UA 7991	9-1

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Edition 18 - 2021

DIE No	PAGE	DIE No	PAGE	DIE No	PAGE	DIE No	PAGE
UA 8370	10-4						
UA 8560	22-4						
UA 8767	22-4						
UA 9027	1-14						
UA 9028	1-19						
UA 9032	1-22						
UA 9033	1-22						
UA 9034	1-22						
UA 9081	15-2						
UA 9082	15-2						
UA 9083	15-2						
UA 9084	15-4						
UA 9085	15-4						
UA 9086	15-4						
UA 9087	13-1						
UA 9088	13-1						
UA 9089	13-1						
UA 9090	13-1						
UA 9091	13-1						
UA 9098	18-1						
UA 9102	18-1						
UA 9108	1-13						
UA 9129	1-5						
UA 9147	19-3						
UA 9156	1-4						
UA 10062	10-4						
UA 10063	10-4						
UA 10064	10-4						
UA 10414	19-1						
UA 10415	19-1						
UA 10423	19-1						
UA 10424	19-1						
UA 10440	1-3						
UA 10444	21-2						
UA 10581	1-2						
UA 10596	13-2						
UA 10596	13-3						
UA 10597	13-2						
UA 10598	13-2						
UA 10599	13-2						
UA 10600	13-3						
UA 10855	10-4						
SOLID FREE	1-18						
MACHINING ROD							



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EQUAL ANGLE
 UNEQUAL ANGLE
 CHANNEL
 SQUARE HOLLOW
 RECTANGULAR HOLLOW
 EXTRUDED ROUND TUBE
 DRAWN ROUND TUBE
 SOLID ROUND
 SOLID SQUARE
 SOLID HEXAGON
 SOLID FREE MACHINING ROD
 FLAT BAR
 MACHINING FLAT BAR
 TEE
 TOP HAT
 ZED
 I BEAM
 HALF ROUND
 COPE MOULD

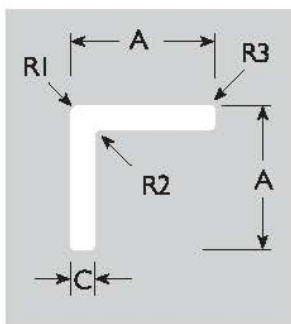
NOTE: RED INDICATES
 = MILL RUN ONLY =
 NON-STOCKED ITEM

MINIMUM ORDER
 QUANTITY 200KG

CONTACT YOUR LOCAL
 BRANCH TO ENQUIRE

DIAGRAMS ACTUAL SIZE UNLESS
 OTHERWISE INDICATED.
 DIAGRAMS ARE SCHEMATIC ONLY
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 OAD = OVERALL DIMENSIONS
 P = EXT PERIPHERY
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R = Radiused corner

**NOTE: RED INDICATES
= MILL RUN ONLY =
NON-STOCKED ITEM**

**MINIMUM ORDER
QUANTITY 200KG**

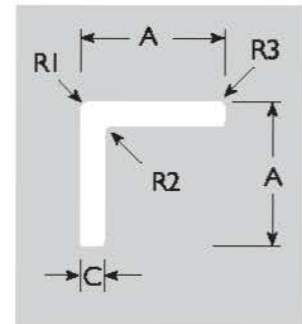
**CONTACT YOUR LOCAL
BRANCH TO ENQUIRE**

DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
UA 2071	10.00		1.60					0.080	40
UA 1090	12.00		1.60					0.097	48
UA 1097	12.00		3.00					0.170	48
UA 1091	15.00		1.60					0.123	60
UA 1092	20.00		1.60					0.166	80
UA 1101	20.00		3.00					0.299	80
UA 5505	22.00		1.60					0.183	88
UA 1094	25.00		1.60					0.210	100
UA 1103	25.00		3.00					0.382	100
UA 1113	25.00		4.50					0.555	100
UA 1121	25.00		6.00					0.715	100
UA 1096	30.00		1.60					0.253	120
UA 1105	30.00		3.00					0.463	120
UA 1612	30.00		4.50					0.677	120
UA 1532	30.00		6.00					0.875	120
UA 2503	30.00		6.00		3.00	1.50	F	0.850	113
UA 5854	32.00		3.00		0.50	0.50	0.50	0.494	127
UA 2812	35.00		4.50					0.799	140
UA 6877	38.00		1.45					0.291	152
UA 1613	38.10		4.75					0.919	152
UA 1099	40.00		1.60					0.340	160
UA 1107	40.00		3.00					0.626	160
UA 1114	40.00		4.50					0.920	160
UA 1122	40.00		6.00					1.203	160
UA 2502	40.00		6.00		3.00	1.50	F	1.178	153
UA 1100	50.00		1.60					0.426	200
UA 2714	50.00		2.00					0.531	200
UA 1110	50.00		3.00					0.785	200
UA 5279	50.00		4.00		0.50	0.50	0.50	1.036	199
UA 1116	50.00		4.50					1.160	200
UA 1123	50.00		6.00					1.523	200
UA 3089	50.00		6.00		0.50	6.00	0.50	1.543	197
UA 1129	50.00		9.00					2.219	200
UA 1711	60.00		6.00					1.853	240
UA 1124	65.00		6.00					2.016	260
UA 2167	75.00		3.00					1.195	300
UA 1526	75.00		4.50					1.768	300
UA 1126	75.00		6.00					2.341	300
UA 1527	75.00		9.00					3.426	300



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DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
UA 1712	80.00		6.00					2.504	320
UA 1127	90.00		6.00					2.829	360
UA 1118	100.00		6.00					3.143	400
UA 10581	100.00		10.00		0.80	0.50	0.80	5.128	399



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**MINIMUM ORDER
QUANTITY 200KG**

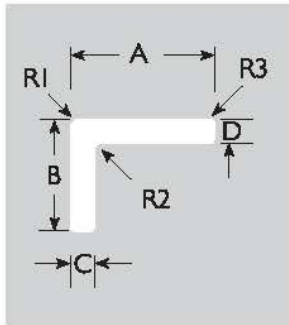
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MR = MILL RUN ONLY - NON-STOCKED ITEM - MINIMUM ORDER 200KG

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NON-STOCKED ITEM**

**MINIMUM ORDER
QUANTITY 200KG**

**CONTACT YOUR LOCAL
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DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
UA 1533	19.05	9.53	1.59					0.116	57
UA 1731	20.00	12.00	1.60					0.131	64
UA 1102	22.00	12.00	3.00					0.252	68
UA 5504	22.00	18.00	1.60					0.166	80
UA 1534	22.23	9.53	1.59					0.130	64
UA 1093	25.00	12.00	1.60					0.153	74
UA 1535	25.00	12.00	3.00					0.276	74
UA 1857	25.00	19.00	1.20					0.138	88
UA 1732	25.00	20.00	1.60					0.187	90
UA 1529	25.00	20.00	3.00					0.340	90
UA 3339	30.00	12.00	4.50	0.50		0.50		0.455	83
UA 1530	30.00	20.00	1.60					0.209	100
UA 1104	30.00	20.00	3.00					0.382	100
UA 1095	30.00	25.00	1.60					0.231	110
UA 1531	30.00	25.00	2.50					0.354	110
UA 2943	32.00	20.00	1.60					0.218	104
UA 5910	32.00	25.00	3.00					0.437	114
UA 1524	38.00	25.00	3.00					0.488	126
UA 1651	40.00	12.00	1.60					0.218	104
UA 4556	40.00	12.00	3.00					0.397	104
UA 1098	40.00	20.00	1.60					0.253	120
UA 4493	40.00	20.00	3.00					0.461	120
UA 2295	40.00	20.00	4.00	0.50		0.50		0.604	119
UA 1068	40.00	25.00	1.60					0.275	130
UA 1106	40.00	25.00	3.00					0.504	130
UA 2599	42.00	25.00	2.00					0.351	134
UA 1926	50.00	20.00	1.60					0.295	140
UA 1108	50.00	20.00	3.00					0.544	140
UA 2848	50.00	25.00	1.60					0.318	150
UA 1109	50.00	25.00	3.00					0.585	150
UA 1974	50.00	30.00	1.60					0.340	160
UA 1115	50.00	40.00	4.50					1.042	180
UA 2378	60.00	30.00	6.00					1.361	180
UA 3031	60.00	30.00	6.00		3.00	1.50	F	1.336	173
UA 1111	65.00	25.00	3.00					0.707	180
UA 2776	70.00	25.00	2.00					0.504	190
UA 5938	70.00	40.00	1.60					0.468	220
UA 1112	75.00	25.00	3.00					0.788	200
UA 3785	75.00	25.00	6.00	0.50		0.50		1.522	199
UA 3504	75.00	30.00	4.50	0.50		0.50		1.220	209
UA 1525	75.00	50.00	3.00					0.988	250
UA 1117	75.00	50.00	4.50					1.469	250
UA 1125	75.00	50.00	6.00					1.935	250
UA 3100	85.00	20.00	3.00					0.826	210



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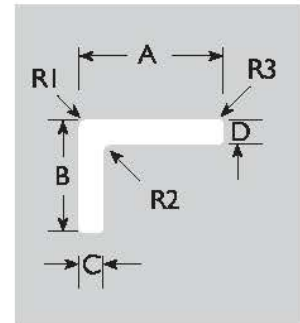
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Edition 18 - 2021

MR = MILL RUN ONLY • NON-STOCKED ITEM • MINIMUM ORDER 200KG

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DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
UA 1614	90.00	60.00	6.00					2.341	300
UA 1615	90.00	65.00	6.00					2.422	310
UA 4688	100.00	25.00	2.00					0.664	250
UA 3870	100.00	25.00	3.00					0.988	250
UA 2078	100.00	50.00	2.00					0.802	300
UA 2048	100.00	50.00	3.00					1.195	300
UA 2805	100.00	50.00	4.50					1.774	300
UA 1119	100.00	50.00	6.00					2.333	300
UA 3537	100.00	75.00	6.00	11.00	5.00	F		2.661	338
UA 3861	100.00	75.00	8.00	0.50		0.50		3.606	347
UA 1528	100.00	75.00	12.00					5.281	350
UA 5335	115.00	75.00	9.00					4.398	380
UA 2984	125.00	40.00	6.00					2.585	330
UA 4589	130.00	54.00	2.00					0.983	368
UA 9156	150.00	50.00	6.00	0.50	0.50	0.50		3.142	399
UA 6468	150.00	75.00	3.00	0.50	0.50	0.50		1.798	449
UA 1120	150.00	75.00	6.00					3.548	450
UA 1128	150.00	75.00	9.00					5.268	450



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**MINIMUM ORDER
QUANTITY 200KG**

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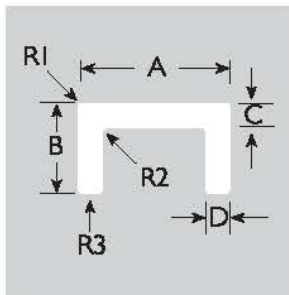
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**MINIMUM ORDER
QUANTITY 200KG**

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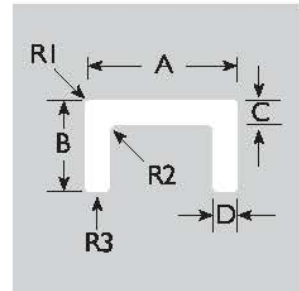
DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
UA 3768	9.50	13.00	2.40	1.60				0.153	66
UA 1130	10.00	10.00	1.60	1.60				0.116	57
UA 1374	10.00	15.00	1.60	1.50				0.151	76
UA 1713	12.00	12.00	1.60	1.60				0.142	68
UA 1134	12.00	12.00	2.50	2.50				0.210	67
UA 1131	12.00	18.00	1.60	1.60				0.193	92
UA 4077	12.00	20.00	2.50	2.50				0.317	99
UA 1383	12.50	9.00	1.30	1.30				0.093	58
UA 1384	12.50	13.00	1.30	1.20				0.120	74
UA 9129	13.50	13.50	1.50	1.50	0.50	0.50	0.50	0.152	77
UA 1609	14.50	14.50	1.35	1.35				0.149	85
UA 2803	15.10	18.10	1.80	1.80	0.90		F	0.230	97
UA 1616	16.00	8.00	1.60	1.60				0.124	61
UA 1132	16.00	11.00	1.60	1.60				0.151	72
UA 3614	16.20	16.20	1.60	1.60				0.196	94
UA 1137	17.00	12.00	3.00	3.00				0.284	76
UA 1560	17.46	31.75	2.54	2.54				0.520	157
UA 3228	18.00	22.00	2.00	2.00	1.00			0.312	119
UA 1568	19.05	19.05	2.50	2.50				0.353	109
UA 7400	20.00	18.20	1.50	1.50				0.216	109
UA 1617	20.00	20.00	3.00	3.00				0.439	114
UA 1567	22.00	12.00	1.50	1.50				0.174	89
UA 1138	22.00	22.00	3.00	3.00				0.487	126
UA 1561	22.23	12.70	1.588	1.588				0.190	92
UA 1806	24.00	13.00	1.20	1.20	1.70	0.50		0.152	96
UA 3482	25.00	12.00	3.00	3.00				0.348	92
UA 2947	25.00	20.00	1.60	1.60				0.268	126
UA 1139	25.00	22.00	3.00	3.00				0.512	132
UA 1573	25.00	25.00	1.40	1.40				0.273	148
UA 1133	25.00	25.00	1.60	1.60				0.310	146
UA 1140	25.00	25.00	3.00	3.00				0.559	144
UA 5214	25.00	27.00	8.00	6.00	0.50		0.50	1.155	141
UA 3227	25.00	50.00	2.00	2.00				0.653	246
UA 1654	25.00	50.00	3.00	3.00				0.967	244
UA 2959	29.80	50.00	2.20	2.20	0.50	0.50	0.50	0.747	254
UA 5756	30.00	15.00	2.00	2.00				0.302	115
UA 1141	30.00	25.00	3.00	3.00				0.601	154
UA 3226	30.00	50.00	2.00	2.00				0.680	256
UA 2244	32.00	20.00	3.00	3.00				0.534	137
UA 5540	32.00	30.00	3.00	1.50				0.478	178
UA 1142	40.00	12.00	3.00	3.00				0.471	122
UA 3615	40.00	16.50	1.50	1.50				0.265	143
UA 1143	40.00	20.00	3.00	3.00				0.601	154
UA 1655	40.00	25.00	3.00	3.00				0.680	174



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DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
UA 1144	45.00	25.00	3.00	3.00				0.723	184
UA 1043	47.00	17.00	1.50	1.40			F	0.307	158
UA 1145	50.00	25.00	3.00	3.00				0.764	194
UA 3061	50.00	25.00	6.00	6.00				1.425	188
UA 6494	50.00	50.00	3.00	3.00	0.50	0.50	0.50	1.166	293
UA 1562	50.80	34.92	3.175	3.175				0.980	235
UA 6878	55.00	25.00	1.45	1.45				0.399	207
UA 1148	57.00	30.00	4.00	4.00				1.181	226
UA 6929	60.00	25.00	3.00	3.00				0.842	213
UA 1563	63.50	31.75	4.763	4.763				1.510	244
UA 2169	70.00	30.00	2.50	2.50		1.00		0.848	254
UA 1671	75.00	25.00	3.00	3.00				0.964	244
UA 1862	75.00	40.00	3.00	3.00				1.207	304
UA 1147	75.00	40.00	4.50	4.50				1.774	301
UA 5251	75.00	40.00	6.00	6.00	0.50	0.50	0.50	2.316	297
UA 1149	75.00	40.00	6.00	8.00				2.693	298
UA 1565	75.00	50.00	4.50	4.50				2.017	341
UA 1656	75.00	50.00	6.00	6.00				2.650	338
UA 1564	76.20	19.05	3.18	3.18				0.930	222
UA 5303	76.20	38.10	6.35	7.92		7.62		2.731	285
UA 2948	80.00	25.00	3.00	3.00				1.008	254
UA 3206	87.60	45.00	4.50	4.50				2.048	346
UA 1150	90.00	40.00	6.00	8.00				2.937	328
UA 7409	99.00	25.00	2.00	2.00	0.50	0.50	0.50	0.782	292
UA 1135	100.00	25.00	3.00	3.00				1.170	294
UA 7171	100.00	38.00	3.00	3.00				1.376	345
UA 1136	100.00	40.00	3.00	3.00				1.414	354
UA 3130	100.00	50.00	3.00	3.00				1.571	394
UA 1146	100.00	50.00	4.50	4.50				2.320	391
UA 1566	100.00	50.00	6.00	6.00				3.056	388
UA 1652	100.00	50.00	6.00	8.00				3.534	388
UA 2464	100.00	50.00	6.00	8.00	8.00	6.00		3.488	376
UA 5723	101.60	50.80	6.35	7.90	0.50	0.50	0.50	3.638	392
UA 7433	111.00	27.00	2.00	2.00				0.869	325
UA 2804	120.00	65.00	12.00	12.00	0.50	0.50	0.50	7.349	475
UA 5302	125.00	50.00	4.00	8.00	2.00	2.00	2.00	3.328	436
UA 5058	125.00	50.00	6.00	8.00	0.50	0.50	0.50	3.925	437



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**MINIMUM ORDER
QUANTITY 200KG**

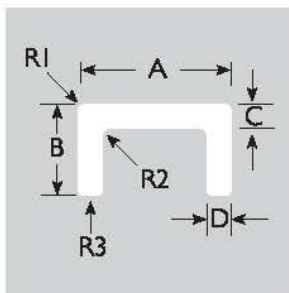
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DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
UA 5187	140.00	55.00	6.00	8.00	0.50	5.00	0.50	4.413	483
UA 7894	142.00	75.00	6.00	6.00	0.50	0.50	0.50	4.535	571
UA 1653	150.00	75.00	6.00	8.00				5.410	588
UA 5099	160.00	60.00	6.00	9.00	0.50	3.00	0.50	5.226	545

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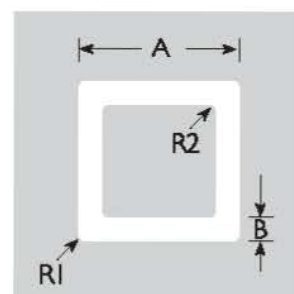
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DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
UA 1206	12.00	1.60						0.180	48
UA 2095	12.60	1.50						0.181	50
UA 1662	16.00	1.50						0.235	64
UA 1371	19.00	1.50						0.283	76
UA 1869	19.00	1.50			2.00	0.50		0.275	73
UA 5286	19.00	1.80			1.50			0.329	74
UA 1810	19.09	1.20						0.233	76
UA 1207	20.00	1.60			1.00			0.317	78
UA 5861	20.00	3.00			3.00	3.00		0.551	75
UA 1050	25.00	1.40						0.358	100
UA 1650	25.00	1.40			1.60	1.00		0.355	98
UA 4091	25.00	1.40			3.00	1.60		0.342	95
UA 1765	25.00	1.60			1.00			0.402	99
UA 1210	25.00	1.80						0.452	100
UA 1912	25.00	1.80			2.40			0.438	96
UA 5906	25.00	2.00						0.496	100
UA 2170	25.00	3.00						0.713	100
UA 4661	25.00	3.00			3.00	3.00		0.713	95
UA 1546	25.00	4.50						0.996	100
UA 2467	25.00	5.00			2.50			1.066	96
UA 1998	25.40	0.90			0.50			0.238	101
UA 1642	25.40	1.20						0.313	102
UA 1205	30.00	1.60						0.493	120
UA 2094	31.55	2.40						0.765	126
UA 5815	32.00	1.80			3.80	2.00		0.563	122
UA 2006	32.00	2.00						0.648	128
UA 5904	32.00	3.00			3.00			0.919	123
UA 2971	32.00	3.60						1.108	128
UA 4078	35.00	2.00						0.713	140
UA 2487	35.00	4.50			0.50	0.50		1.482	140
UA 7170	38.00	1.60			2.00			0.620	149
UA 1764	40.00	1.80			1.00			0.743	159
UA 1211	40.00	2.00						0.821	155
UA 1212	40.00	2.00			2.40			0.807	156
UA 6578	40.00	3.00			0.50	0.50		1.199	160
UA 4062	40.00	3.00			3.00			1.178	155
UA 4662	40.00	3.00			3.00	2.00		1.187	155
UA 2808	40.00	4.00						1.561	160
UA 6249	40.00	4.00			3.00			1.534	155
UA 2466	40.00	5.00			2.50			1.876	156
UA 1049	45.00	2.00						0.929	180
UA 1208	50.00	1.60			1.00			0.834	199
UA 2949	50.00	2.00						1.037	200
UA 3298	50.00	2.00			4.00	2.00		1.009	194



R = Radiused corner

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NON-STOCKED ITEM**

**MINIMUM ORDER
QUANTITY 200KG**

**CONTACT YOUR LOCAL
BRANCH TO ENQUIRE**

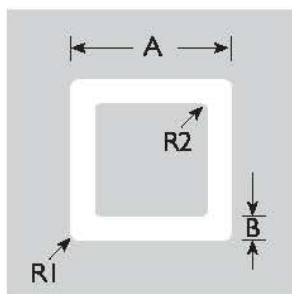
DIAGRAMS ACTUAL SIZE UNLESS
OTHERWISE INDICATED.
DIAGRAMS ARE SCHEMATIC ONLY
AND NOT INTENDED AS
SPECIFICATION DRAWINGS.
Q1418 = OVERALL DIMENSIONS
P = EXT PERIPHERY
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Edition | 8 - 2021



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**MINIMUM ORDER
QUANTITY 200KG**

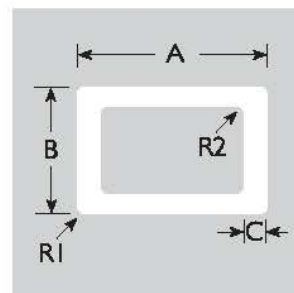
**CONTACT YOUR LOCAL
BRANCH TO ENQUIRE**

DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
UA 5461	50.00	2.00			6.00	4.00		0.990	190
UA 1214	50.00	3.00						1.523	200
UA 4663	50.00	3.00			3.00	3.00		1.523	195
UA 3178	50.00	3.00			4.00	1.00		1.488	194
UA 2809	50.00	4.00						1.994	200
UA 3068	50.00	5.00			4.00	4.00		2.439	194
UA 5299	50.80	3.20			3.00	3.00		1.645	199
UA 3346	60.00	3.00						1.847	240
UA 4076	63.20	6.30			0.50	0.50		3.871	252
UA 4664	65.00	3.00			5.00	5.00		2.009	252
UA 1215	75.00	3.00						2.341	300
UA 4832	75.00	3.00			4.45	6.30		2.379	293
UA 7416	75.00	3.50			4.50	3.50		2.684	293
UA 1547	75.00	4.50						3.696	300
UA 6933	75.00	5.00			6.00	1.00		3.699	290
UA 4075	76.00	6.30			0.50	0.50		4.742	304
UA 1213	100.00	3.00						3.143	400
UA 3350	100.00	3.50			5.00	1.50		3.595	392
UA 4627	100.00	4.00			4.60			4.099	393
UA 3825	100.00	4.50						4.641	400
UA 4302	100.00	5.00			0.50	0.50		5.130	400
UA 5721	100.00	6.00			12.00	6.00		5.841	380
UA 7525	150.00	3.00			3.00	1.60		4.748	595



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DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
UA 7454	30.00	10.00	1.60					0.318	80
UA 2696	30.00	20.00	1.40	V GROOVED	2.00	1.00		0.349	98
UA 4981	38.00	25.00	1.60		1.00			0.514	125
UA 6148	38.00	25.00	1.80		2.50	0.70		0.564	122
UA 3619	38.00	25.00	2.00		1.00			0.635	125
UA 5051	40.00	14.90	3.00		2.50	0.50		0.778	106
UA 1988	40.00	20.00	1.60					0.491	120
UA 5489	40.00	20.00	1.60		1.80			0.483	117
UA 2811	40.00	20.00	3.00					0.875	120
UA 3361	40.00	25.00	1.60					0.534	130
UA 1979	40.00	25.00	2.00					0.659	130
UA 2944	40.00	25.00	3.00					0.959	130
UA 2806	40.00	30.00	2.50					0.877	140
UA 6451	44.00	22.00	3.00		5.00	2.00		0.923	124
UA 5361	45.00	30.00	2.00		3.00	1.00		0.748	145
UA 4806	46.50	25.40	1.60		1.00	0.80		0.593	143
UA 4772	50.00	25.00	1.60		1.60			0.614	148
UA 1197	50.00	25.00	2.50					0.948	150
UA 5909	50.00	25.00	2.50		3.00	0.50		0.925	145
UA 2945	50.00	25.00	3.00					1.122	150
UA 4635	50.00	25.00	3.00		4.00	1.00		1.083	144
UA 3067	50.00	25.00	5.00		4.00	4.00		1.762	144
UA 2654	50.00	30.00	2.00					0.824	160
UA 2461	50.00	38.00	2.00		3.00	1.00		0.889	171
UA 1200	50.00	40.00	3.00					1.361	180
UA 4721	50.00	40.00	3.00		10.00	7.00		1.243	163
UA 2810	50.00	40.00	4.00					1.771	180
UA 3066	60.00	25.00	5.00		4.00	4.00		2.033	164
UA 3069	60.00	35.00	5.00		4.00	4.00		2.295	184
UA 3344	60.00	40.00	3.00					1.523	200
UA 3786	65.00	30.00	2.50					1.215	190
UA 5169	65.00	50.00	2.50		4.00	1.50		1.453	224
UA 2486	65.00	50.00	3.00		0.50	1.00		1.770	230
UA 4849	75.00	25.00	1.60					0.836	200
UA 7117	75.00	25.00	2.20		1.00			1.133	199
UA 1537	75.00	40.00	2.00					1.199	230
UA 7714	75.00	40.00	3.00		3.00	0.50		1.746	225
UA 1204	75.00	40.00	6.00					3.350	230
UA 1536	75.00	45.00	2.00					1.253	240
UA 5362	75.00	45.00	3.00		6.00	0.50		1.784	230
UA 5216	75.00	50.00	2.50		4.00	1.50		1.588	244
UA 2946	75.00	50.00	3.00					1.935	250
UA 4833	75.00	50.00	3.00		4.45	6.30		1.974	243
UA 2106	75.00	50.00	4.00		2.00	0.80		2.529	247



R = Radiused corner

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**MINIMUM ORDER
QUANTITY 200KG**

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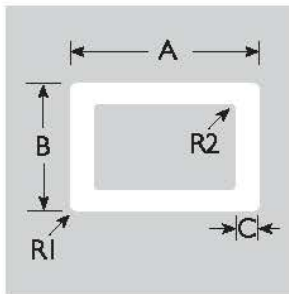
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DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
UA 3045	75.00	50.00	6.00		0.50			3.661	250
UA 7169	76.00	38.00	3.00		0.50	0.50		1.750	228
UA 7168	76.00	38.00	6.00		2.00			3.296	225
UA 7893	80.00	30.00	4.00		0.50	0.50		2.203	220
UA 5242	80.00	40.00	3.00		2.50	2.50		1.847	236
UA 3585	80.00	40.00	4.00					2.419	240
UA 2975	80.00	40.00	6.00					3.512	240
UA 6837	80.00	50.00	3.00		0.80			2.007	259
UA 3299	80.00	50.00	3.00		4.00	1.00		1.974	254
UA 3586	80.00	60.00	4.00					2.851	280
UA 1198	100.00	25.00	2.00					1.312	250
UA 7672	100.00	25.00	2.00		1.00			1.304	249
UA 5720	100.00	25.00	2.50		0.50	0.50		1.620	250
UA 1201	100.00	45.00	3.00					2.260	290
UA 2357	100.00	45.00	4.00					2.959	290
UA 6465	100.00	50.00	1.60					1.268	300
UA 3546	100.00	50.00	2.00					1.577	300
UA 7935	100.00	50.00	2.00		4.00	2.00		1.549	294
UA 1202	100.00	50.00	3.00					2.333	300
UA 4477	100.00	50.00	3.00		4.60	1.60		2.290	293
UA 4743	100.00	50.00	3.50		6.00	2.50		2.634	290
UA 2807	100.00	50.00	4.00					3.067	300
UA 4631	100.00	50.00	4.00		6.00	2.00		2.993	290
UA 1923	100.00	50.00	6.00		4.60			4.422	293
UA 5029	100.00	50.00	8.00		6.00	2.00		5.715	290
UA 3300	100.00	75.00	2.50		4.00	1.50		2.262	344
UA 1203	100.00	75.00	3.00					2.748	350
UA 3419	120.00	60.00	3.00					2.819	360



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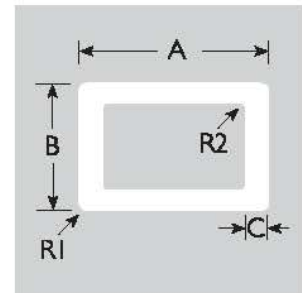
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Edition 18 - 2021

MR = MILL RUN ONLY • NON-STOCKED ITEM • MINIMUM ORDER 200KG

NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
UA 1199	125.00	50.00	3.00					2.738	350
UA 4628	125.00	50.00	4.00		6.00	2.00		3.533	340
UA 4629	125.00	50.00	6.00		8.00	2.00		5.142	337
UA 4316	150.00	50.00	3.00		5.00	2.00		3.094	392
UA 2030	150.00	50.00	4.00					4.147	400
UA 3660	150.00	50.00	5.00		10.00	5.00		4.956	383
UA 4630	150.00	50.00	6.00		8.00	2.00		5.952	387
UA 4977	152.00	76.00	6.40		6.00	3.60		7.384	446
UA 5453	152.40	76.20	4.00		4.50	0.50		4.719	450
UA 6250	200.00	50.00	3.50		1.50			4.587	498
UA 7524	250.00	50.00	3.00					4.762	600



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**MINIMUM ORDER
QUANTITY 200KG**

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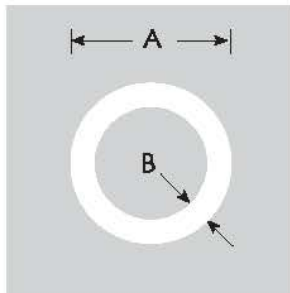
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**MINIMUM ORDER
QUANTITY 200KG**

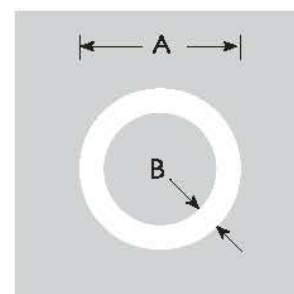
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DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
UA 1924	6.35	1.42						0.059	20
UA 1542	7.94	1.42						0.079	25
UA 1966	9.53	0.90						0.066	30
UA 1737	9.53	1.20						0.085	30
UA 1229	9.53	1.45						0.099	30
UA 1927	9.53	1.60						0.108	30
UA 9108	9.90	1.60						0.113	32
UA 2028	12.70	0.90						0.090	40
UA 3464	12.70	1.20						0.115	40
UA 1230	12.70	1.45						0.138	40
UA 4153	12.70	2.20						0.196	40
UA 5105	15.50	1.42						0.170	49
UA 2815	15.85	1.50						0.183	50
UA 3141	15.88	1.22						0.152	50
UA 1231	15.90	1.45						0.178	50
UA 2001	16.00	1.20						0.151	51
UA 2722	16.00	1.60						0.196	51
UA 1657	16.00	2.50						0.287	51
UA 1916	19.05	1.22						0.184	60
UA 1928	19.05	2.00						0.289	60
UA 1232	19.10	1.45						0.218	60
UA 1225	20.00	1.20						0.192	63
UA 1968	20.00	1.60						0.251	63
UA 7803	20.00	2.00						0.305	63
UA 4121	20.00	3.00						0.433	63
UA 3538	21.00	3.50						0.520	66
UA 2740	21.00	4.00						0.579	66
UA 1226	22.00	1.20						0.213	70
UA 1233	22.20	1.45						0.256	70
UA 6432	22.50	2.00						0.348	71
UA 2783	24.00	1.50						0.287	76
UA 1227	25.00	1.20						0.243	79
UA 1969	25.00	1.60						0.318	79
UA 1245	25.00	2.00						0.392	79
UA 1248	25.00	3.00						0.562	79
UA 2027	25.40	1.20						0.246	80
UA 1234	25.40	1.45						0.296	80
UA 3942	25.40	2.00						0.397	80
UA 5840	25.40	3.00						0.570	80
UA 4870	26.50	1.40						0.298	84
UA 1235	28.58	1.45						0.335	90
UA 2220	29.00	1.70						0.395	92
UA 1243	30.00	1.60						0.387	95
UA 1249	30.00	3.00						0.690	95
UA 3453	31.00	3.00						0.713	98



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DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
UA 2465	31.00	5.00						1.103	98
UA 1236	31.75	1.45						0.374	100
UA 5642	32.00	1.20						0.313	101
UA 2942	32.00	1.60						0.414	101
UA 2268	32.00	2.00						0.509	101
UA 2786	32.00	3.00						0.741	101
UA 3892	34.00	4.50						1.126	107
UA 1237	34.90	1.45						0.413	110
UA 2379	37.00	3.00						0.865	117
UA 2739	37.00	5.00						1.362	117
UA 2758	38.00	3.00						0.894	120
UA 3519	38.00	6.00						1.629	120
UA 1238	38.10	1.45						0.452	120
UA 5438	38.10	2.00						0.612	120
UA 2210	38.10	3.25						0.964	120
UA 4997	38.10	4.80						1.356	120
UA 6157	40.00	2.00						0.645	126
UA 1250	40.00	3.00						0.945	126
UA 1239	41.30	1.45						0.492	130
UA 1240	44.45	1.45						0.531	140
UA 5265	44.45	3.00						1.055	140
UA 1619	45.00	3.00						1.069	142
UA 2898	45.00	14.50						3.765	142
UA 1241	47.60	1.45						0.570	150
UA 9027	48.00	3.00						1.145	151
UA 4425	48.00	6.50						2.288	151
UA 1256	48.40	4.50	SCAFFOLD TUBE for TUBE & CLIP SYSTEM					1.676	153
UA 3019	48.60	2.30	RIBBED					0.905	155
UA 4138	48.60	3.35	V GROOVED					1.285	154
UA 4122	48.60	3.45						1.321	153
UA 2950	50.00	1.60						0.659	158
UA 1246	50.00	1.925						0.785	158
UA 1251	50.00	3.00						1.196	158
UA 5937	50.00	4.00						1.561	158
UA 2760	50.00	6.00						2.239	158
UA 1242	50.80	1.45						0.609	160
UA 1768	50.80	1.63						0.680	160
UA 6920	50.80	2.00						0.828	160
UA 1769	50.80	2.64						1.078	160
UA 5171	57.20	2.00						0.936	180
UA 5939	60.00	4.00						1.900	189
UA 4478	61.50	13.75						5.569	300
UA 5172	63.50	2.00						1.043	200
UA 5199	63.50	3.00						1.540	200



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QUANTITY 200KG

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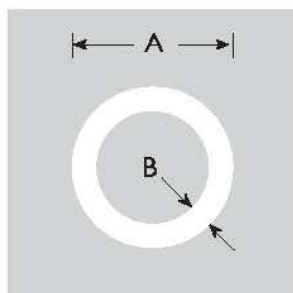
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**MINIMUM ORDER
QUANTITY 200KG**

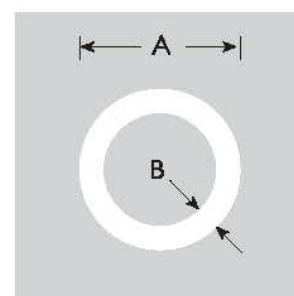
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DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
UA 2666	63.50	4.50						2.260	200
UA 1538	63.50	6.35						3.078	200
UA 5180	63.50	10.00						4.538	200
UA 1244	65.00	1.60						0.864	205
UA 1252	65.00	3.00						1.584	205
UA 4708	65.00	3.50						1.826	205
UA 1073	65.00	5.00						2.554	205
UA 1228	75.00	1.20						0.754	236
UA 1658	75.00	1.60						1.000	236
UA 1253	75.00	3.00						1.839	236
UA 2665	75.00	4.50						2.701	236
UA 4826	75.00	6.00						3.512	236
UA 5170	76.20	2.00						1.259	240
UA 4727	76.20	8.10						4.679	240
UA 2772	80.00	2.00						1.328	252
UA 5165	80.00	8.00						4.886	252
UA 6292	80.00	16.00						8.686	252
UA 1680	86.00	3.00						2.112	271
UA 5818	86.20	4.50						3.119	271
UA 1254	90.00	3.00						2.222	283
UA 1540	100.00	1.60						1.340	315
UA 3216	100.00	2.00						1.663	315
UA 1247	100.00	3.00						2.477	315
UA 1255	100.00	6.00						4.784	315
UA 5064	100.00	12.00						8.957	315
UA 2245	100.00	24.50						15.362	315
UA 3723	101.60	1.20						1.022	320
UA 6709	101.60	2.00						1.690	320
UA 4780	114.30	6.35						5.814	360
UA 4722	114.30	10.00						8.847	360
UA 1659	125.00	3.00						3.116	393
UA 3724	127.00	1.60						1.702	399
UA 5444	127.00	8.00						8.075	399
UA 5945	127.00	19.05						17.443	399
UA 3722	150.00	3.20						3.985	472
UA 6084	152.40	5.00						6.251	479
UA 7223	152.40	15.87						18.384	479
UA 7102	177.80	6.35						9.235	559
UA 7103	177.80	25.40						32.835	559
UA 7104	203.20	3.18						5.395	639
UA 3822	203.20	6.35						10.603	639
UA 7787	250.00	6.00						12.418	786



DIAGRAMS ACTUAL SIZE UNLESS
OTHERWISE INDICATED.
DIAGRAMS ARE SCHEMATIC ONLY
AND NOT INTENDED AS
SPECIFICATION DRAWINGS.
O.A.D. = OVERALL DIMENSIONS
P = EXT PERIPHERY
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DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
UA 7320	9.53	1.42						0.098	30
UA 7330	12.70	1.42						0.136	40
UA 7340	15.88	1.42						0.174	50
UA 7350	19.05	1.42						0.212	60
UA 7360	22.23	1.42						0.251	70
UA 7370	25.40	1.42						0.289	80
UA 7380	28.58	1.42						0.327	90
UA 7390	31.75	1.42						0.365	100
UA 7410	34.93	1.42						0.404	110
UA 7420	38.10	1.42						0.442	120
UA 7430	41.28	1.42						0.480	130
UA 7435	44.45	1.42						0.518	140
UA 7440	47.63	1.42						0.557	150
UA 7450	50.80	1.42						0.595	160



**NOTE: RED INDICATES
= MILL RUN ONLY =
NON-STOCKED ITEM**

**MINIMUM ORDER
QUANTITY 200KG**

**CONTACT YOUR LOCAL
BRANCH TO ENQUIRE**

CUSTOMER INFORMATION:

Drawn Tube differs slightly from extruded tube in that it undergoes an additional process of 'cold drawing' the extrusion length. This gives a more refined and accurate internal tube dimension.

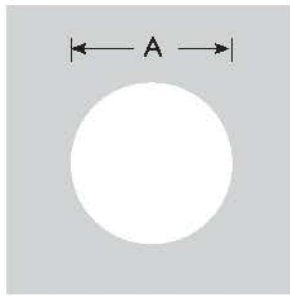
This product is the preferred solution for those requiring a 'telescopic' function to their material, with an incremental measurement that fits within the next size option.

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MR = MILL RUN ONLY • NON-STOCKED ITEM • MINIMUM ORDER 200KG
NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

Edition 18 - 2021



**NOTE: RED INDICATES
= MILL RUN ONLY =
NON-STOCKED ITEM**

**MINIMUM ORDER
QUANTITY 200KG**

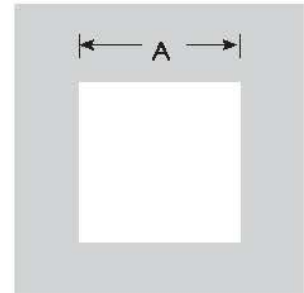
**CONTACT YOUR LOCAL
BRANCH TO ENQUIRE**

DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
UA 1271	4.76							0.048	15
UA 1270	6.35							0.086	20
UA 1269	7.94							0.134	25
UA 1258	9.50							0.193	30
UA 1259	12.70							0.343	40
UA 3321	14.50							0.446	46
UA 1260	15.88							0.536	50
UA 3939	18.00							0.687	57
UA 1261	19.05							0.772	60
UA 2038	20.00							0.851	63
UA 1262	25.40							1.373	80
UA 6759	28.00							1.663	88
UA 1263	31.75							2.146	100
UA 1264	38.10							3.090	120
UA 2995	44.40							4.205	140
UA 1265	50.80							5.493	160
UA 1266	63.50							8.582	200
UA 1267	76.20							12.359	240
UA 1868	88.90							16.759	280
UA 1257	100.00							21.284	315
UA 1268	101.60							21.971	320
UA 7173	127.00							34.203	399
UA 7174	152.40							49.252	479
UA 7175	177.80							67.037	559
UA 7176	203.20							87.559	639
UA 7339	228.60							110.817	719



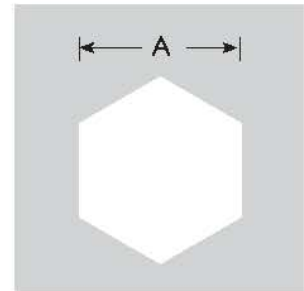
DIAGRAMS ACTUAL SIZE UNLESS
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DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
SOLID SQUARE									
UA 1279	6.35							0.109	25
UA 1272	9.50							0.244	38
UA 1273	12.70							0.437	51
UA 1274	19.05							0.983	76
UA 1275	25.40							1.748	102
UA 1276	31.75							2.732	127
UA 1277	38.10							3.934	152
UA 1278	50.80							6.993	203



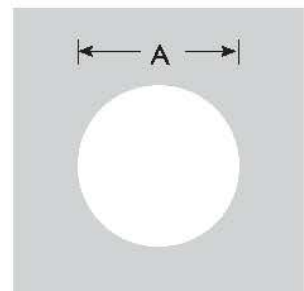
SOLID HEXAGON

UA 1607	11.11							0.290	39
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SOLID FREE MACHINING ROD

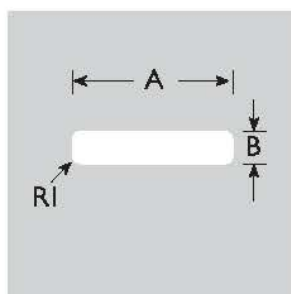
DIAM.	A	FREE MACHINING SOLID ROD 2011-T3 to T6	kg/m
	8.70		0.169
	9.53		0.202
	12.70		0.358
	15.88		0.560
	19.05		0.807
	22.22		1.098
	25.40		1.434
	31.75		2.241
	38.10		3.226
	44.45		4.392
	50.80		5.736
	63.50		8.962
	76.20		12.906
	88.90		17.566
	101.60		22.944
	127.00		35.850
	152.40		51.623
	203.20		91.775
	228.60		116.153



Free Machining Rod
In lengths up to 3000mm

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R = Radiused corner

NOTE: RED INDICATES

**= MILL RUN ONLY =
NON-STOCKED ITEM**

**MINIMUM ORDER
QUANTITY 200KG**

**CONTACT YOUR LOCAL
BRANCH TO ENQUIRE**

DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
UA 1165	10.00	2.30						0.062	25
UA 7106	11.70	2.20						0.069	28
UA 2029	12.00	1.60						0.052	27
UA 1170	12.00	3.00						0.097	30
UA 1921	12.00	3.00			F			0.092	28
UA 1179	12.00	4.50						0.146	33
UA 1551	12.00	6.00						0.195	36
UA 1171	16.00	3.00						0.130	38
UA 1004	19.00	4.50			F			0.220	44
UA 1508	19.05	2.64			1.32			0.132	42
UA 1151	20.00	1.60						0.087	43
UA 1172	20.00	3.00						0.162	46
UA 2626	20.00	4.00						0.217	48
UA 1180	20.00	4.50						0.244	49
UA 1188	20.00	6.00						0.324	52
UA 1152	25.00	1.60						0.108	53
UA 1173	25.00	3.00						0.203	56
UA 1181	25.00	4.50						0.305	59
UA 3153	25.00	5.00						0.337	60
UA 1189	25.00	6.00						0.406	62
UA 1153	25.00	10.00						0.677	70
UA 5790	25.00	10.00			F			0.617	62
UA 1159	25.00	12.00						0.813	74
UA 2085	25.00	15.00			F			0.882	68
UA 1174	30.00	3.00						0.244	66
UA 2684	30.00	3.00			F			0.239	64
UA 1552	30.00	4.50						0.364	69
UA 1190	30.00	6.00						0.488	72
UA 2937	32.00	3.00						0.268	70
UA 4225	36.00	6.00						0.583	84
UA 3154	38.00	4.50						0.461	85
UA 9028	38.00	6.00						0.615	88
UA 1175	40.00	3.00						0.325	86
UA 1182	40.00	4.50						0.488	89
UA 1191	40.00	6.00						0.650	92
UA 1154	40.00	10.00						1.084	100
UA 1160	40.00	12.00						1.301	104
UA 1164	40.00	16.00						1.734	112
UA 1176	45.00	3.00						0.366	96
UA 1553	45.00	6.00						0.731	102



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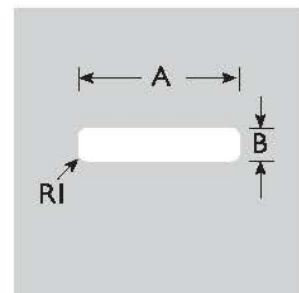
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Edition 18 - 2021

MR = MILL RUN ONLY • NON-STOCKED ITEM • MINIMUM ORDER 200KG

NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
UA 1177	50.00	3.00						0.406	106
UA 1183	50.00	4.50						0.610	109
UA 2757	50.00	4.50			2.00			0.600	106
UA 5281	50.00	5.00			0.50			0.674	110
UA 1192	50.00	6.00						0.813	112
UA 3640	50.00	6.00			F			0.789	107
UA 2737	50.00	8.00						1.084	116
UA 1155	50.00	10.00						1.350	120
UA 1161	50.00	12.00						1.626	124
UA 6054	50.00	20.00						2.700	140
UA 1167	50.00	25.00						3.387	150
UA 1877	60.00	3.00			F			0.481	124
UA 2250	60.00	4.50			F			0.717	126
UA 2397	60.00	6.00						0.971	132
UA 3641	60.00	6.00			F			0.951	127
UA 3515	60.00	10.00			F			1.562	132
UA 4712	60.00	12.00						1.944	144
UA 4428	60.00	37.50			1.00			6.073	194
UA 1193	65.00	6.00						1.053	142
UA 3306	65.00	10.00						1.755	150
UA 1162	65.00	12.00						2.114	154
UA 1178	75.00	3.00						0.610	156
UA 1184	75.00	4.50						0.914	159
UA 1194	75.00	6.00						1.215	162
UA 1618	75.00	6.00			2.40			1.206	158
UA 1156	75.00	10.00						2.025	170
UA 1163	75.00	12.00						2.439	174
UA 4123	75.00	16.00						3.239	182
UA 1554	75.00	20.00						4.065	190
UA 1168	75.00	25.00						5.081	200
UA 6354	75.00	40.00			1.50			8.095	228
UA 5195	75.00	50.00			0.50			10.124	250
UA 1550	76.20	7.94						1.639	168
UA 2938	80.00	3.00						0.650	166
UA 2940	80.00	6.00						1.301	172
UA 1074	80.00	6.00			F			1.280	167
UA 5280	80.00	8.00			0.50			1.727	176
UA 7404	80.00	10.00						2.160	180
UA 6167	80.00	12.00			0.50			2.591	184
UA 7107	80.00	15.00			0.50			3.239	190
UA 6750	80.00	16.00			2.00			3.447	189
UA 6748	80.00	20.00			2.00			4.311	197
UA 6749	80.00	25.00			2.00			5.391	207



R = Radiused corner

**NOTE: RED INDICATES
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NON-STOCKED ITEM**

**MINIMUM ORDER
QUANTITY 200KG**

**CONTACT YOUR LOCAL
BRANCH TO ENQUIRE**

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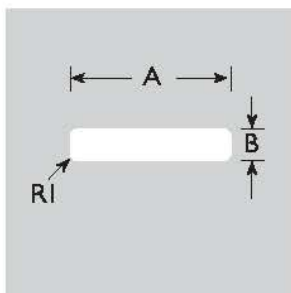
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MR = MILL RUN ONLY - NON-STOCKED ITEM - MINIMUM ORDER 200KG

NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

Edition 18 - 2021



R = Radiused corner

**NOTE: RED INDICATES
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**MINIMUM ORDER
QUANTITY 200KG**

**CONTACT YOUR LOCAL
BRANCH TO ENQUIRE**

DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
UA 2009	100.00	2.50						0.675	205
UA 1169	100.00	3.00						0.810	206
UA 3369	100.00	4.00						1.079	208
UA 1186	100.00	6.00						1.620	212
UA 6821	100.00	8.00			0.50			2.159	216
UA 1555	100.00	10.00						2.710	220
UA 1157	100.00	12.00						3.252	224
UA 6168	100.00	15.00			0.50			4.049	230
UA 1166	100.00	25.00						6.775	250
UA 1185	100.00	50.00						13.550	300
UA 5462	115.00	6.00						1.863	242
UA 1187	125.00	6.00						2.032	262
UA 2733	125.00	10.00						3.387	270
UA 1556	125.00	12.00						4.065	274
UA 6169	125.00	15.00			0.50			5.092	280
UA 2249	127.00	38.10						13.064	330
UA 5282	130.00	12.00			0.50			4.211	284
UA 3479	150.00	3.00						1.215	306
UA 6668	150.00	5.00			0.50			2.024	310
UA 1557	150.00	6.00						2.439	312
UA 7134	150.00	8.00			0.50			3.239	316
UA 7133	150.00	10.00			0.50			4.049	320
UA 1158	150.00	12.00						4.878	324
UA 2941	160.00	6.00						2.592	332
UA 3408	160.00	10.00			0.50			4.319	340
UA 4430	200.00	10.00						5.399	420



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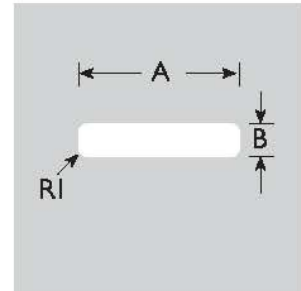
Edition 18 - 2021

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NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

MACHINING FLAT BAR 6061-T6511

DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
UA 6934	50.80	19.05			0.40			2.613	139
UA 6935	50.80	25.40			0.40			3.483	152
UA 6936	63.50	31.75			0.40			5.443	190
UA 6937	76.20	38.10			0.40			7.838	228
UA 6939	76.20	50.80			0.40			10.451	254
UA 6943	76.20	63.50			0.40			13.064	279
UA 6938	101.60	38.10			0.40			10.451	279
UA 6941	101.60	50.80			0.40			13.935	305
UA 6944	101.60	76.20			0.40			20.903	355
UA 6945	114.30	76.20			0.40			23.516	381
UA 6946	127.00	76.20			0.40			26.129	406
UA 6948	127.00	101.60			0.40			34.838	457
UA 9032	152.40	31.75			0.50			13.064	368
UA 9033	152.40	38.10			0.50			15.677	381
UA 6942	152.40	50.80			0.40			20.903	406
UA 9034	152.40	63.50			0.50			26.128	431
UA 6947	152.40	76.20			0.40			31.354	457
UA 6949	152.40	101.60			0.40			41.806	508



R = Radiused corner
Machining Flat Bar
In lengths up to 3658mm

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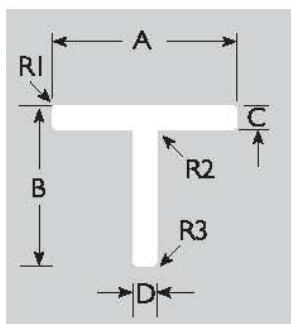
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Edition 18 - 2021



R = Radiused corner

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NON-STOCKED ITEM**

**MINIMUM ORDER
QUANTITY 200KG**

**CONTACT YOUR LOCAL
BRANCH TO ENQUIRE**

DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
UA 1216	20.00	20.00	1.60	1.60				0.167	80
UA 1217	20.00	20.00	3.00	3.00				0.301	80
UA 1543	22.22	12.70	3.17	3.17				0.272	70
UA 1987	25.00	25.00	1.60	1.60				0.210	100
UA 1218	25.00	25.00	3.00	3.00				0.382	100
UA 1967	25.00	38.00	1.20	1.20				0.201	126
UA 4224	28.00	50.00	4.00	4.00		3.00		0.809	153
UA 2830	30.00	22.00	2.00	2.00				0.271	104
UA 5278	35.00	50.00	3.00	3.00		5.00		0.692	165
UA 1544	38.10	19.05	1.59	1.59				0.238	115
UA 1219	40.00	40.00	3.00	3.00				0.626	160
UA 1545	40.00	40.00	4.50	4.50				0.917	160
UA 3071	40.00	40.00	6.00	6.00				1.198	160
UA 3003	40.00	50.00	6.00	6.00	2.00	6.00	2.00	1.394	170
UA 1344	44.50	25.50	2.50	2.50	F		F	0.452	137
UA 4485	45.00	100.00	8.00	4.00		4.00		1.983	286
UA 3059	50.00	50.00	2.00	2.00				0.529	200
UA 1958	50.00	50.00	3.00	3.00				0.788	199
UA 6260	50.00	50.00	4.00	4.00		4.00	0.50	1.054	196
UA 1220	50.00	50.00	6.00	6.00				1.528	200
UA 7069	50.00	60.00	5.10	5.00		3.00		1.432	215
UA 5277	50.00	60.00	6.00	4.00		5.00		1.421	215
UA 3004	50.00	75.00	6.00	6.00	2.00	6.00	2.00	1.956	240
UA 6723	50.00	75.00	8.00	8.00	1.00	5.00	1.00	2.553	244
UA 4517	50.00	100.00	6.00	6.00				2.332	299
UA 6173	50.00	130.00	6.00	6.00	1.00	4.00	1.00	2.834	354
UA 3005	50.00	150.00	8.00	8.00	2.00	6.00	2.00	4.175	390
UA 4998	60.00	60.00	6.00	6.00				1.846	239
UA 2787	60.00	60.00	6.00	6.00		5.00		1.882	235
UA 6722	60.00	60.00	8.00	8.00	1.00	5.00	1.00	2.445	234
UA 6965	60.00	100.00	6.00	6.00	0.50	3.00	0.50	2.504	317
UA 5238	65.00	100.00	8.00	8.00	0.50	4.00	0.50	3.409	326
UA 2437	70.00	40.00	4.00	4.00	3.50	1.00	1.00	1.135	215
UA 1714	75.00	75.00	4.50	4.50		2.00		1.772	299
UA 5844	80.00	139.00	8.00	5.00		6.00		3.537	432
UA 4234	100.00	100.00	4.76	4.76				2.509	399

Please Note:

**REFER TO SECTION 23-I
FOR ADDITIONAL SPECIALISED TEES**



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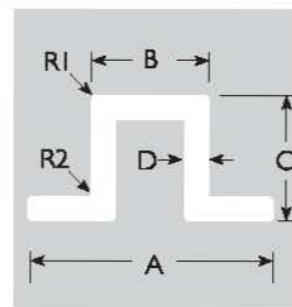
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Edition 18 - 2021

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DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
TOP HAT									
UA 1280	50.00	25.00	16.00	1.50				0.320	160
UA 1281	57.00	24.00	28.00	2.30				0.675	221
UA 6724	60.00	25.00	22.00	2.40				0.642	202
UA 1569	60.00	30.00	30.00	2.50				0.776	234
UA 1283	65.00	30.00	30.00	2.50				0.810	244
UA 2510	68.00	38.00	57.00	3.00				1.425	357
UA 1620	70.00	38.00	45.00	3.00				1.247	314
UA 1621	75.00	32.00	45.00	3.00				1.288	324
UA 3575	100.00	60.00	29.00	5.00	2.00	2.00		1.997	299
UA 3813	110.00	58.00	50.00	4.00				2.181	411
UA 1284	110.00	66.00	28.00	3.00				1.300	325
UA 1282	125.00	62.00	30.00	3.00				1.455	363
UA 7628	134.00	60.00	100.00	3.00	0.50	0.50		2.656	660



R = Radiused corner

NOTE: RED INDICATES

**= MILL RUN ONLY =
NON-STOCKED ITEM**

**MINIMUM ORDER
QUANTITY 200KG**

**CONTACT YOUR LOCAL
BRANCH TO ENQUIRE**

DIAGRAMS ACTUAL SIZE UNLESS
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SPECIFICATION DRAWINGS.
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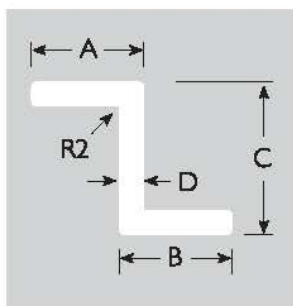
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MR = MILL RUN ONLY • NON-STOCKED ITEM • MINIMUM ORDER 200KG

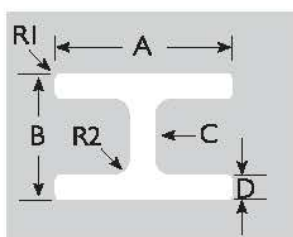
NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

Edition 18 - 2021



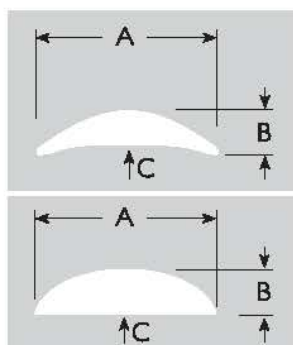
ZED

UA 1221	16.00	20.00	25.00	1.60		0.251	119
UA 2983	18.50	20.00	15.00	1.50	B LEG 2.75	0.267	104
UA 6725	19.00	19.00	25.40	2.00	3.00	0.327	118
UA 1222	20.00	20.00	25.00	3.00		0.480	124
UA 1639	25.00	19.00	17.00	1.60		0.250	118
UA 1223	25.00	25.00	30.00	3.00		0.602	154
UA 1487	31.80	31.80	152.40	3.00		1.701	426
UA 5813	40.00	48.00	55.00	6.00		2.122	273

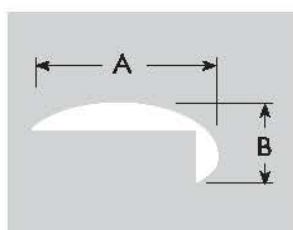


I BEAM

UA 1196	40.00	40.00	3.00	3.00		0.927	234
UA 1195	45.00	50.00	2.50	2.50		0.915	275
UA 1493	69.90	102.00	3.43	5.54	+2.9% LIP 3.00	3.083	490
UA 4389	100.00	150.00	7.10	9.50	11.10	7.926	665



DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
HALF ROUND									
UA 1443	12.50	4.50	CONCAVE					0.104	29
UA 1444	16.00	4.50	CONCAVE					0.119	36
UA 1445	19.00	4.50	CONCAVE					0.113	42
UA 1446	25.50	4.50	CONCAVE					0.149	54
UA 1447	32.00	6.00	CONCAVE					0.275	68
UA 1448	38.00	6.00	CONCAVE					0.325	79
UA 1449	51.00	6.00	FLAT					0.578	105



COPE MOULD

UA 1501	18.50	18.50						0.181	68
UA 1500	23.80	8.26						0.149	59
UA 1499	34.43	14.53						0.346	88

R = Radiused corner



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Edition 18 - 2021

MR = MILL RUN ONLY • NON-STOCKED ITEM • MINIMUM ORDER 200KG**NOTE:** Not all products are available ex-stock, check with your local branch for advice on availability.

DIE No	DESCRIPTION
UA 1474	JOINTER
UA 1502	CHANNEL
UA 1503	CHANNEL
UA 1504	CHANNEL
UA 1505	CHANNEL
UA 1506	CHANNEL
UA 1512	COVING
UA 1517	INTERNAL ANGLE
UA 1518	EXTERNAL ANGLE
UA 1523	CHANNEL
UA 1915	SCOTIA
UA 1948	INTERNAL ANGLE
UA 1993	SLIDING DOOR CHANNEL
UA 1994	SLIDING DOOR CHANNEL
UA 2491	COVING
UA 2526	CHANNEL
UA 2527	EXTERNAL ANGLE
UA 2563	COVING
UA 2622	CHANNEL
UA 2675	EXTERNAL ANGLE
UA 2728	CHANNEL
UA 2799	CHANNEL
UA 2800	CHANNEL
UA 2801	CHANNEL
UA 2895	CHANNEL
UA 3204	100mm DOOR REBATED
UA 3205	DOOR CHANNEL
UA 3229	50mm DOOR REBATED
UA 3230	75mm DOOR REBATED
UA 3714	DOOR CHANNEL
UA 3812	CHANNEL
UA 3830	EXTERNAL ANGLE
UA 4255	CHANNEL
UA 6877	ANGLE
UA 6878	CHANNEL
UA 6879	DOOR FRAME
UA 6880	DOOR FRAME
UA 7172	COVING

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MINIMUM ORDER
QUANTITY 200KG

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Edition 18 - 2021

UA 1502

CHANNEL

kg/m 0.541 P 253
OAD 53.2 x 45 x 1.6**UA 1503**

CHANNEL

kg/m 0.650 P 303
OAD 78.2 x 45 x 1.6**UA 1504**

CHANNEL

kg/m 0.758 P 353
OAD 103.2 x 45 x 1.6**UA 2622**

CHANNEL

kg/m 0.769 P 358
OAD 105.7 x 45 x 1.6**UA 2799**

CHANNEL

kg/m 0.509 P 254
OAD 54 x 45 x 1.5**UA 2800**

CHANNEL

kg/m 0.610 P 304
OAD 79 x 45 x 1.5**UA 2801**

CHANNEL

kg/m 0.712 P 354
OAD 104 x 45 x 1.5**UA 2895 (MR)**

CHANNEL

kg/m 0.495 P 215
OAD 53 x 28**UA 3812**

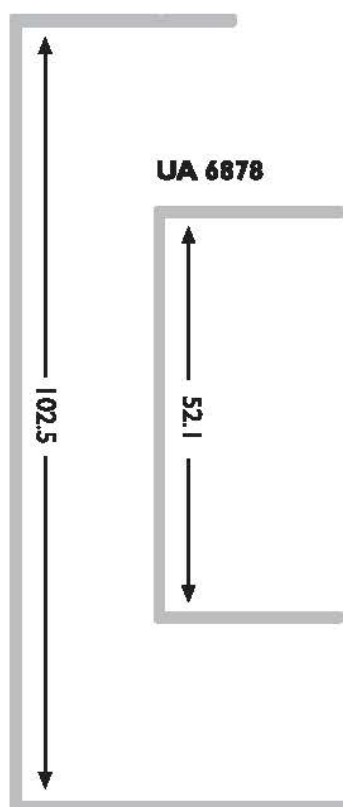
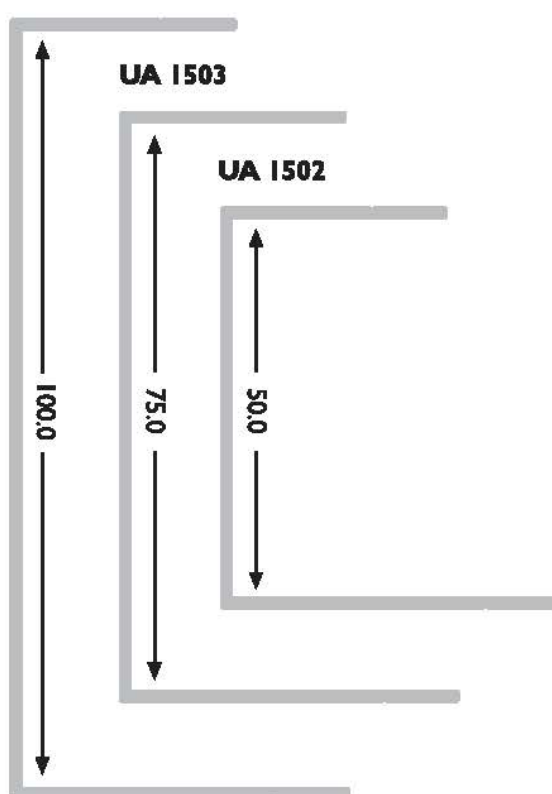
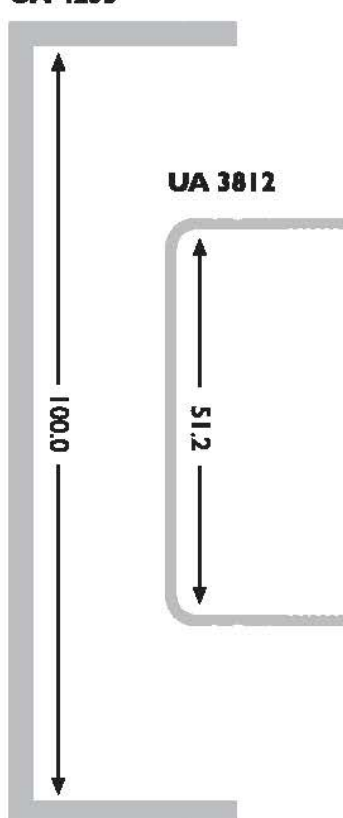
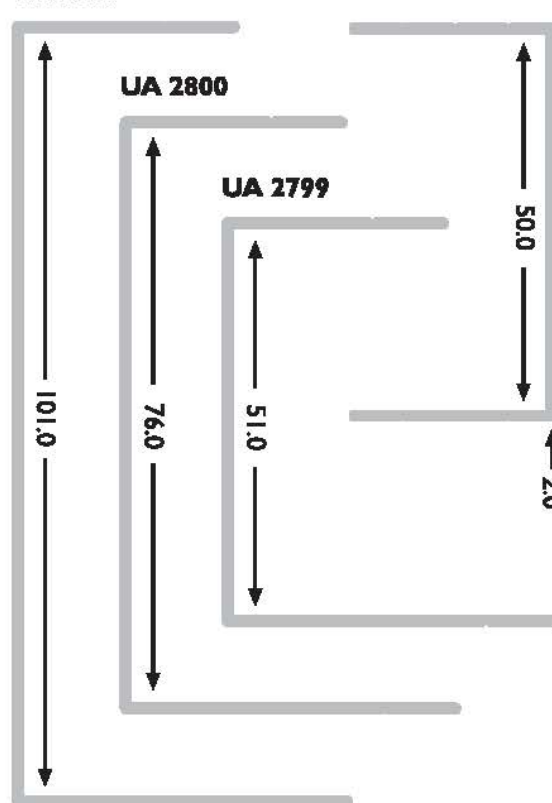
CHANNEL

kg/m 0.361 P 205
OAD 54 x 24.9**UA 4255**

CHANNEL

kg/m 1.295 P 326
OAD 106 x 30 x 3.0**UA 6878**

CHANNEL

kg/m 0.399 P 207
OAD 55 x 25 x 1.45**UA 2622****UA 1504****UA 4255****UA 2801****UA 2895**

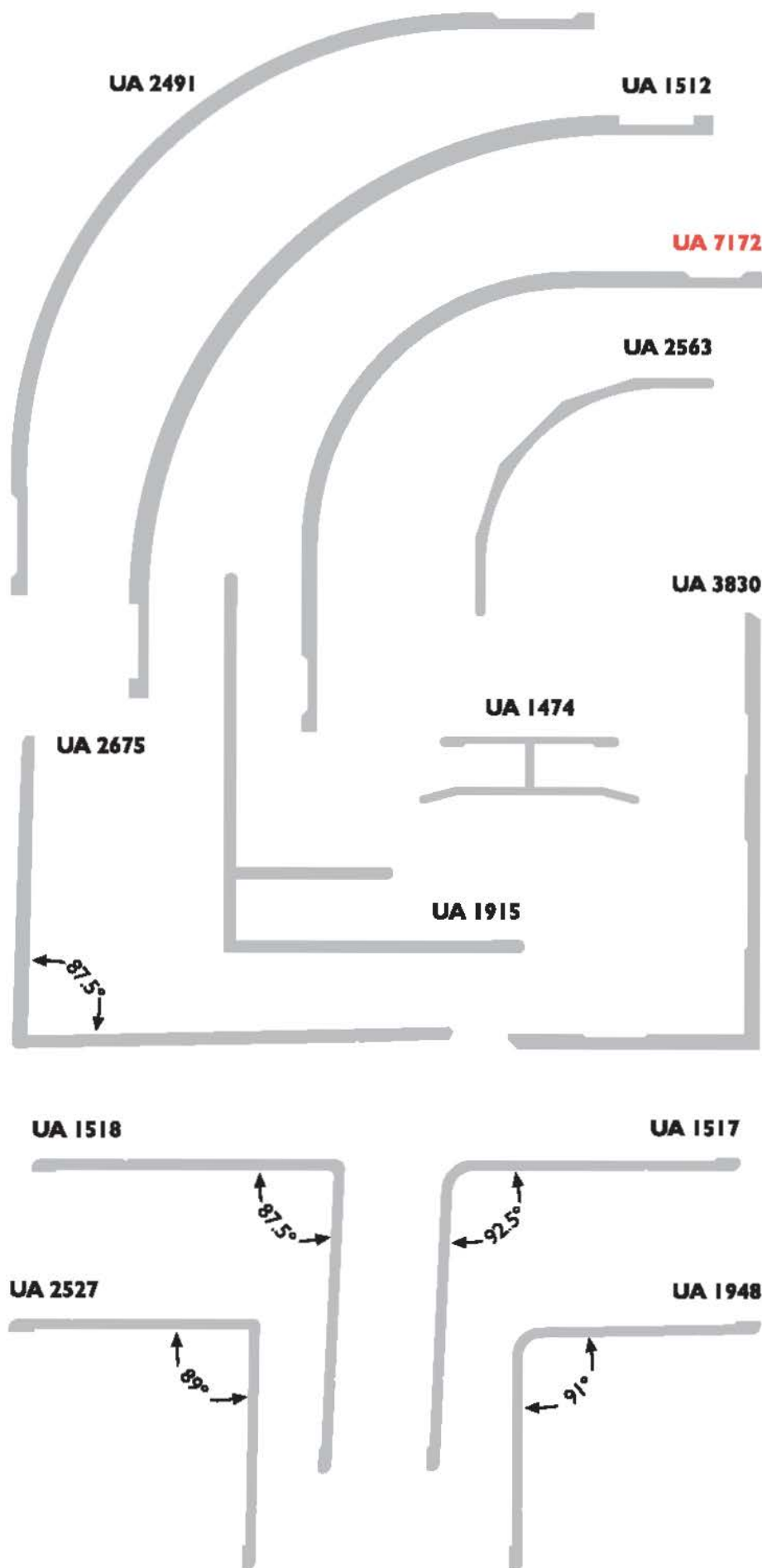
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**UA 1474**

JOINTER

kg/m 0.235 P 142

OAD 35 x 10.5

UA 1512

COVING

kg/m 1.119 P 312

OAD 93 x 93

UA 1517

INTERNAL ANGLE

kg/m 0.423 P 197

OAD 50 x 50

UA 1518

EXTERNAL ANGLE

kg/m 0.431 P 199

OAD 50 x 50

UA 1915

SCOTIA

kg/m 0.643 P 266

OAD 60.5 x 48

UA 1948

INTERNAL ANGLE

kg/m 0.314 P 155

OAD 40 x 40

UA 2491

COVING

kg/m 0.940 P 344

OAD 91.5 x 91.5

UA 2527

EXTERNAL ANGLE

kg/m 0.326 P 161

OAD 40 x 40

UA 2563

COVING

kg/m 0.274 P 127

OAD 37.95 x 37.95

UA 2675

EXTERNAL ANGLE

kg/m 0.510 P 239

OAD 70 x 50

UA 3830

EXTERNAL ANGLE

kg/m 0.516 P 220

OAD 70 x 40

UA 7172 (MR)

COVING

kg/m 0.804 P 259

OAD 73.5 x 73.5

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UA 1505

CHANNEL

kg/m 0.411 P 192

OAD 48.2 x 25 x 1.6

UA 1506

CHANNEL

kg/m 1.164 P 331

OAD 118.4 x 25

UA 1523

CHANNEL

kg/m 1.549 P 429

OAD 168 x 25

UA 1993

SLIDING DOOR CHANNEL

kg/m 2.507 P 452

OAD 97 x 50

UA 1994

SLIDING DOOR CHANNEL

kg/m 1.123 P 340

OAD 75 x 55.3

UA 2526

CHANNEL

kg/m 0.938 P 279

OAD 92.2 x 25.4

UA 2728

CHANNEL

kg/m 0.613 P 203

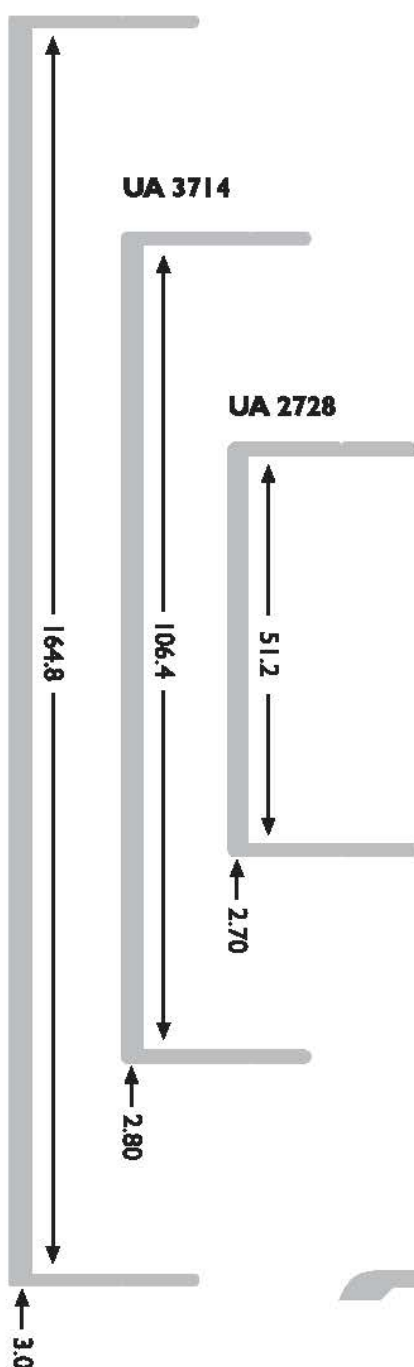
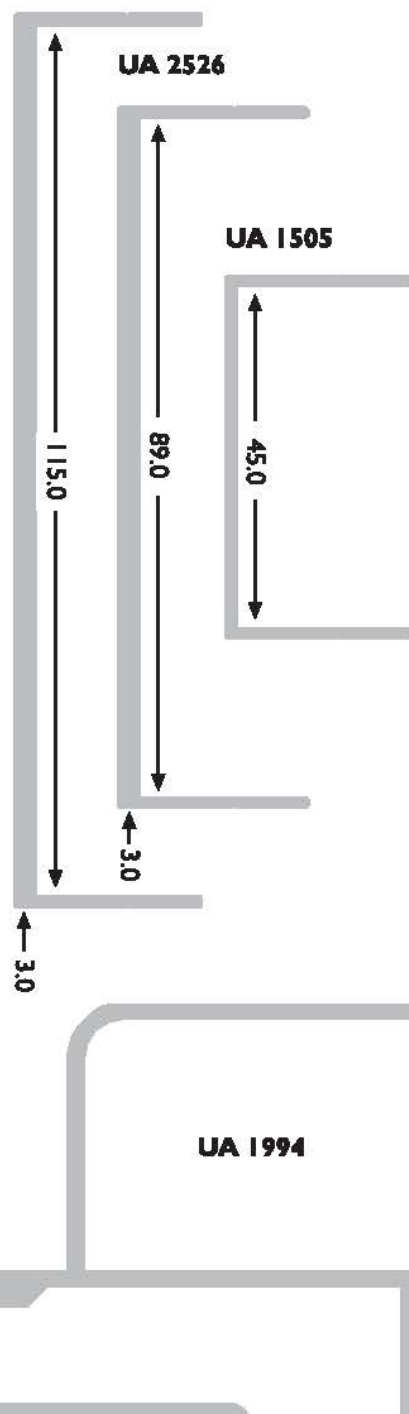
OAD 54.8 x 25

UA 3714

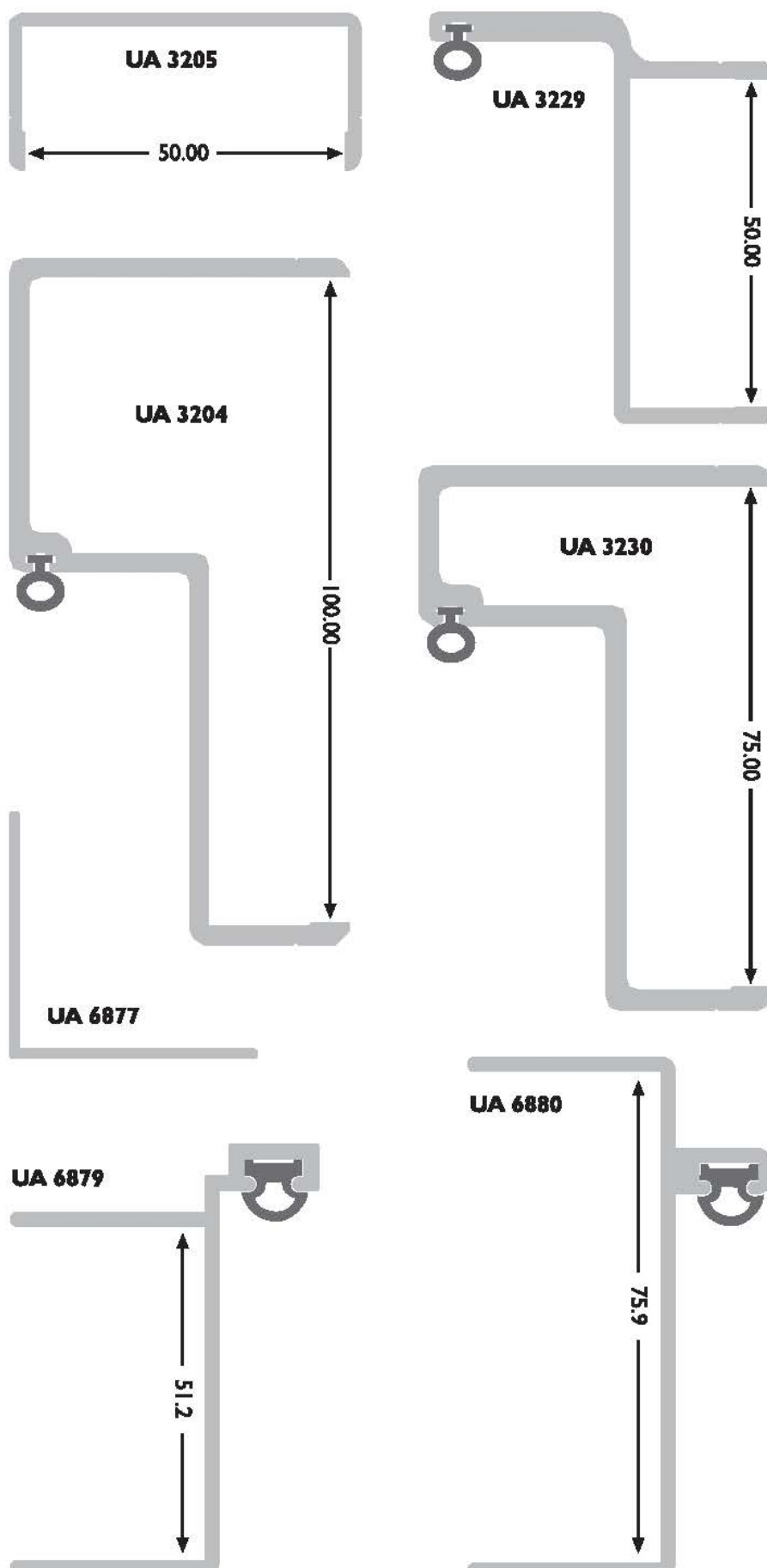
DOOR CHANNEL

kg/m 1.045 P 314

OAD 110 x 25

UA 1523**UA 1506****UA 2526****UA 1505****UA 1994****UA 1993**

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**UA 3204**

100mm DOOR REBATED
kg/m 1.406 P 445
OAD 105.8 x 52 Infill 9101

UA 3205

DOOR CHANNEL
kg/m 0.429 P 199
OAD 54 x 24

UA 3229

50mm DOOR REBATED
kg/m 0.851 P 276
OAD 63 x 52 Infill 9101

UA 3230

75mm DOOR REBATED
kg/m 1.240 P 394
OAD 80.8 x 52 Infill 9101

UA 6877

ANGLE
kg/m 0.291 P 152
OAD 38 x 38

UA 6879

DOOR FRAME
kg/m 0.882 P 298
OAD 66 x 47.3 Infill 40404

UA 6880

DOOR FRAME
kg/m 1.002 P 324
OAD 80.3 x 47.3 Infill 40404

INFILLS SOLD SEPARATELY

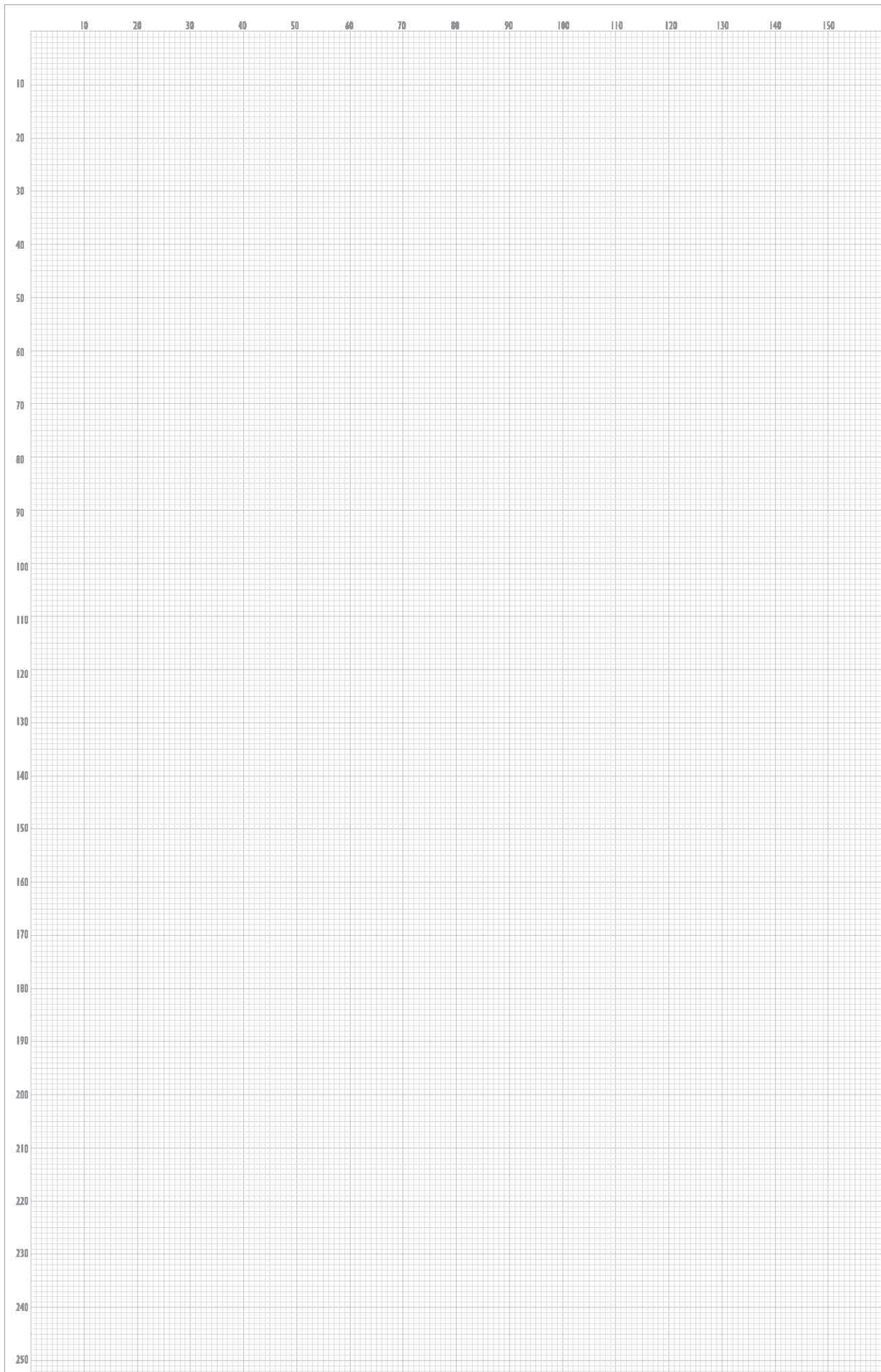
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NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

Edition 1B - 2021



DIE No	DESCRIPTION
UA 1357	INDUSTRIAL STEP
UA 1426	HERZIM THRESHOLD
UA 1488	THRESHOLD
UA 1489	THRESHOLD
UA 1490	THRESHOLD
UA 2580	THRESHOLD
UA 2955	THRESHOLD

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**MINIMUM ORDER
QUANTITY 200KG**

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UA 1357

INDUSTRIAL STEP

kg/m 1.448 P 286

OAD 96 x 22

UA 1426

HERZIM THRESHOLD

kg/m 0.819 P 215

OAD 89.5 x 9 Infill 12

UA 1488

THRESHOLD

kg/m 1.888 P 370

OAD 169 x 14.68

UA 1489

THRESHOLD

kg/m 1.022 P 229

OAD 101.6 x 13.08

UA 1490

THRESHOLD

kg/m 0.892 P 181

OAD 76.2 x 12.7

UA 2580

THRESHOLD

kg/m 0.702 P 146

OAD 60 x 12.7

UA 2955

THRESHOLD

kg/m 0.973 P 192

OAD 76.2 x 18.7

UA 2580**UA 1490****UA 2955****UA 1489****UA 1357****UA 1426****UA 1488**

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Edition 18 - 2021

INFILLS SOLD SEPARATELY

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DIE No	DESCRIPTION
UA 1432	NOSING Serrated
UA 1433	NOSING Serrated
UA 1434	NOSING Serrated
UA 1435	ANGLE Serrated
UA 1436	NOSING Castellated
UA 1437	CARPET EDGE
UA 1439	FLOORING BAR
UA 1440	CASTELLATED FLAT
UA 1441	SERRATED FLAT
UA 1442	ANGLE Serrated
UA 1491	VINYL FLOOR COPE
UA 1495	NOSING Double Round
UA 1496	NOSING Double Square
UA 1497	NOSING Single Round
UA 1498	NOSING Single Square
UA 1574	CARPET COPE
UA 1575	FLOORING EDGE
UA 1577	FLOORING BAR
UA 2197	NOSING Serrated
UA 2323	FORMICA TRIM
UA 4403	NOSING Serrated
UA 5672	TILE EDGE
UA 5673	TILE BULLNOSE

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**MINIMUM ORDER
QUANTITY 200KG**

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Edition 18 - 2021

UA 1432

NOSING Heavy Serrated
kg/m 0.419 P 154
OAD 49.86 x 27

UA 1433

NOSING Round Serrated
kg/m 0.228 P 126
OAD 33.13 x 29.5

UA 1434

NOSING Light Serrated
kg/m 0.175 P 92
OAD 35.5 x 15

UA 1435

ANGLE Serrated
kg/m 0.204 P 93
OAD 26.42 x 19

UA 1436

NOSING Castellated
kg/m 0.466 P 152
OAD 57.5 x 16

UA 1437

CARPET EDGE Serrated
kg/m 0.122 P 64
OAD 26.5 x 9

UA 1442

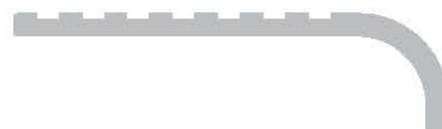
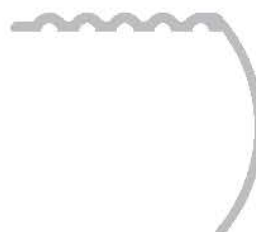
ANGLE Serrated
kg/m 0.143 P 85
OAD 20 x 20

UA 2197

NOSING Serrated
kg/m 0.506 P 230
OAD 70 x 40

UA 4403 (MR)

NOSING Serrated
kg/m 0.540 P 147
OAD 58 x 15.3

UA 1442**UA 1435****UA 1437****UA 4403****UA 1434****UA 1432****UA 1436****UA 2197****UA 1433**

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UA 1441**UA 1440****UA 1439****UA 1439**

FLOORING BAR
kg/m 0.132 P 58
OAD 25.5 x 4

UA 1575**UA 1491****UA 2323****UA 1440**

CASTELLATED FLAT
kg/m 0.244 P 96
OAD 38.4 x 3

UA 1441

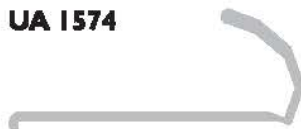
SERRATED FLAT
kg/m 0.109 P 47
OAD 18 x 3

UA 5672**UA 5673****UA 1491**

VINYL FLOOR COPE
kg/m 0.140 P 60
OAD 25.4 x 5.56

UA 1574

CARPET COPE
kg/m 0.193 P 117
OAD 38.86 x 15.99

UA 1574**UA 1575**

FLOORING EDGE
kg/m 0.140 P 54
OAD 24.3 x 3

UA 2323

FORMICA TRIM
kg/m 0.091 P 52
OAD 20.5 x 6.5

UA 5672

TILE EDGE
kg/m 0.135 P 71
OAD 24.5 x 11.5

UA 5673

TILE BULLNOSE
kg/m 0.139 P 76
OAD 24.5 x 11.10

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Edition 18 - 2021

UA 1495

NOSING Double Round
kg/m 0.558 P 235
OAD 87.6 x 28

UA 1496

NOSING Double Square
kg/m 0.566 P 234
OAD 87.6 x 28

UA 1497

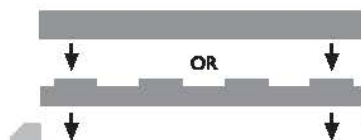
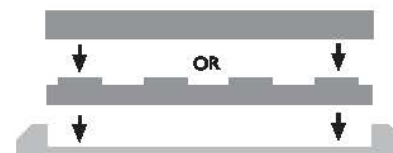
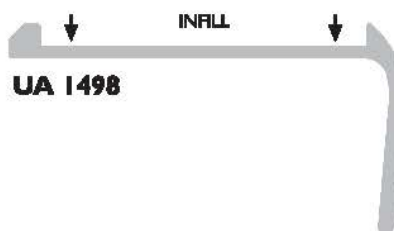
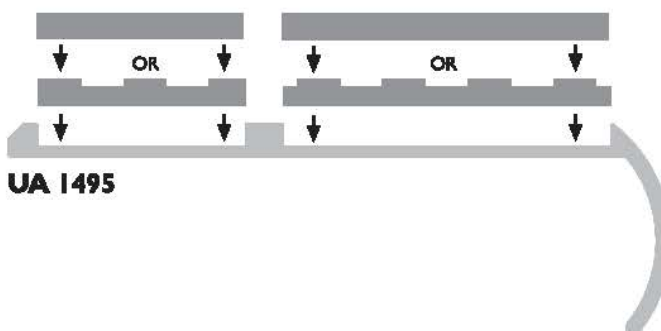
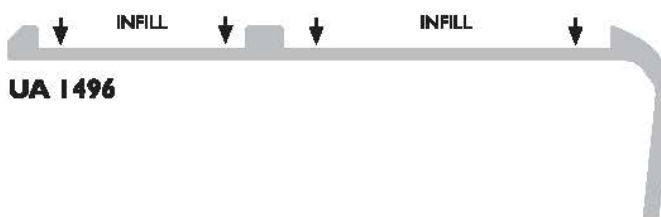
NOSING Single Round
kg/m 0.388 P 164
OAD 55.2 x 28

UA 1498

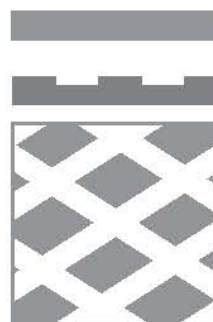
NOSING Single Square
kg/m 0.378 P 160
OAD 52.2 x 28

UA 1577

FLOORING BAR
kg/m 0.262 P 115
OAD 51.2 x 4.5

**UA 1497****UA 1577****UA 1498****UA 1495****UA 1496****NOSING INFILLS**

Designs Available
WALKSAFE - SMOOTH
AQUADEK - TREADED
Width 27mm & 42mm
Various Colours

**WALKSAFE****AQUADEK**

AQUADEK
TOP VIEW



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DIE No	DESCRIPTION
UA 1415	TOE RAIL Prepunched
UA 1416	PERSPEX JOINTER
UA 1418	PERSPEX UPRIGHT
UA 1419	PERSPEX CAP
UA 1420	PERSPEX PILLAR CAP
UA 1421	PERSPEX CAP
UA 1422	FIBREGLASS CAP
UA 1423	SAIL TRACK
UA 1424	SAIL TRACK
UA 1425	SAIL TRACK
UA 1519	TOE RAIL Prepunched
UA 1520	TOE RAIL Prepunched
UA 1640	GUNNEL
UA 2687	GUNNEL RAIL
UA 2785	PERSPEX CAP
UA 2875	KEEL
UA 2907	BOAT GUNNEL
UA 2972	BOAT RIB
UA 3079	GUNNEL
UA 3147	GUNNEL RAIL
UA 3212	KEEL
UA 3213	KEEL
UA 3418	SAIL TRACK
UA 3747	HULL PLANING STRIP
UA 3811	KEEL
UA 3943	GUNNEL
UA 4903	GUNNEL RAIL
UA 5179	HATCH SECTION
UA 5236	GUNNEL
UA 5237	PERSPEX CAP
UA 5283	BOAT RIB
UA 5889	DECK CAPPING
UA 6770	HATCH SECTION
UA 6771	HATCH SECTION
UA 7072	GUNNEL
UA 7177	LIPPED CHANNEL
UA 7891	DOOR JAMB
UA 7892	DOOR FRAME
UA 7893	DOOR TRANSOM

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QUANTITY 200KG**

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Edition 18 - 2021

UA 1415

TOE RAIL Prepunched
kg/m 1.130 P 219
OAD 65 x 50.5

UA 1519

TOE RAIL Prepunched
kg/m 2.194 P 235
OAD 69.82 x 55.54

UA 1520

TOE RAIL Prepunched
kg/m 1.158 P 210
OAD 57.1 x 50.19

UA 2875 (MR)

KEEL
kg/m 1.651 P 269
OAD 77.6 x 32.2

UA 2972 (MR)

BOAT RIB
kg/m 1.397 P 183
OAD 76.2 x 19

UA 3212

KEEL
kg/m 1.009 P 135
OAD 38.7 x 29.55

UA 3213 (MR)

KEEL
kg/m 2.105 P 214
OAD 64.3 x 45

UA 3747

HULL PLANING STRIP
kg/m 0.526 P 79
OAD 30 x 12

UA 3811 (MR)

KEEL
kg/m 1.169 P 157
OAD 40 x 30

UA 5283 (MR)

BOAT RIB
kg/m 1.691 P 228
OAD 98.7 x 18.9

UA 1519**UA 2972****UA 1415****UA 3747****UA 2875****UA 1520****UA 5283****UA 3212****UA 3811****UA 3213**

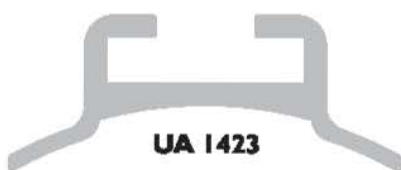
DIAGRAMS ACTUAL SIZE UNLESS
OTHERWISE INDICATED.
DIAGRAMS ARE SCHEMATIC ONLY
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SPECIFICATION DRAWINGS.
OAD = OVERALL DIMENSIONS
P = EXT PERIPHERY

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Edition 18 - 2021

MR = MILL RUN ONLY • NON-STOCKED ITEM • MINIMUM ORDER 200KG

NOTE Not all products are available ex-stock, check with your local branch for advice on availability.

**UA 1425****UA 1424****UA 1423****UA 7177****UA 1422****UA 1421****UA 3418****UA 1420****UA 1416****UA 1418****UA 1419****UA 5237****UA 2785****UA 7177**

SAIL TRACK
kg/m 1.717 P 188
OAD 50 x 20

UA 1416

PERSPEX JOINTER
kg/m 0.119 P 50
OAD 17 x 6

UA 1418

PERSPEX UPRIGHT
kg/m 0.434 P 129
OAD 25.5 x 18

UA 1419

5mm PERSPEX CAP
kg/m 0.538 P 117
OAD 25.5 x 14

UA 1420

5mm PERSPEX PILLAR CAP
kg/m 0.564 P 139
OAD 25.5 x 14

UA 1421

5mm PERSPEX CAP
kg/m 0.393 P 99
OAD 22 x 12

UA 1422

5mm FIBREGLASS CAP
kg/m 0.133 P 70
OAD 12 x 9

UA 1423

SAIL TRACK
kg/m 0.712 P 183
OAD 52 x 21

UA 1424

SAIL TRACK
kg/m 0.478 P 124
OAD 32 x 12

UA 1425

SAIL TRACK
kg/m 0.213 P 85
OAD 22 x 8

UA 2785

5.4mm PERSPEX CAP
kg/m 0.372 P 99
OAD 22 x 12

UA 3418

SAIL TRACK
kg/m 0.458 P 130
OAD 31 x 17.13

UA 5237 (MR)

5mm PERSPEX CAP
kg/m 0.175 P 67
OAD 12.7 x 9.4

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Edition 1B - 2021

UA 1640

4mm GUNNEL
kg/m 0.857 P 167
OAD 38 x 32

UA 2687

GUNNEL RAIL
kg/m 0.758 P 198
OAD 47 X 32

UA 2907 (MR)

GUNNEL RAIL
kg/m 1.107 P 260
OAD 89.88 x 16

UA 3079

4-5-4mm GUNNEL
kg/m 1.110 P 194
OAD 50 x 35

UA 3147 (MR)

GUNNEL RAIL
kg/m 0.831 P 263
OAD 65 x 40

UA 3943 (MR)

5mm GUNNEL
kg/m 1.571 P 243
OAD 60 x 45

UA 4903 (MR)

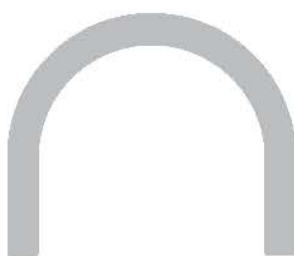
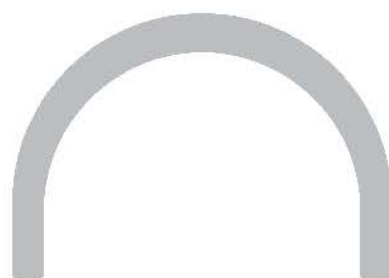
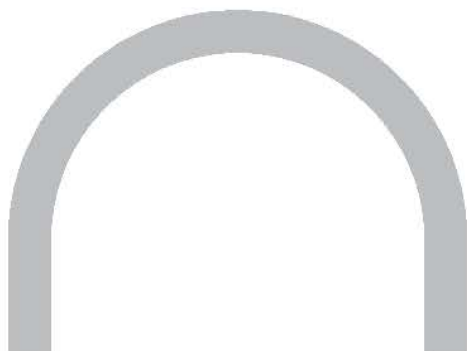
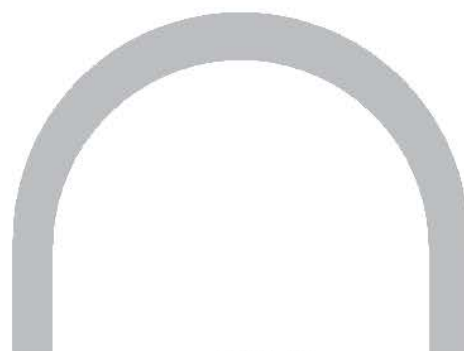
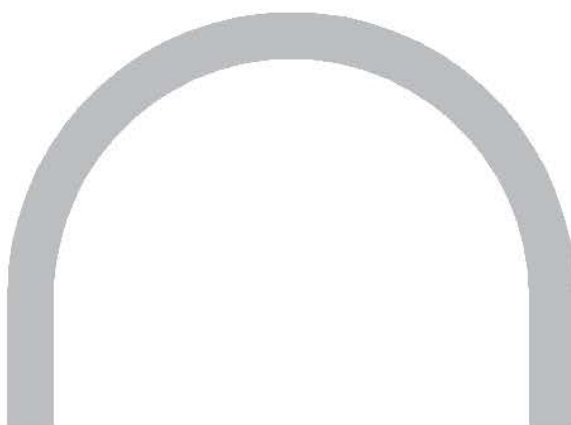
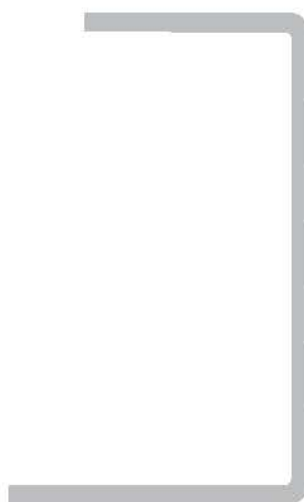
GUNNEL RAIL
kg/m 1.109 P 222
OAD 42.2 x 38
Takes 19mm Timber Fillet
(NOT AVAILABLE AT ULLRICH)

UA 5236

5-6-5mm GUNNEL
kg/m 1.706 P 240
OAD 60 x 45

UA 7072 (MR)

6mm GUNNEL
kg/m 2.322 P 298
OAD 75 x 55

UA 1640**UA 3079****UA 3943****UA 5236****UA 7072****UA 4903****UA 2907****UA 3147****UA 2687**

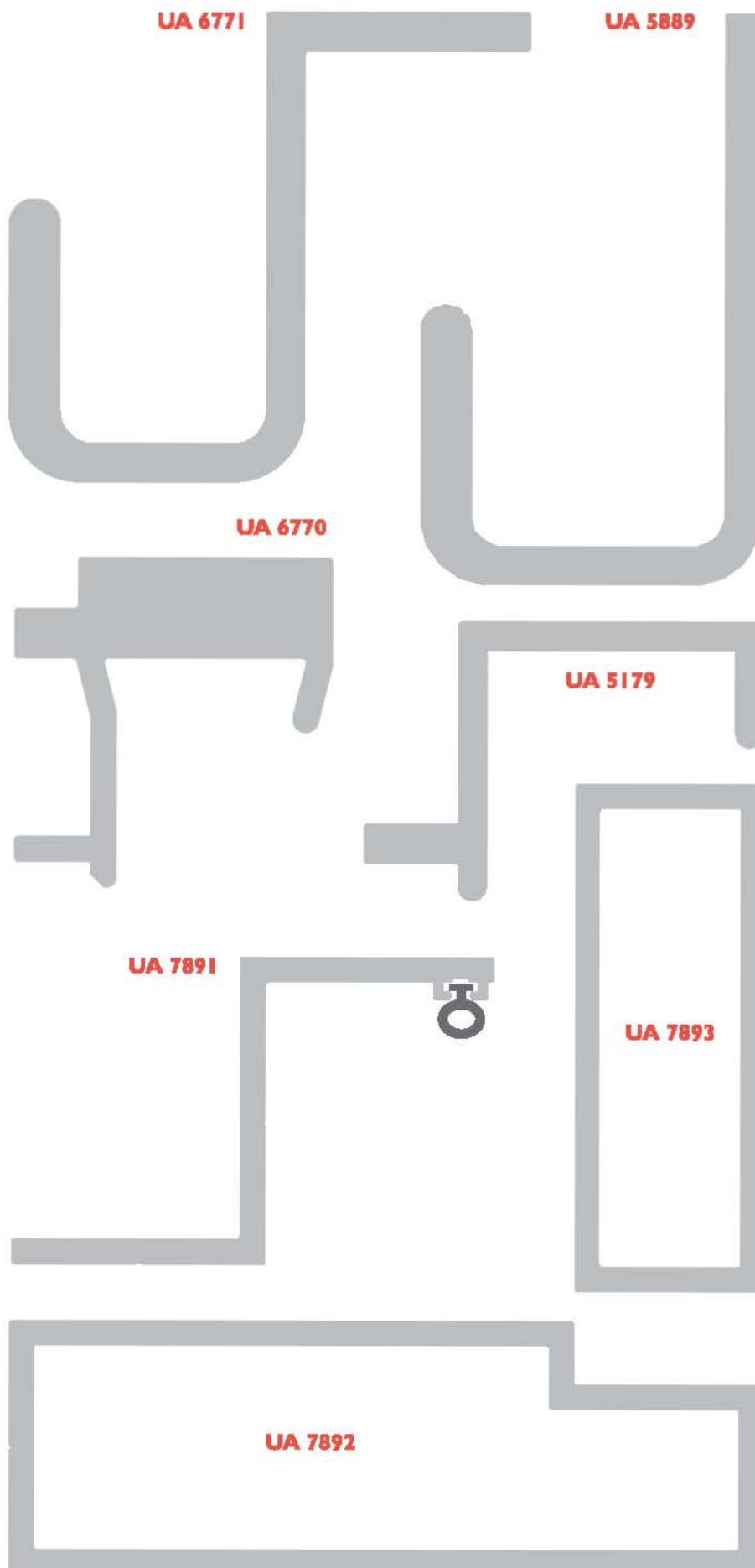
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UA 5179 (MR)
HATCH SECTION
kg/m 1.368 P 245
OAD 63 x 45

UA 5889 (MR)
DECK CAPPING
kg/m 2.926 P 347
OAD 90 x 54

UA 6770 (MR)
HATCH SECTION
kg/m 2.587 P 246
OAD 52 x 50

UA 6771 (MR)
HATCH SECTION
kg/m 3.088 P 366
OAD 81 x 73

UA 7891 (MR)
DOOR JAMB
kg/m 1.327 P 263
OAD 76 x 48.5 Infill 9101

UA 7892 (MR)
DOOR FRAME
kg/m 3.261 P 317
OAD 119 x 40

UA 7893 (MR)
DOOR TRANSOM
kg/m 2.203 P 220
OAD 80 x 30

INFILLS SOLD SEPARATELY

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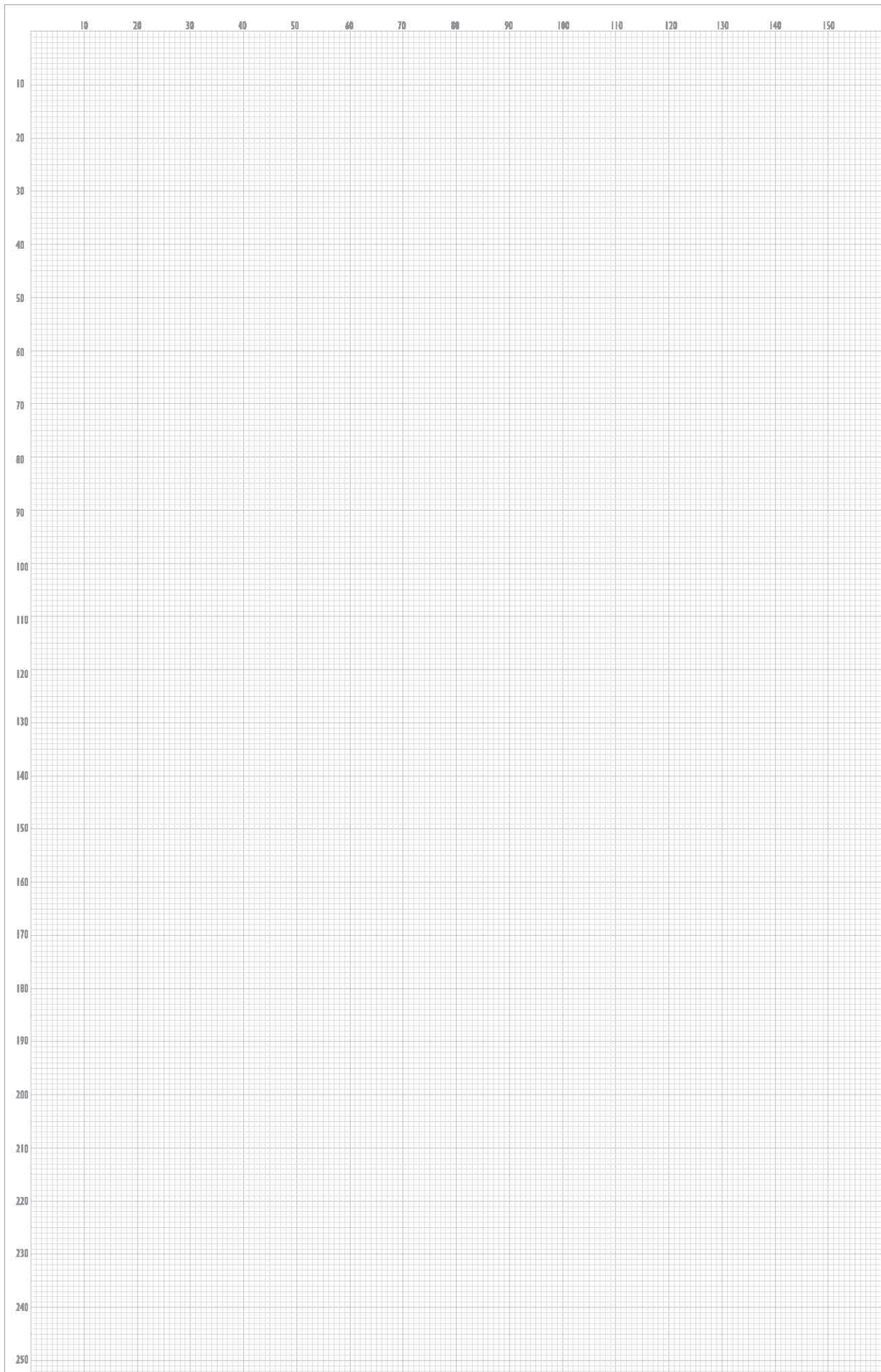
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Edition 18 - 2021



DIE No	DESCRIPTION
UA 1406	DBL SIDED AWNING RAIL
UA 1407	AWNING DRIP RAIL
UA 1408	LIGHT AWNING RAIL
UA 1409	DRIP RAIL
UA 1410	DRIP RAIL
UA 1411	LIGHT BUS DRIP RAIL
UA 1412	DRIP RAIL
UA 1413	HEAVY BUS DRIP RAIL
UA 1414	DRIP RAIL
UA 1417	RUB RAIL
UA 1426	HERZIM THRESHOLD
UA 1427	RUB RAIL
UA 1428	RUB RAIL
UA 1429	RUB RAIL
UA 1430	RUB RAIL
UA 1431	RUB RAIL
UA 1483	RUB RAIL
UA 1605	RUB RAIL
UA 1606	RUB RAIL
UA 1608	STD AWNING RAIL
UA 1875	BUFFER RAIL
UA 2218	BUS RUB RAIL
UA 2359	BUS RUB RAIL
UA 6074	DBL SIDED RAIL
UA 6553	FLANGED AWNING RAIL

NOTE: RED INDICATES
= MILL RUN ONLY =
NON-STOCKED ITEM

MINIMUM ORDER
QUANTITY 200KG

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BRANCH TO ENQUIRE

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Edition 18 - 2021

UA 1406

DBL SIDED AWNING RAIL
kg/m 0.335 P 111
OAD 32 x 13.91 ID 11mm

UA 1407

AWNING DRIP RAIL
kg/m 0.506 P 141
OAD 37.93 x 13.4 ID 11mm

UA 1408

LIGHT AWNING RAIL
kg/m 0.22 P 104
OAD 30.1 x 13.15 ID 11.2mm

UA 1409

DRIP RAIL
kg/m 0.303 P 72
OAD 19 x 14

UA 1410

DRIP RAIL
kg/m 0.357 P 82
OAD 22 x 16

UA 1411

LIGHT BUS DRIP RAIL
kg/m 0.256 P 98
OAD 25.5 x 16.5

UA 1412

DRIP RAIL
kg/m 0.131 P 59
OAD 16 x 10

UA 1413

HEAVY BUS DRIP RAIL
kg/m 0.431 P 100
OAD 24 x 22

UA 1414

DRIP RAIL
kg/m 0.146 P 74
OAD 21.5 x 12.5

UA 1608

STD AWNING RAIL
kg/m 0.221 P 96
OAD 28 x 12.8 ID 9.4mm

UA 6074 (MR)

DBL SIDED RAIL
kg/m 3.032 P 281
OAD 62.7 x 36.4

UA 6553

FLANGED AWNING RAIL
kg/m 0.496 P 192
OAD 64.8 x 15.95 ID 13mm

UA 1408**UA 1608****UA 1406****UA 6553****UA 1407****UA 1412****UA 1414****UA 1411****UA 1409****UA 1410****UA 1413****UA 6074**

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UA 1605**UA 1428****UA 1429****UA 1430****UA 1427****UA 1431****UA 1606****UA 1483****UA 1417****UA 1417**

RUB RAIL 31.6mm
kg/m 0.271 P 104
OAD 33 x 12 Infill 5206
ENDCAPS available:
Code BOAHHENDCAPS

UA 1427

RUB RAIL 32mm
kg/m 0.126 P 89
OAD 32 x 4.5 Infill 11 Serrated

UA 1428

RUB RAIL 17mm
kg/m 0.106 P 47
OAD 17 x 5 Infill 12

UA 1429

RUB RAIL 25mm
kg/m 0.169 P 67
OAD 25 x 5 Infill 12

UA 1430

RUB RAIL 31mm
kg/m 0.120 P 82
OAD 31 x 4 Infill 12

UA 1431

RUB RAIL 40mm
kg/m 0.291 P 131
OAD 40 x 9 Infills 111, 112
ENDCAPS available:
Code BOAENDCAP/40

UA 1483 (MR)

RUB RAIL 25.2mm
kg/m 0.220 P 76
OAD 27 x 7 Infill 12

UA 1605

RUB RAIL 13mm
kg/m 0.077 P 40
OAD 13 x 4.5 Infill 11 Serrated

UA 1606

RUB RAIL 11.4mm
kg/m 0.088 P 44
OAD 13 x 7 Infill 11 Serrated

INFILLS SOLD SEPARATELY

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Edition 18 - 2021

UA 1426

HERZIM THRESHOLD 89.5mm
kg/m 0.819 P 215
OAD 89.5 x 9 Infill 12

UA 1875

BUFFER RAIL 30mm
kg/m 0.427 P 118
OAD 30 x 15 Infill 5205

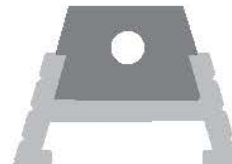
UA 2218

BUS RUB RAIL 58mm Cover
kg/m 0.402 P 144
OAD 43.5 x 11.5 Infill 5246

ENDCAPS available:
Code TRABUSENDCAP

UA 2359

BUS RUB RAIL 50mm
kg/m 0.235 P 146
OAD 50 x 10 Infill 4870

UA 2359**UA 2218****UA 1875****UA 1426**

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Edition 18 - 2021

INFILLS SOLD SEPARATELY

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NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

DIE No	DESCRIPTION
UA 1393	BUS WINDOW - BOTTOM
UA 1395	BUS WINDOW - TOP
UA 1396	CANT RAIL
UA 1397	EASYDEK SIDE CAP
UA 1398	EASYDEK COAMING RAIL
UA 1399	EASYDEK FLOORING
UA 1400	SIDE RAIL
UA 1402	PLANK
UA 1403	PLANK
UA 1404	ROLLER SHUTTER
UA 1405	HOLLOW PLANK
UA 1494	TRAY SIDE CAP
UA 1509	CANT RAIL
UA 1510	SCALLOP PLANK
UA 1511	CANT RAIL
UA 1573	ROLLER GLIDE CHANNEL
UA 1581	TRUCK SIDE BOARD
UA 1583	CANT RAIL
UA 1584	TRUCK SIDE RAIL
UA 2463	CHANNEL
UA 2741	CANT RAIL
UA 3328	COAMING RAIL
UA 3493	DECKING
UA 4394	CHASSIS RUNNER CAP
UA 4395	CHASSIS RUNNER
UA 4626	GRATE Punched
UA 4711	TOP HAT
UA 5006	COAMING RAIL
UA 5183	SIDE BOARD
UA 5275	SUB FRAME
UA 5814	TIPPER SUB FRAME
UA 6153	SIDE RAIL
UA 6388	SIDE RAIL
UA 6567	SIDE RAIL
UA 6611	DECKING
UA 6784	P-SECTION
UA 6892	CHANNEL

NOTE: RED INDICATES
= MILL RUN ONLY =
NON-STOCKED ITEM

MINIMUM ORDER
QUANTITY 200KG

CONTACT YOUR LOCAL
BRANCH TO ENQUIRE

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Edition 18 - 2021

UA 1398

EASYDEK COAMING RAIL

kg/m 1.243 P 250

OAD 63 x 33.5 fits 1399

UA 1399

EASYDEK FLOORING

kg/m 1.621 P 581

OAD 179.5 x 28.5

UA 1400

SIDE RAIL

kg/m 1.670 P 490

OAD 102 x 61

UA 3328 (MR)

COAMING RAIL

kg/m 1.811 P 452

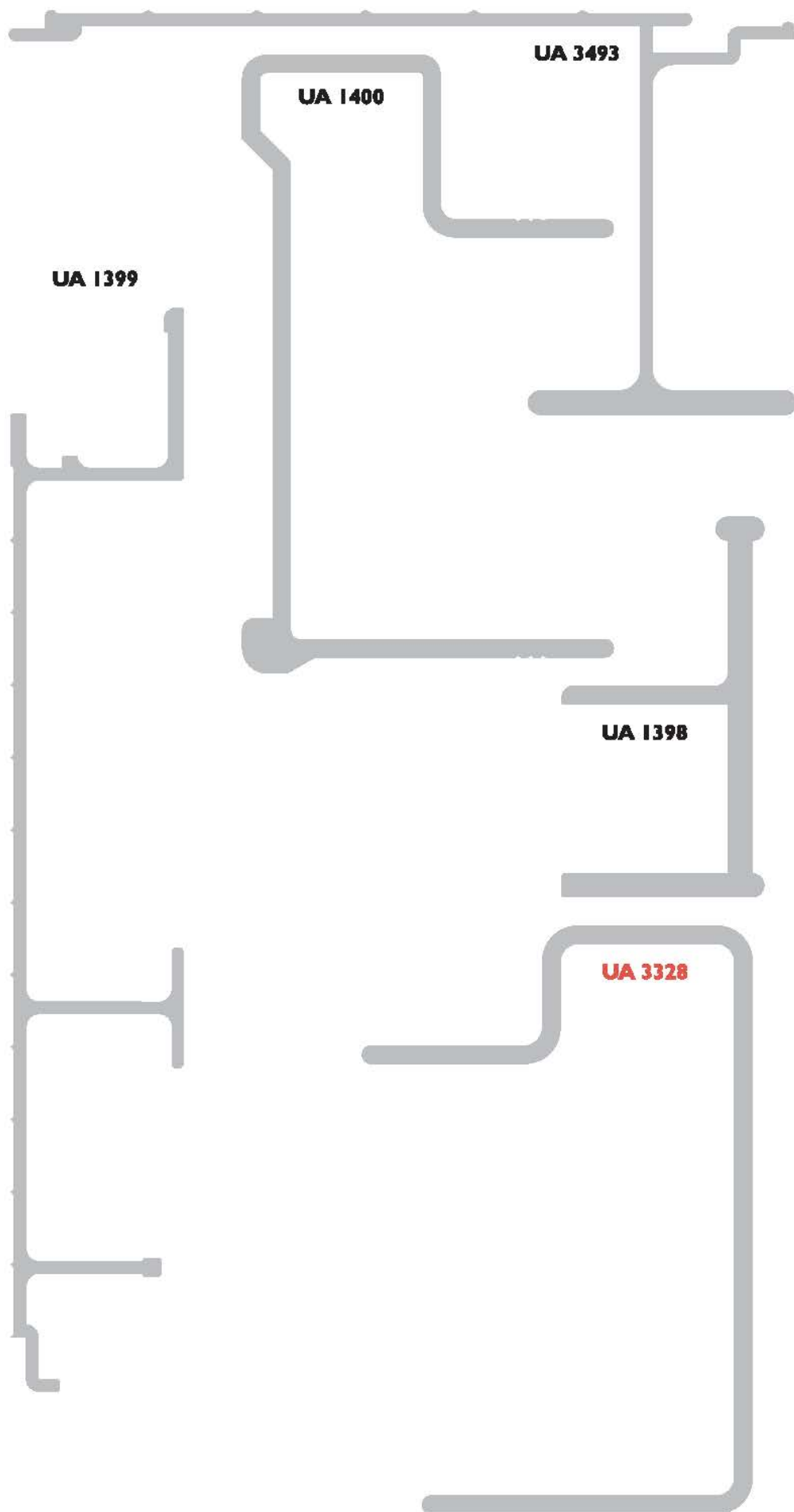
OAD 98 x 65

UA 3493

DECKING

kg/m 1.667 P 491

OAD 130 x 66.5



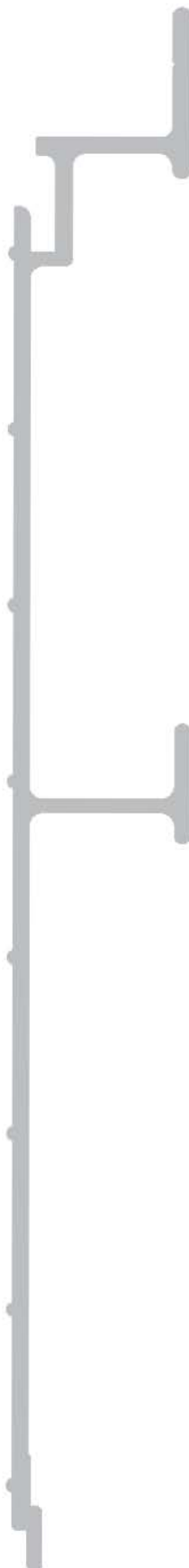
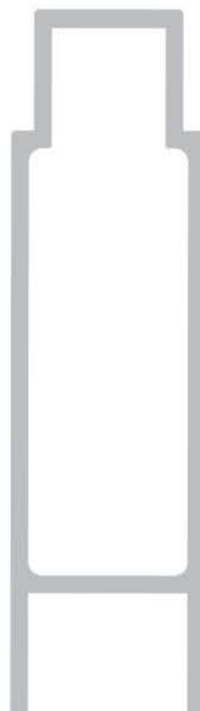
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UA 4626**UA 6611****UA 1405****UA 1397**

EASYDEK SIDE CAP
kg/m 0.521 P 169
OAD 45 x 22

UA 1405

HOLLOW PLANK
kg/m 1.409 P 268
OAD 93 x 25.5

UA 4626

GRATE Punched
kg/m 2.788 P 840
OAD 228.6 x 26

UA 6567

SIDE RAIL
kg/m 0.860 P 163
OAD 75 x 15

UA 6611 (MR)

DECKING
kg/m 1.971 P 611
OAD 229.2 x 26

UA 1397**UA 6567**

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Edition 18 - 2021

UA 1494

TRAY SIDE CAP
kg/m 1.202 P 287
OAD 34.93 x 63.5

UA 1510

SCALLOP PLANK
kg/m 1.409 P 421
OAD 190.5 x 9.53

UA 1581

TRUCK SIDE BOARD
kg/m 2.172 P 647
OAD 225 x 25

UA 1584 (MR)

TRUCK SIDE RAIL
kg/m 1.521 P 455
OAD 136 x 50

UA 1510**UA 1584****UA 1581****UA 1494**

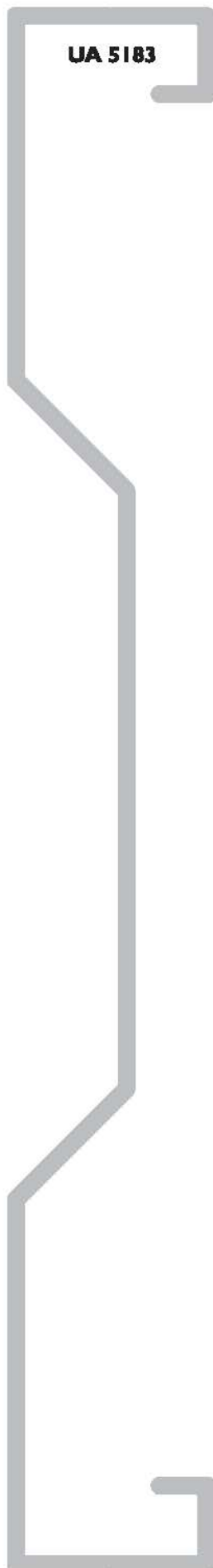
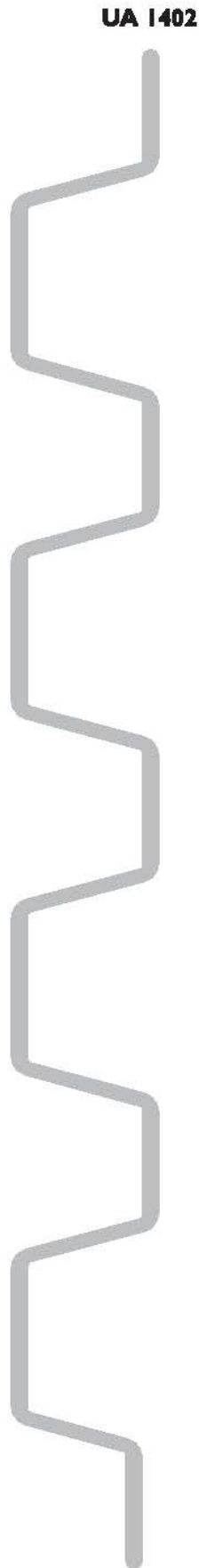
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Edition 1B - 2021

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**UA 5183****UA 1402****UA 1403**

UA 1402
PLANK
kg/m 2.060 P 678
OAD 226 x 22

UA 1403
PLANK
kg/m 1.530 P 572
OAD 229.5 x 12.5

UA 5183
SIDE BOARD
kg/m 2.461 P 732
OAD 250 x 33

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UA 1396

CANT RAIL

kg/m 1.966 P 558

OAD 152.5 x 79.4

Cast Corner UC1396

UA 1509

CANT with Drip Rail

kg/m 2.401 P 646

OAD 153.97 x 136.62

UA 1511

CANT RAIL

kg/m 0.629 P 208

OAD 73.28 x 56.55

UA 1583 (MR)

CANT with Drip Rail

kg/m 1.615 P 479

OAD 109.33 x 90

UA 2741

CANT RAIL

kg/m 1.806 P 451

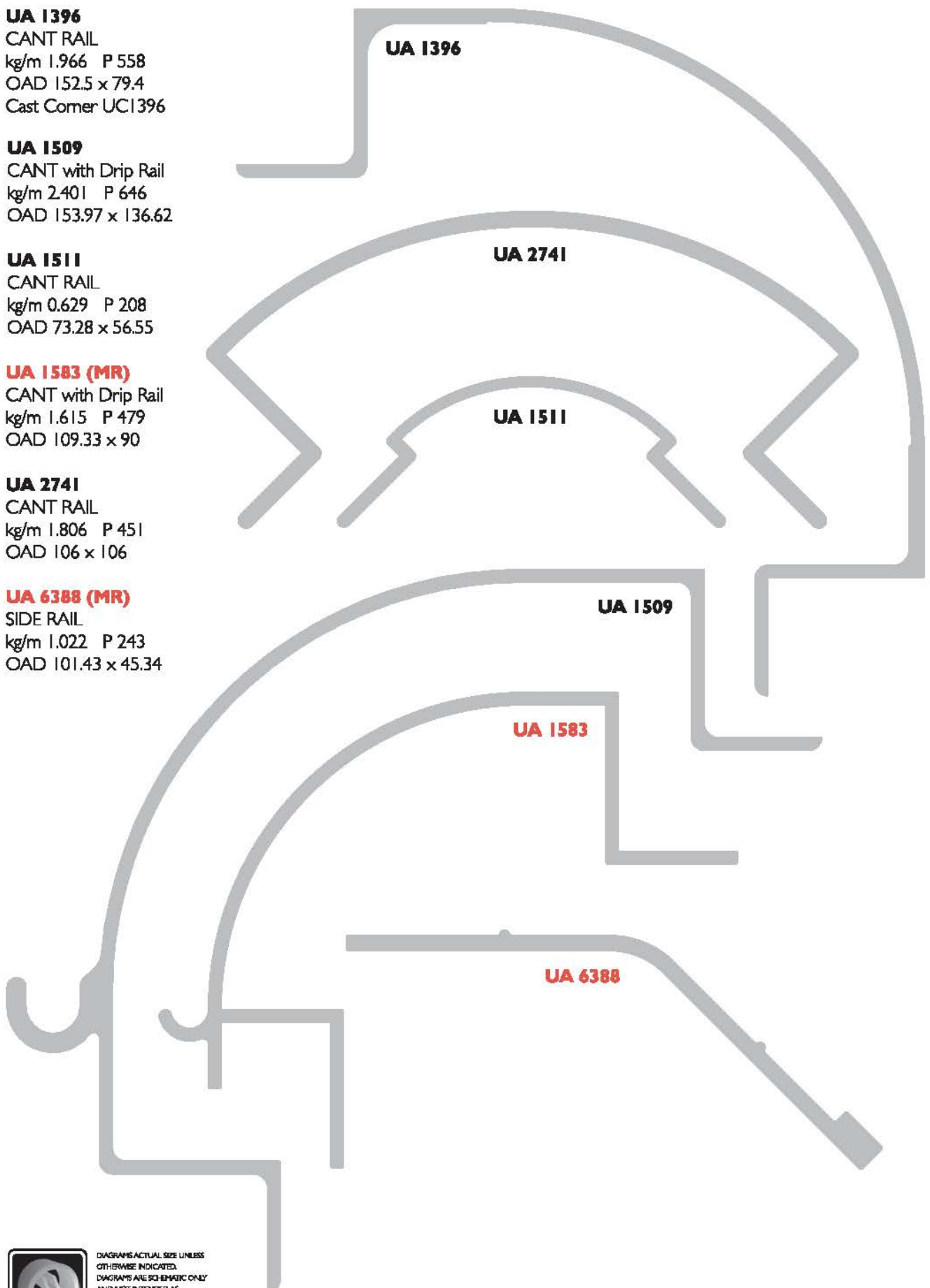
OAD 106 x 106

UA 6388 (MR)

SIDE RAIL

kg/m 1.022 P 243

OAD 101.43 x 45.34



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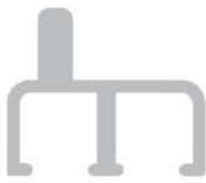
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UA 1395



UA 1404



UA 6784



UA 1393

BUS WINDOW Bottom
kg/m 0.457 P 175
OAD 34.5 x 28

UA 1395

BUS WINDOW Top
kg/m 0.387 P 144
OAD 26 x 22

UA 1404

ROLLER SHUTTER
kg/m 0.394 P 162
OAD 58.85 x 11.3

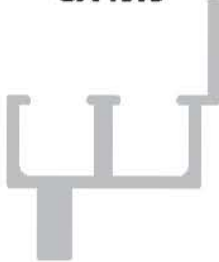
UA 1573

ROLLER GLIDE CHANNEL
kg/m 0.273 P 148
OAD 25 x 25

UA 6784 (MR)

P-SECTION
kg/m 1.062 P 169
OAD 60 x 30

UA 1393



UA 1573



**PLASTIC ROLLER
DOOR GLIDE**

Code: TRAROLLDOORGL



Fits 1404

Each end of every second shutter
Minimum inside radius bend of 150mm

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Edition 18 - 2021

UA 2463

CHANNEL

kg/m 3.056 P 336

OAD 100 x 50

UA 5006

COAMING RAIL

kg/m 7.173 P 914

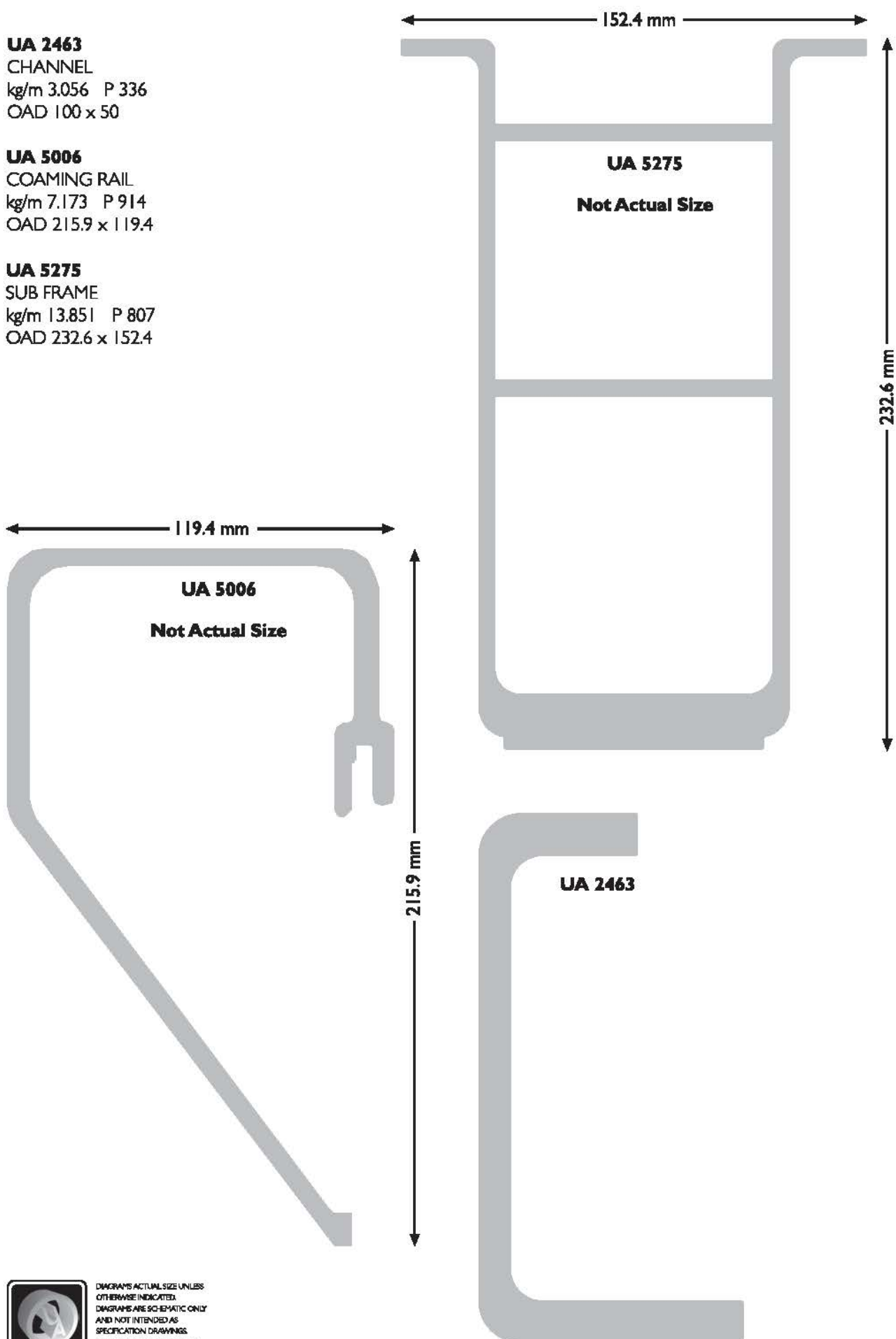
OAD 215.9 x 119.4

UA 5275

SUB FRAME

kg/m 13.851 P 807

OAD 232.6 x 152.4



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UA 6153**UA 4394**

CHASSIS RUNNER CAP
 kg/m 4.599 P 349
 OAD 90 x 50

UA 4395

CHASSIS RUNNER
 kg/m 6.132 P 473
 OAD 130 x 110

UA 6153 (MR)

SIDE RAIL
 kg/m 3.318 P 445
 OAD 125 x 125

UA 4711 (MR)

TOP HAT
 kg/m 1.389 P 366
 OAD 140 x 34.9

UA 4394**UA 4395****UA 4711**

DIAGRAMS ACTUAL SIZE UNLESS
 OTHERWISE INDICATED.
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 AND NOT INTENDED AS
 SPECIFICATION DRAWINGS.
 OAD = OVERALL DIMENSIONS
 P = EXT PERIPHERY

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**MR = MILL RUN ONLY • NON-STOCKED ITEM • MINIMUM ORDER 200KG**

NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

Edition 18 - 2021

UA 5814

TIPPER SUB FRAME

kg/m 9.596 P 555

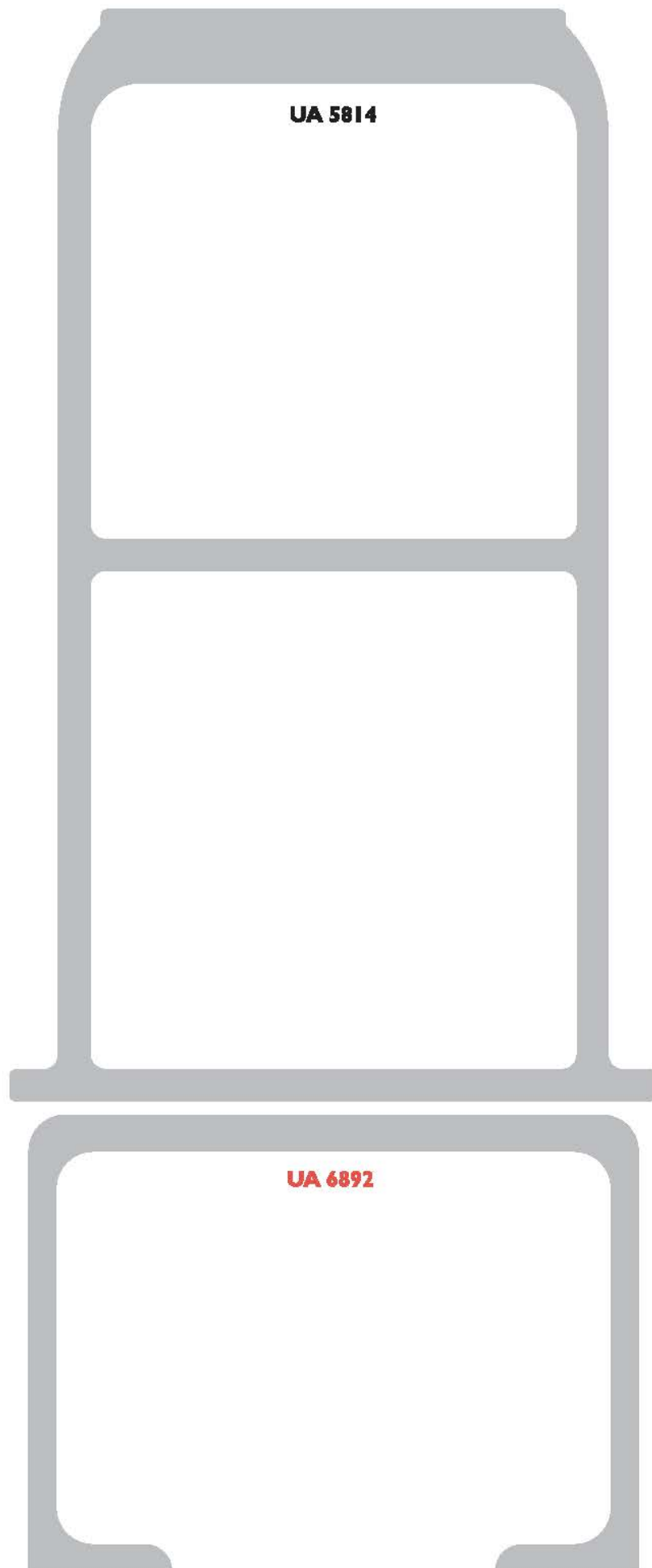
OAD 179 x 106

UA 6892 (MR)

CHANNEL

kg/m 3.777 P 544

OAD 100 x 75



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DIE No	DESCRIPTION
UA 1623	1.6mm CAPPING
UA 1624	1.6mm JOINTER
UA 1451	3mm CAPPING
UA 1452	3mm JOINTER
UA 1453	3mm INT CORNER
UA 1454	3mm EXT CORNER
UA 3871	4.5mm AQUAPANEL CAP
UA 3872	4.5mm AQUAPANEL JOINTER
UA 3874	4.5mm AQUAPANEL INT JOINTER
UA 3873	4.5mm AQUAPANEL EXT JOINTER
UA 3875	4.5mm AQUAPANEL SCOTIA
UA 1455	5mm CAPPING
UA 1456	5mm JOINTER
UA 1457	5mm INT CORNER
UA 1458	5mm EXT CORNER
UA 1461	6.5mm CAPPING
UA 1460	6.5mm JOINTER
UA 1622	6.5mm INT CORNER
UA 1459	6.5mm EXT CORNER
UA 4405	10mm CAPPING
UA 4406	10mm JOINTER
UA 4408	10mm INT CORNER
UA 4407	10mm EXT CORNER
UA 3467	12mm JOINTER OFFSET
UA 4412	13mm CAPPING
UA 7829	13mm JOINTER
UA 7827	13mm INT CORNER
UA 7828	13mm EXT CORNER
UA 4413	13mm JOINTER
UA 4414	13mm SERRATED CAP
UA 4409	13mm SERRATED JOINTER
UA 4411	13mm SERRATED INT CORNER
UA 4410	13mm SERRATED EXT CORNER
UA 1627	14.5mm CAPPING
UA 1628	14.5mm JOINTER
UA 3403	18mm CAPPING
UA 1629	18.5mm JOINTER
UA 1922	20mm CAPPING
UA 3404	22mm CAPPING
UA 6887	23mm EXT CORNER
UA 1472	VARIABLE JOINTER
UA 1473	PARTITION JOINTER

NOTE: RED INDICATES
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MINIMUM ORDER
QUANTITY 200KG

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BRANCH TO ENQUIRE

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UA 1623

1.6mm CAPPING
kg/m 0.083 P 54
OAD 18 x 4.6

UA 1451

3mm CAPPING
kg/m 0.088 P 68
OAD 21 x 6

UA 3871

4.5mm AQUAPANEL CAP
kg/m 0.115 P 70
OAD 19 x 7.4

UA 1455

5mm CAPPING
kg/m 0.094 P 71
OAD 21 x 8

UA 1461

6.5mm CAPPING
kg/m 0.099 P 75
OAD 21 x 9.5

UA 4405

10mm CAPPING
kg/m 0.117 P 89
OAD 23 x 13.4

UA 4412

13mm CAPPING
kg/m 0.150 P 95
OAD 21.2 x 16.8

UA 4414

13mm SERRATED CAP
kg/m 0.224 P 125
OAD 33 x 17.78

UA 1627

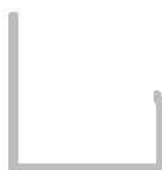
14.5mm CAPPING
kg/m 0.153 P 96
OAD 21.2 x 18

UA 3403

18mm CAPPING
kg/m 0.163 P103
OAD 21.2 x 20.8

UA 1922

20mm CAPPING
kg/m 0.172 P 109
OAD 23.8 x 21.2

UA 1623**UA 1451****UA 3871****UA 1455****UA 1461****UA 4405****UA 4412****UA 4414****UA 1627****UA 3403****UA 1922****UA 3404****UA 3404**

22mm CAPPING
kg/m 0.176 P 111
OAD 24.8 x 21.2



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UA 1624**UA 1452****UA 3872****UA 1456****UA 1460****UA 1624**

1.6mm JOINTER
kg/m 0.131 P 84
OAD 27 x 4.6

UA 1452

3mm JOINTER
kg/m 0.117 P 88
OAD 27 x 6.5

UA 3872

4.5mm AQUAPANEL JOINTER
kg/m 0.187 P 124
OAD 36 x 7.1

UA 4406**UA 7829****UA 4413****UA 4409****UA 1456**

5mm JOINTER
kg/m 0.120 P 91
OAD 27 x 8

UA 1460

6.5mm JOINTER
kg/m 0.134 P 97
OAD 27 x 9.5

UA 1628**UA 1629****UA 3467****UA 4406**

10mm JOINTER
kg/m 0.168 P 121
OAD 34 x 13.4

UA 3467

12mm JOINTER OFFSET
kg/m 0.376 P 202
OAD 70 x 16.3

UA 7829

13mm JOINTER
kg/m 0.177 P 127
OAD 34 x 16.4

UA 4413

13mm JOINTER
kg/m 0.191 P 120
OAD 30 x 16.4

UA 1472**UA 1629**

18.5mm JOINTER
kg/m 0.275 P 165
OAD 44 x 22

UA 4409

13mm SERRATED JOINTER
kg/m 0.413 P 212
OAD 65 x 17.49

UA 1473**UA 1472 (MR)**

VARIABLE JOINTER
kg/m 0.099 P 68
OAD 25 x 4.5 Infill 11

UA 1628

14.5mm JOINTER
kg/m 0.276 P 173
OAD 50 x 18

UA 1473

PARTITION JOINTER
kg/m 0.416 P 124
OAD 46 x 9 Infill 633

INFILLS SOLD SEPARATELY

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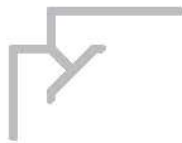
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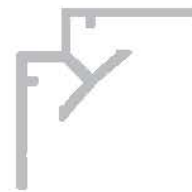
NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

UA 1453

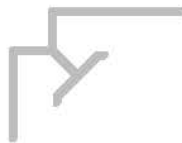
3mm INT CORNER
kg/m 0.143 P 108
OAD 23 x 17.5

UA 1453**UA 3874****UA 3874**

4.5mm INT AQUAPANEL
kg/m 0.215 P 134
OAD 24.1 x 24.1

**UA 3875**

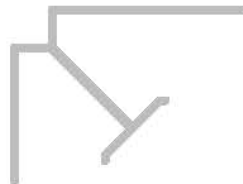
4.5mm AQUAPANEL SCOTIA
kg/m 0.138 P 86
OAD 18.4 x 15.1

UA 1457**UA 1622****UA 1457**

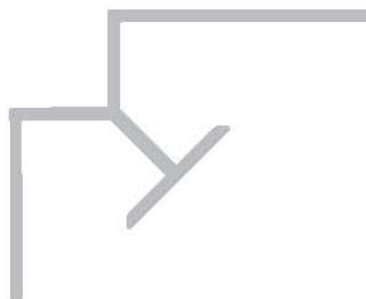
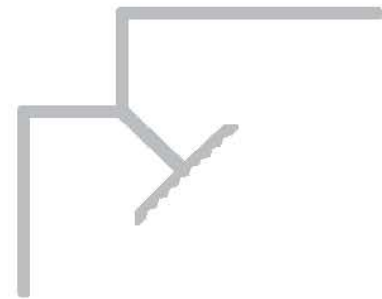
5mm INT CORNER
kg/m 0.147 P 111
OAD 23.5 x 18

UA 1622

6.5mm INT CORNER
kg/m 0.172 P 110
OAD 24 x 19

UA 4408**UA 4408**

10mm INT CORNER
kg/m 0.224 P 161
OAD 31.5 x 23.5

UA 7827**UA 4411****UA 7827 (MR)**

13mm INT CORNER
kg/m 0.464 P 228
OAD 48 x 38.5

UA 4411

13mm INT SERRATED
kg/m 0.453 P 230
OAD 48 x 38.5

UA 3875

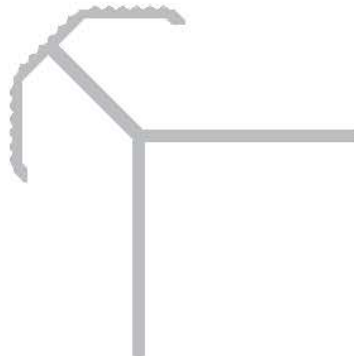
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UA 1454**UA 3873****UA 1458****UA 1459****UA 4407****UA 7828****UA 4410****UA 6887****UA 1454**

3mm EXT CORNER
kg/m 0.129 P 97
OAD 19 x 16.6

UA 3873

4.5mm EXT AQUAPANEL
kg/m 0.216 P 138
OAD 19.05 x 18.5

UA 1458

5mm EXT CORNER
kg/m 0.140 P 105
OAD 19 x 18.8

UA 1459

6.5mm EXT CORNER
kg/m 0.148 P 108
OAD 20.35 x 18.9

UA 4407

10mm EXT CORNER
kg/m 0.246 P 178
OAD 30.3 x 29

UA 7828 (MR)

13mm EXT CORNER
kg/m 0.465 P 229
OAD 42.9 x 38.7

UA 4410

13mm EXT SERRATED
kg/m 0.437 P 232
OAD 42.18 x 38.70

UA 6887 (MR)

23mm EXT CORNER
kg/m 1.641 P 329
OAD 69.2 x 69.2

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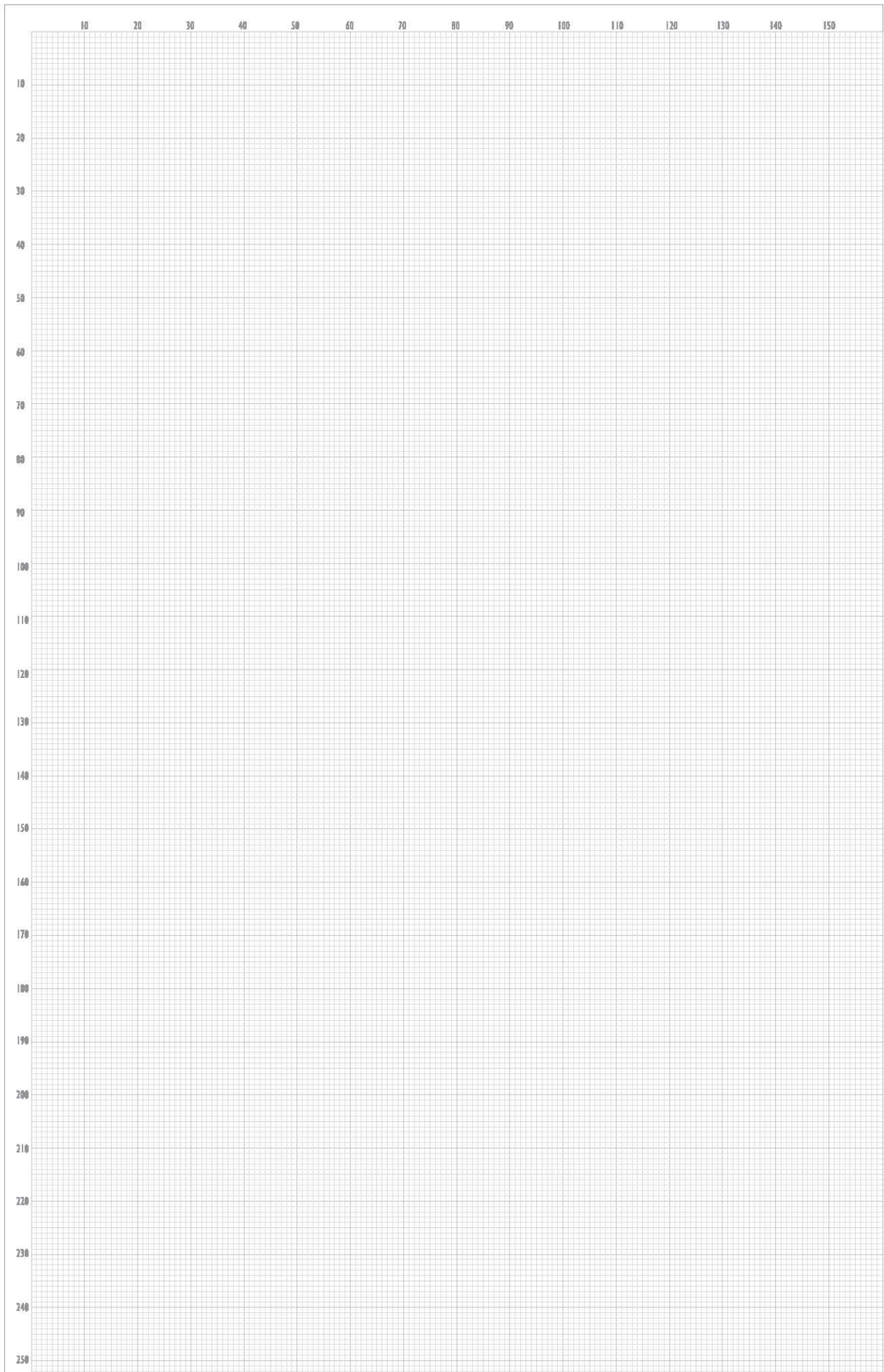
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Edition 18 - 2021



DIE No	DESCRIPTION
UA 1513	STAKE
UA 1642	SQUARE HOLLOW
UA 5633	STAKE
UA 7948	4mm SIGN PANEL CAP
UA 7949	4mm SIGN PANEL JOINTER
UA 7950	4mm SIGN PANEL INT CORNER
UA 7951	4mm SIGN PANEL EXT CORNER
UA 7988	4mm SIGN PANEL ANGLE CHANNEL
UA 7989	4mm SIGN PANEL TEE CHANNEL
UA 7990	4mm SIGN PANEL FRAME
UA 7991	4mm SIGN PANEL BOX FRAME

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MINIMUM ORDER
QUANTITY 200KG

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UA 1513

STAKE (green) fits 7988, 7989
kg/m 1.416 P 196
OAD 50 x 50

UA 1642

SQUARE HOLLOW
kg/m 0.313 P 102
OAD 25.4 x 25.4

UA 5633

STAKE (yellow) fits 7990
kg/m 1.725 P 352
OAD 50 x 49.5

UA 7948

4mm SIGN PANEL CAP
kg/m 0.167 P 89
OAD 26.5 x 8

UA 7949

4mm SIGN PANEL JOINTER
kg/m 0.305 P 160
OAD 51.5 x 8

UA 7950

4mm SIGN PANEL INT CORNER
kg/m 0.334 P 172
OAD 33 x 33

UA 7951

4mm SIGN PANEL EXT CORNER
kg/m 0.366 P 184
OAD 32.56 x 32.56

UA 7988

4mm SIGN PANEL ANGLE CHANNEL
kg/m 0.311 P 118
OAD 24.3 x 24.1

UA 7989

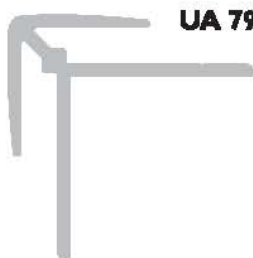
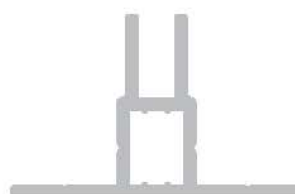
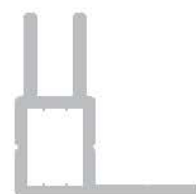
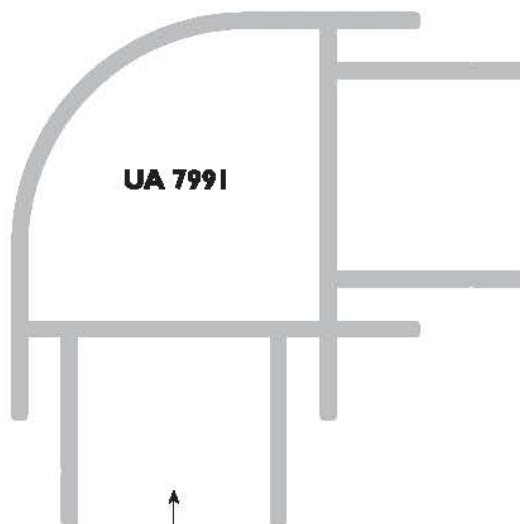
4mm SIGN PANEL TEE CHANNEL
kg/m 0.367 P 146
OAD 38.3 x 24.1

UA 7990

4mm SIGN PANEL FRAME
kg/m 0.481 P 125
OAD 32 x 20.5

UA 7991

4mm SIGN PANEL BOX FRAME
kg/m 1.269 P 443
OAD 67.4 x 67.4

UA 7948**UA 7949****UA 7950****UA 7951****UA 7989****UA 7988****UA 7990****UA 7991****UA 1513****UA 1642****UA 5633****UCI 508 CAST BOX CORNER**

Fits UA 7991



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DIE No	DESCRIPTION
UA 1310	WOOLPILE DOOR STOP
UA 1374	SECURAMESH CHANNEL
UA 1375	SECURAMESH FIX FRAME
UA 1376	SECURAMESH FIX FRAME
UA 1377	DOOR FRAME
UA 1379	STAKE
UA 1387	MESH WINDOW FRAME
UA 1609	ADJUSTER CHANNEL
UA 1649	SEC JAMB FIX
UA 1738	DOOR FRAME
UA 1864	STAKE
UA 1942	SLIDING TRACK
UA 1943	SLIDING TRACK
UA 2985	JAMB EXTENSION
UA 3592	MESH WINDOW FRAME
UA 3614	ADJUSTER CHANNEL
UA 3929	JOINTER
UA 4077	SECURAMESH CHANNEL
UA 4111	TRACK FRAME
UA 4112	DOOR FRAME
UA 5563	STAKE
UA 5632	JAMB EXTENSION
UA 5655	DOOR FRAME
UA 5971	STAKE
UA 6836	DOOR TRACK
UA 7007	SECURITY JOINTER
UA 7008	SECURITY FRAME
UA 7710	SEC DOUBLE SLIDING TRACK
UA 7715	SEC DOUBLE DOOR CATCH
UA 8370	STAKE
UA 10061	ULLTRASAFE DOOR FRAME
UA 10062	ULLTRASAFE DOOR BEAD
UA 10063	ULLTRASAFE WINDOW FRAME
UA 10064	ULLTRASAFE WINDOW BEAD

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**MINIMUM ORDER
QUANTITY 200KG**

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UA 1374

SECURAMESH CHANNEL

kg/m 0.151 P 76

OAD 15 x 10

UA 1375

SECURAMESH FIX FRAME

kg/m 0.269 P 142

OAD 38 x 10

UA 1376

SECURAMESH FIX FRAME

kg/m 0.257 P 129

OAD 28 x 10.9

UA 1377

DOOR FRAME

kg/m 0.715 P 240

OAD 72 x 20

UA 1387

MESH WINDOW FRAME

kg/m 0.283 P 126

OAD 33.5 x 10.5

UA 1609

ADJUSTER CHANNEL

kg/m 0.149 P 85

OAD 14.5 x 14.5

UA 1738

DOOR FRAME

kg/m 0.581 P 237

OAD 69.5 x 20

UA 2985

JAMB EXTENSION

kg/m 1.011 P 353

OAD 97 x 32

UA 3614

ADJUSTER CHANNEL

kg/m 0.196 P 94

OAD 16.2 x 16.2

UA 3929

JOINTER

kg/m 0.301 P 182

OAD 40 x 10

UA 4077

SECURAMESH CHANNEL

kg/m 0.317 P 99

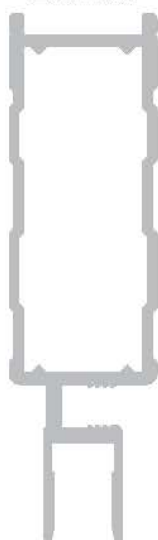
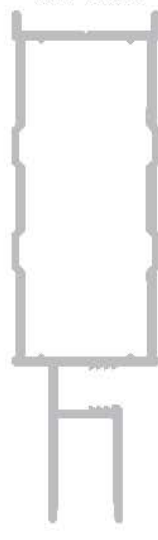
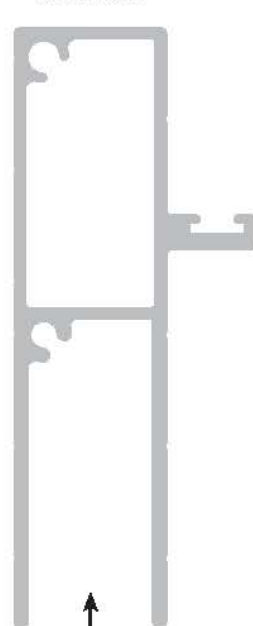
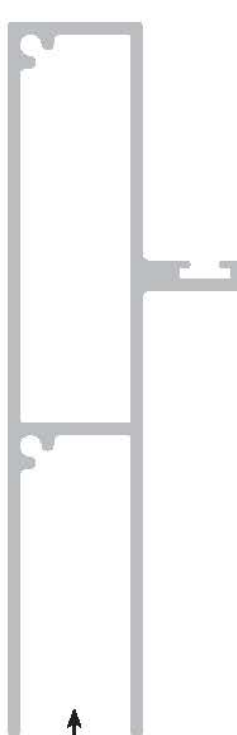
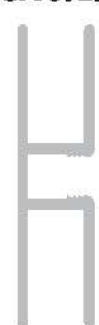
OAD 20 x 12

UA 4112 (MR)

DOOR FRAME

kg/m 0.681 P 233

OAD 74.1 x 20

UA 1377**UA 1738****UA 1374****UA 5632****UA 4112****UA 5655****UA 4077****UA 3614****UA 2985****UA 1376****UA 3929****UA 1375****UA 1387****UA 1609**

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UA 5632

JAMB EXTENSION

kg/m 1.050 P 318

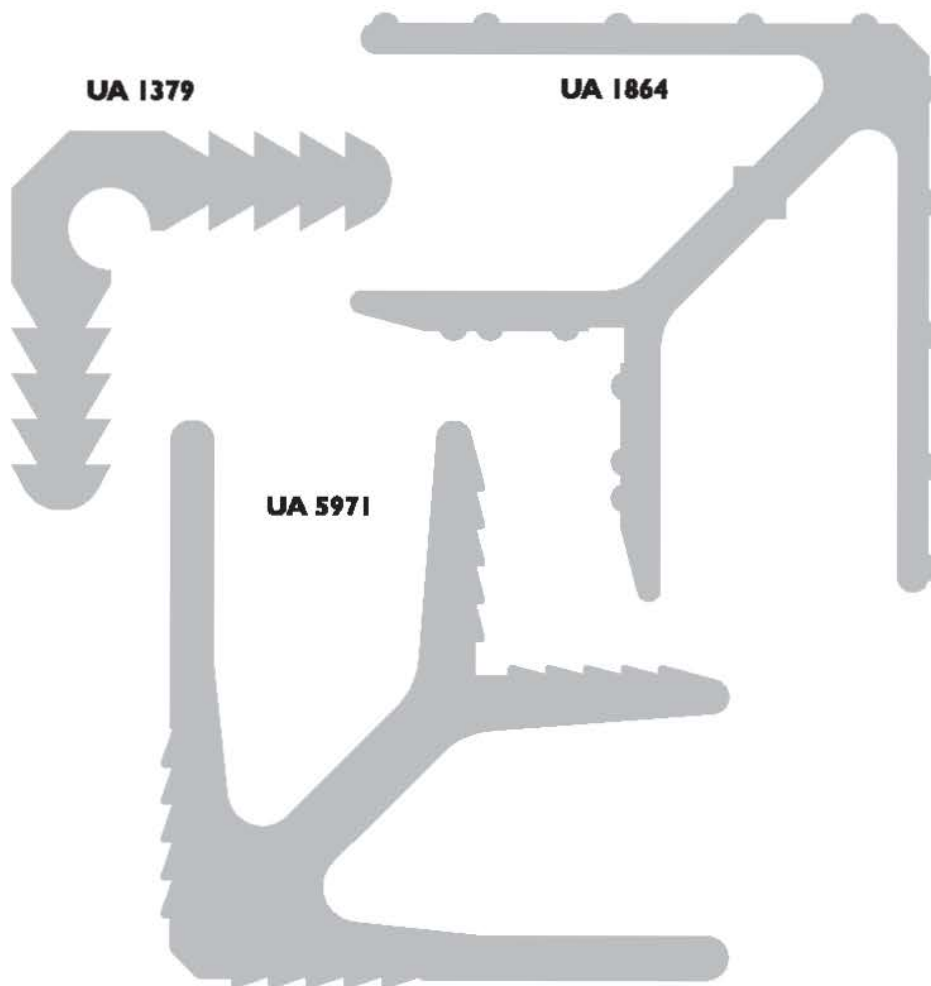
OAD 79 x 32

UA 5655

DOOR FRAME

kg/m 0.763 P 230

OAD 71.6 x 19



UA 1310

WOOLPILE DOOR STOP
kg/m 0.145 P 75
OAD 18 x 13

UA 1379

STAKE (blue) fits 1387,1649
STAKE (red) fits 3592
STAKE (white) fits 7008
kg/m 2.227 P 264
OAD 50 x 50

UA 1649

SEC JAMB FIX
kg/m 0.399 P 189
OAD 42 x 33.5

UA 1864

STAKE (black) fits 1377, 1738, 4112
kg/m 3.536 P 527
OAD 104.5 x 77.5

UA 3592

MESH WINDOW FRAME
kg/m 0.371 P 146
OAD 36.7 x 10.7

UA 5971

STAKE (orange) fits 5655
kg/m 4.524 P 497
OAD 74.9 x 74.9

UA 7007

SECURITY JOINTER
kg/m 0.473 P 213
OAD 47 x 10.8

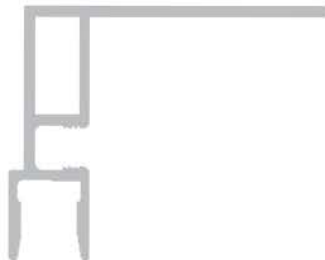
UA 7008

SECURITY FRAME
kg/m 0.444 P 144
OAD 40.25 x 10.8

UA 3592



UA 1649



UA 7008



UA 7007



UA 1310



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UA 1942

SEC SLIDING TRACK

kg/m 0.773 P 298

OAD 41.5 x 41

UA 1943

SEC SLIDING TRACK

kg/m 0.468 P 212

OAD 32 x 31

UA 4111 (MR)

TRACK FRAME

kg/m 0.537 P 265

OAD 33 x 32

UA 6836

DOOR TRACK

kg/m 0.477 P 216

OAD 33 x 32

UA 7710

SEC DOUBLE SLIDING TRACK

kg/m 1.373 P 465

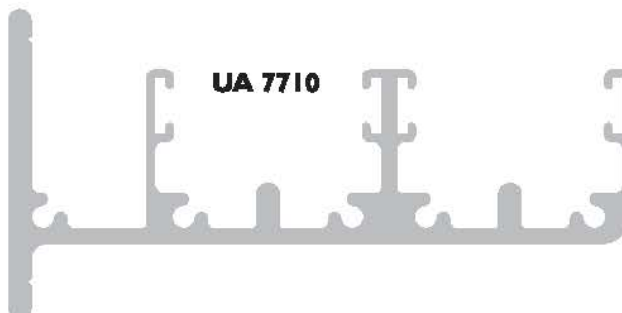
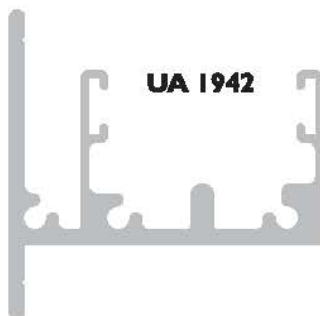
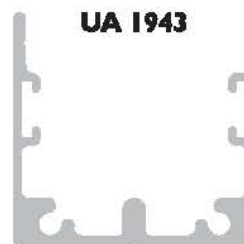
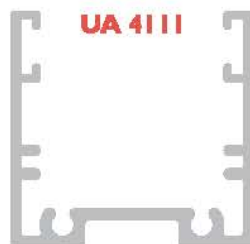
OAD 82.3 x 41

UA 7715

SEC DOUBLE DOOR CATCH

kg/m 0.103 P 58

OAD 21.8 x 8

**UA 7715**

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UA 10855



UA 10062



UA 10063



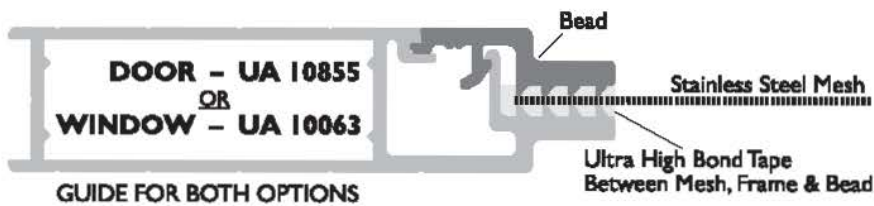
UA 10064



ULTRA HIGH BOND TAPE

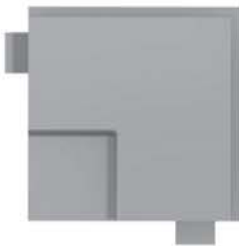
Code: 2045R-U-012

FABRICATION GUIDE



Note: To comply with AS5039 the door must be manufactured as shown.

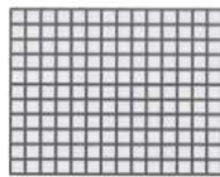
BLACK PLASTIC INTERNAL BEAD CORNERS



DOOR CORNER
Fits 10062
Code: SECUSUA40BLK



WINDOW CORNER
Fits 10064
Code: SECUSUA20BLK



STAINLESS STEEL MESH
GRADE 316, 0.8mm

UA 5563

STAKE fits 10061
kg/m 3.802 P 537
OAD 74.9 x 74.9

UA 8370

STAKE fits 10063
kg/m 2.490 P 173
OAD 44.45 x 44.45

UA 10062

ULLTRASAFE DOOR BEAD
kg/m 0.248 P 92
OAD 26.95 x 8.78

UA 10063

ULLTRASAFE WINDOW FRAME
kg/m 0.424 P 144
OAD 43.8 x 11

UA 10064

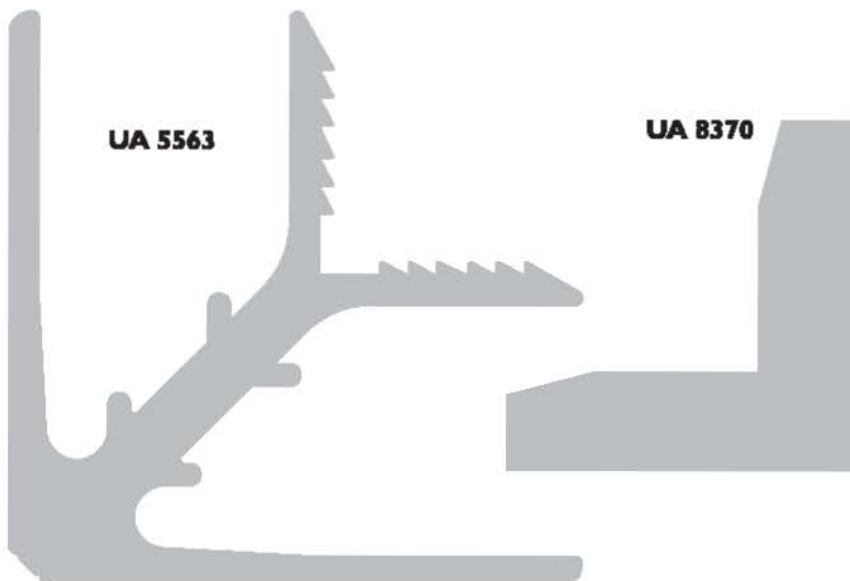
ULLTRASAFE WINDOW BEAD
kg/m 0.206 P 86
OAD 26.95 x 7.73

UA 10855

ULLTRASAFE DOOR FRAME
kg/m 0.823 P 266
OAD 79.9 x 19

PLEASE NOTE:

An ULLTRASAFE Assembly Machine is recommended for fabrication. Please consult with your nearest Ullrich Branch.



DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS. OAD = OVERALL DIMENSIONS P = EXT PERIPHERY

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MR = MILL RUN ONLY • NON-STOCKED ITEM • MINIMUM ORDER 200KG

NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

Edition 18 - 2021

COMMERCIAL APPLICATIONS

For security doors, windows and partitions in workplaces, storage areas and public buildings, where intrusion of insects is detrimental to comfort and hygiene and where natural airflow is desirable:

Kitchens and food preparation areas
Garden restaurants, patio bars and cafés
Hotel and motel dining and accommodation rooms
Factory cafeterias
Hospitals and medical facilities
Food processing plants and storage areas
Food retail outlets
Roll curtains for tent manufacturing (fibreglass mesh)

DOMESTIC APPLICATIONS

All dwelling apertures or partitions where intrusion of insects is detrimental to living comfort and hygiene, and where natural airflow is desirable:

Main entrances
Kitchens
Dining rooms
Living rooms and bedrooms
Breeze-ways
Conservatories
Summer houses
Covered decks and patios
Pergola walls

**MATERIALS**

Aluminium

COLOURS

Black painted
Silver treated

ROLL WIDTHS

810 mm
910 mm
1070 mm
1220 mm
1520 mm
1830 mm

MESH SIZES

18 x 16TPI x 0.011"

Fibreglass

Black
Grey

810 mm
910 mm
1070 mm
1220 mm
1520 mm
1830 mm

18 x 16TPI x 0.011"

ROLL LENGTHS

Standard 30-metre rolls, individually wrapped.



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DIE No	DESCRIPTION
UA 1054	WINDOW FRAME
UA 1355	11.8mm BOTTOM CHANNEL
UA 1379	STAKING ANGLE
UA 1380	HANDLE
UA 1381	VISION RAIL
UA 1382	VISION RAIL
UA 1383	10mm BOTTOM CHANNEL
UA 1384	10mm TOP CHANNEL
UA 1385	DOOR FRAME
UA 1386	WINDOW FRAME
UA 1388	DOOR FRAME
UA 1389	WINDOW SECTION
UA 1513	STAKING ANGLE
UA 1609	11.8mm TOP CHANNEL
UA 1610	WINDOW FRAME
UA 1611	DOOR FRAME
UA 5526	SLIDING DOOR CHANNEL
UA 5534	DOUBLE BOTTOM TRACK
UA 5537	DOUBLE TOP TRACK
UA 5633	STAKING ANGLE
UA 5634	VISION RAIL
UA 5635	STAKING ANGLE
UA 5636	DOOR FRAME
UA 5637	WINDOW SECTION
UA 5638	WINDOW SECTION
UA 5699	WINDOW TRACK
UA 6246	WINDOW FRAME

NOTE: RED INDICATES
= MILL RUN ONLY =
NON-STOCKED ITEM

MINIMUM ORDER
QUANTITY 200KG

CONTACT YOUR LOCAL
BRANCH TO ENQUIRE

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UA 1054

WINDOW FRAME
kg/m 0.331 P 124
OAD 34 x 21

UA 1385**UA 1386****UA 1389****UA 1355**

11.8mm BOTTOM CHANNEL (old)
kg/m 0.136 P 67
OAD 14.5 x 8.5

UA 1610**UA 1611****UA 1388****UA 1379**

STAKE (gold) fits 1385,1386
kg/m 2.227 P 264
OAD 50 x 50

UA 1054**UA 1609****UA 1355****UA 1385**

DOOR FRAME
kg/m 0.278 P 104
OAD 30 x 8.5

UA 1386

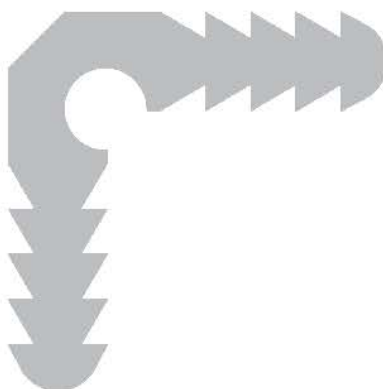
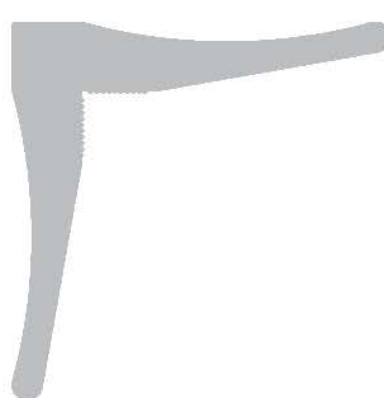
WINDOW FRAME
kg/m 0.237 P 95
OAD 25.5 x 8.5

UA 5636**UA 5637****UA 5638****UA 1388**

DOOR FRAME
kg/m 0.318 P 109
OAD 38 x 10

UA 1389

WINDOW SECTION
kg/m 0.234 P 76
OAD 22.4 x 10

UA 1379**UA 1513****UA 1513**

STAKE (green) fits 1054,1389,1610
kg/m 1.416 P 196
OAD 50 x 50

UA 1609

11.8mm TOP CHANNEL (old)
kg/m 0.149 P 85
OAD 14.5 x 14.5

UA 1610

WINDOW FRAME
kg/m 0.235 P 77
OAD 21.1 x 10.3

UA 1611

DOOR FRAME
kg/m 0.367 P 111
OAD 37.4 x 10.3

UA 5637

WINDOW SECTION
kg/m 0.251 P 96
OAD 25 x 11

UA 5636

DOOR FRAME
kg/m 0.499 P 142
OAD 40 x 17

UA 5638

WINDOW SECTION
kg/m 0.256 P 103
OAD 27.6 x 11

CORNER STAKE - PLASTIC

Fits 1388,1611
Code: FLYSTAKE



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UA 1384



UA 1383



UA 1380



UA 1380

HANDLE

kg/m 0.139 P 86

OAD 24 x 18.5

UA 1383

10mm BOTTOM CHANNEL

kg/m 0.093 P 58

OAD 12.5 x 9

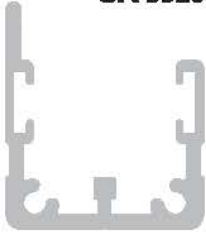
UA 1384

10mm TOP CHANNEL

kg/m 0.120 P 74

OAD 13 x 12.5

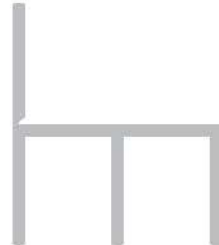
UA 5526



UA 5534



UA 5537



UA 5526

SLIDING DOOR CHANNEL

kg/m 0.468 P 200

OAD 30.15 x 26.1

UA 5534 (MR)

DOUBLE BOTTOM TRACK fits 1610

kg/m 0.297 P 145

OAD 27.7 x 24.5

UA 5537 (MR)

DOUBLE TOP TRACK fits 1610

kg/m 0.373 P 177

OAD 32 x 27.7

UA 5699



UA 6246



UA 5633

STAKE (yellow) fits 5636

kg/m 1.725 P 352

OAD 50 x 50

UA 5635

STAKE (brown) fits 5637

STAKE (purple) fits 5638

kg/m 1.256 P 186

OAD 45 x 45

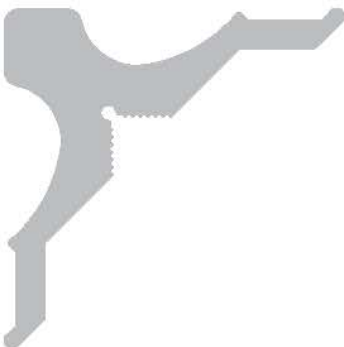
UA 5699

WINDOW TRACK

kg/m 0.209 P 99

OAD 24 x 16

UA 5635



CORNER STAKE - PLASTIC



Fits 6246

Code: CS3

UA 6246 (MR)

WINDOW FRAME

kg/m 0.231 P 88

OAD 25 x 11

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Edition 18 - 2021

UA 1381

VISION RAIL
kg/m 0.730 P 320
OAD 120.3 x 11.5

UA 1382

VISION RAIL
kg/m 0.361 P 200
OAD 60 x 11.4

UA 5634

VISION RAIL
kg/m 0.568 P 250
OAD 90 x 11.5

UA 1382**UA 1381****UA 5634**

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DIE No	DESCRIPTION
UA 1065	BLADE
UA 1089	BLADE
UA 1368	BLADE
UA 1572	BLADE
UA 1661	BLADE
UA 2879	BLADE
UA 2885	FRAME
UA 3101	BLADE
UA 3102	BLADE
UA 3164	BLADE
UA 3431	FRAME
UA 3442	WEATHER BAR
UA 4133	CHANNEL
UA 4134	CHANNEL LID
UA 4203	SILL WEATHER BAR
UA 4204	HEAD WEATHER BAR
UA 4205	EXTENSION
UA 4206	FINNED JOINTER
UA 4230	TORSION BAR
UA 4231	BLADE
UA 5018	BLADE
UA 5022	FIXED BLADE
UA 5032	BRACKET
UA 5033	SUN BLADE
UA 5234	STORM LOUVRE
UA 5354	BLADE
UA 5355	BRACKET
UA 5442	FRAME
UA 5535	MULLION CLIP
UA 5536	MULLION
UA 5545	BLADE
UA 5546	FIXED BLADE
UA 5626	BLADE
UA 5768	BLADE
UA 6401	BLADE
UA 6430	65mm 2-PIECE SQUARE
UA 6526	BLADE
UA 6758	BLADE
UA 6856	BLADE PANEL
UA 6860	BLADE
UA 6876	BLADE
UA 7198	BLADE
UA 7425	BLADE
UA 7452	BLADE
UA 7461	BRACKET
UA 7613	BLADE PANEL
UA 7694	BLADE PANEL
UA 7773	BLADE PANEL
UA 7774	BLADE CHANNEL
UA 7708	BLADE PANEL

NOTE: RED INDICATES
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MINIMUM ORDER
QUANTITY 200KG

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BRANCH TO ENQUIRE

NB: CUSTOMERS ARE TO CONFIRM
THAT THEIR BLADE HOLDERS WILL
SUIT THE DIMENSIONS OF OUR
ULLRICH LOUVRE BLADES BEFORE
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OF ANY INCORRECT BLADES.

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UA 1065

37mm BLADE
kg/m 0.209 P 110
OAD 37 x 18

UA 1368

38mm BLADE fits 2885
kg/m 0.510 P 200
OAD 72 x 38

UA 1572

BLADE fits 4635
kg/m 0.440 P 165
OAD 62.3 x 43.5

UA 1661

31.8mm BLADE fits 1655
kg/m 0.446 P 192
OAD 32 x 71

UA 2885

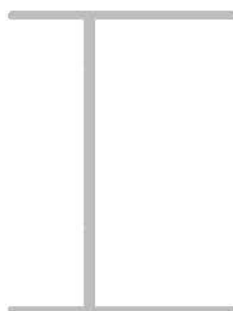
38mm FRAME
kg/m 0.296 P 197
OAD 40 x 30

UA 3164 (MR)

54mm BLADE
kg/m 0.810 P 303
OAD 109.6 x 54

UA 6401 (MR)

38mm BLADE
kg/m 0.439 P 214
OAD 77.8 x 38

UA 1572**UA 1368****UA 1661****UA 1065****UA 6401****UA 3164****UA 2885**

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UA 1089



UA 3101



UA 3102

**UA 1089**

38mm BLADE fits 2885
kg/m 0.522 P 261
OAD 78 x 38

UA 3101

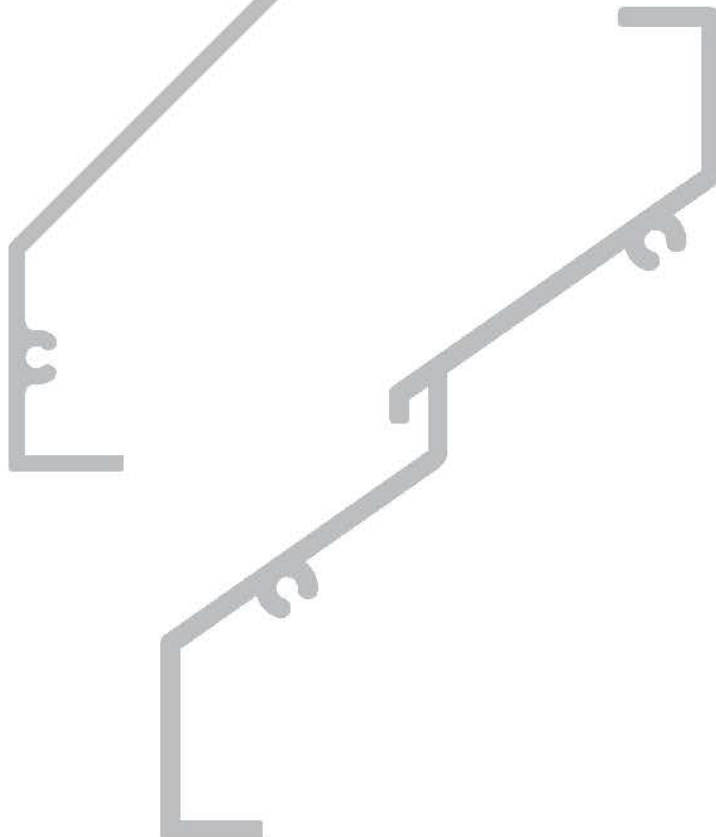
69mm BLADE fits 1671
kg/m 0.961 P 390
OAD 126.5 x 69

UA 3102

94mm BLADE fits 1135
kg/m 1.256 P 460
OAD 151 x 94

UA 7425 (MR)

73.8mm BLADE
kg/m 1.061 P 389
OAD 110 x 73.8

UA 7425

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Edition 18 - 2021

UA 5354

BLADE

kg/m 1.536 P 232

OAD 110 x 22.55

Box Cavity takes 1273

Cast End Cap UC1989

UA 5355

BRACKET fits 5354, 6758

kg/m 0.585 P 178

OAD 64 x 22

UA 6430 (MR)

65 x 65mm 2-PIECE SQUARE

kg/m 1.257 P 349

OAD 65 x 61.15

UA 6526

BLADE

kg/m 0.808 P 186

OAD 89.8 x 12

UA 6758

BLADE

kg/m 2.412 P 373

OAD 180 x 30

Box Cavity takes 1273

Cast End Cap UC1500

UA 6860

BLADE

kg/m 1.315 P 249

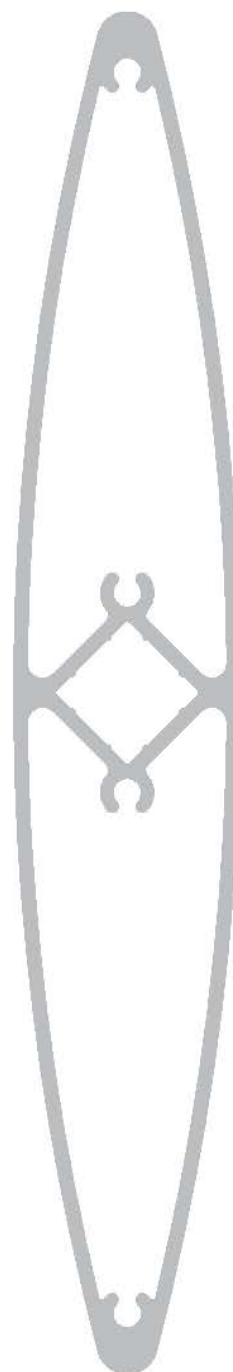
OAD 120 x 18

UA 6876 (MR)

BLADE

kg/m 1.588 P 307

OAD 150 x 18

UA 6526**UA 6876****UA 5355****UA 6758****UA 5354****UA 6860****UA 6430**

Self Mating
Overall 65 X 65mm Square



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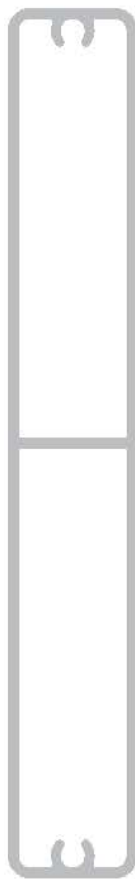
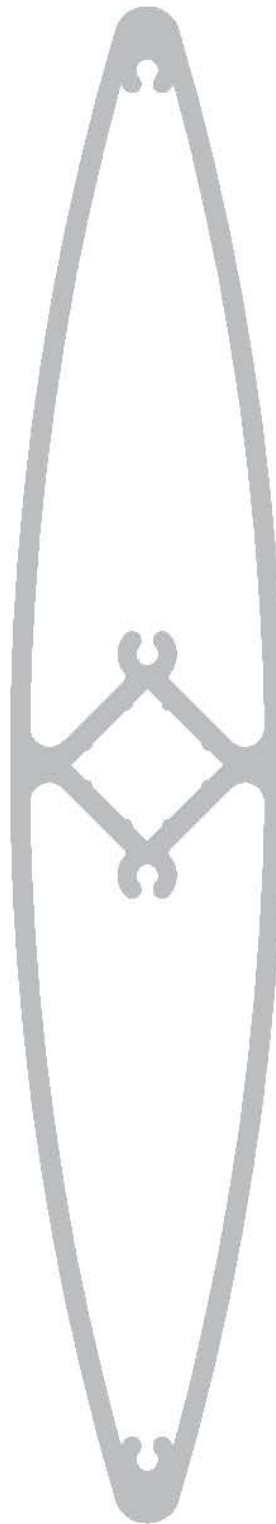
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UA 7198**UA 7613****UA 6856****UA 7694****UA 7452****UA 6856**

BLADE PANEL
kg/m 1.161 P 259
OAD 115 x 17

UA 7198 (MR)

BLADE
kg/m 2.155 P 402
OAD 200 x 12

UA 7452 (MR)

BLADE
kg/m 2.737 P 415
OAD 200.07 x 35.55

UA 7461 (MR)

BRACKET fits 7452
kg/m 1.669 P 263
OAD 99 x 35.94

UA 7613

BLADE PANEL
kg/m 0.647 P 149
OAD 60 x 17

UA 7694

BLADE PANEL
kg/m 1.253 P 279
OAD 125 x 17

UA 7461

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UA 5032 (MR)

BRACKET

kg/m 1.556 P 334

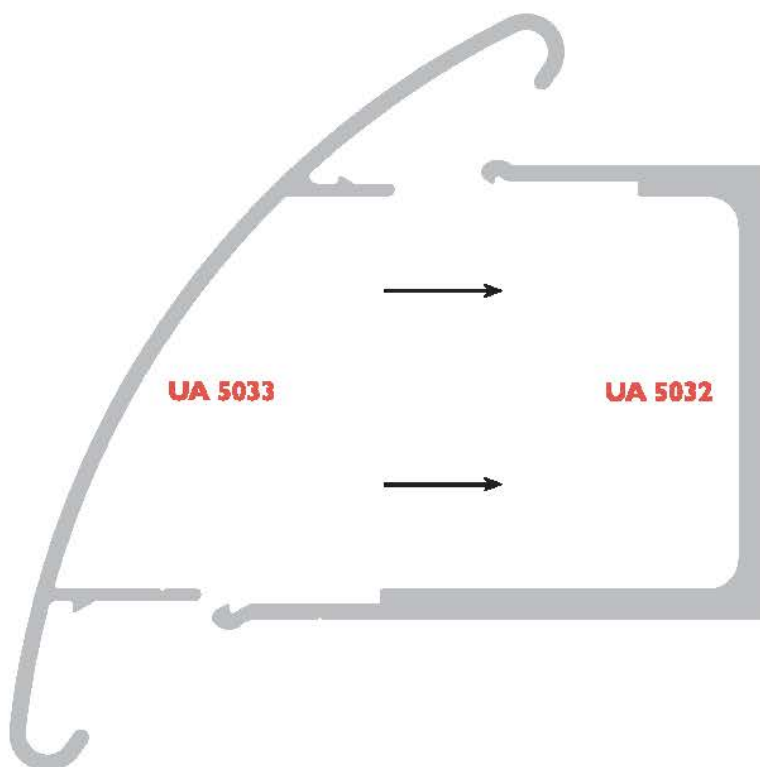
OAD 73.57 x 60

UA 5033 (MR)

SUN BLADE

kg/m 0.932 P 359

OAD 100 x 73.25



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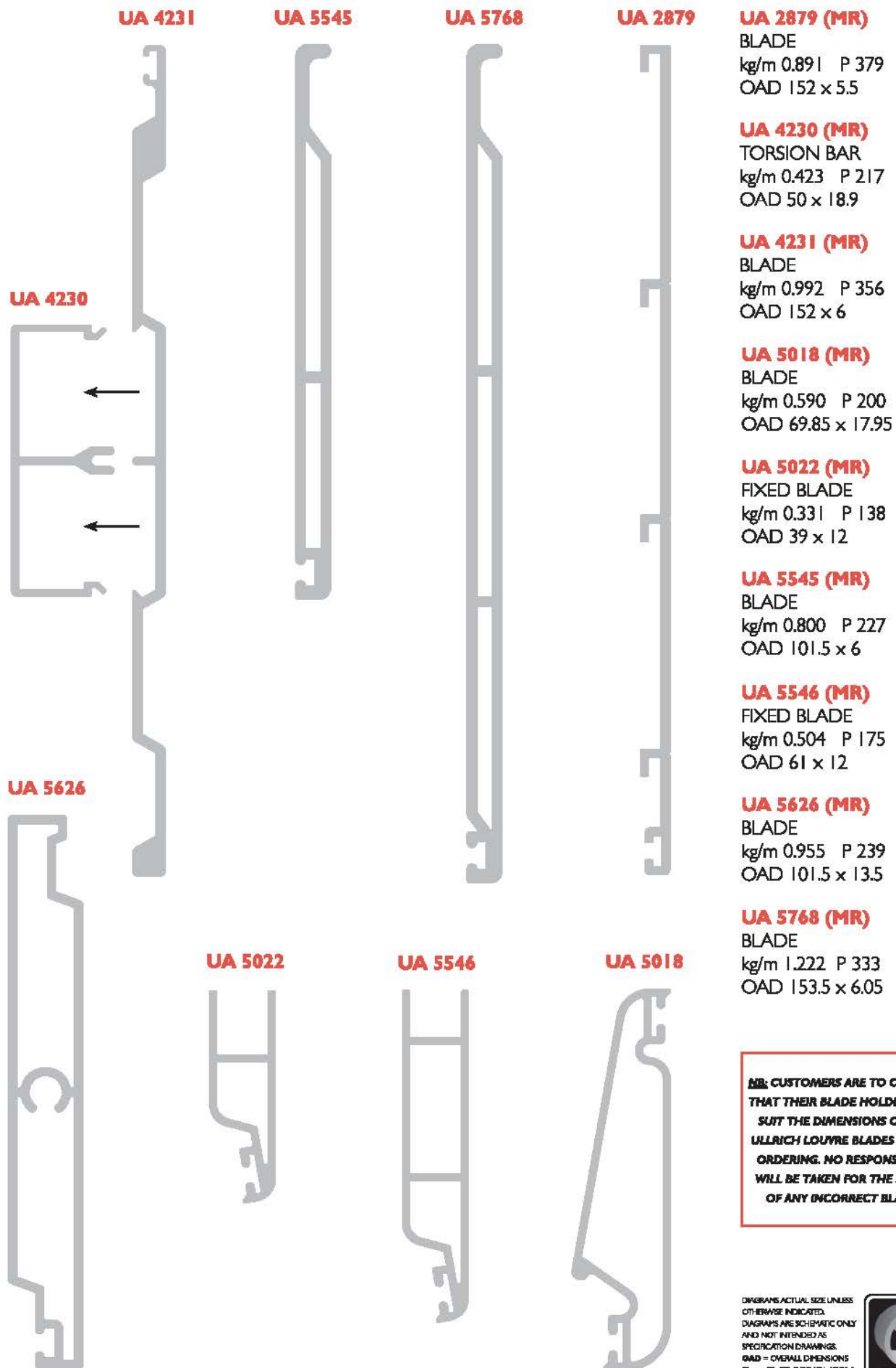
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UA 2879 (MR)
BLADE
kg/m 0.891 P 379
OAD 152 x 5.5

UA 4230 (MR)
TORSION BAR
kg/m 0.423 P 217
OAD 50 x 18.9

UA 4231 (MR)
BLADE
kg/m 0.992 P 356
OAD 152 x 6

UA 5018 (MR)
BLADE
kg/m 0.590 P 200
OAD 69.85 x 17.95

UA 5022 (MR)
FIXED BLADE
kg/m 0.331 P 138
OAD 39 x 12

UA 5545 (MR)
BLADE
kg/m 0.800 P 227
OAD 101.5 x 6

UA 5546 (MR)
FIXED BLADE
kg/m 0.504 P 175
OAD 61 x 12

UA 5626 (MR)
BLADE
kg/m 0.955 P 239
OAD 101.5 x 13.5

UA 5768 (MR)
BLADE
kg/m 1.222 P 333
OAD 153.5 x 6.05

NR: CUSTOMERS ARE TO CONFIRM THAT THEIR BLADE HOLDERS WILL SUIT THE DIMENSIONS OF OUR ULLRICH LOUVRE BLADES BEFORE ORDERING. NO RESPONSIBILITY WILL BE TAKEN FOR THE SUPPLY OF ANY INCORRECT BLADES.

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Edition 18 - 2021

UA 3431

FRAME

kg/m 1.328 P 311

OAD 110 x 20

UA 3442

WEATHER BAR

kg/m 0.437 P 220

OAD 48.74 x 41.49

UA 5234 (MR)

STORM LOUVRE

kg/m 0.769 P 328

OAD 80 x 59

UA 5442 (MR)

FRAME

kg/m 1.114 P 518

OAD 111.4 x 61

UA 5535 (MR)

MULLION CLIP

kg/m 0.399 P 174

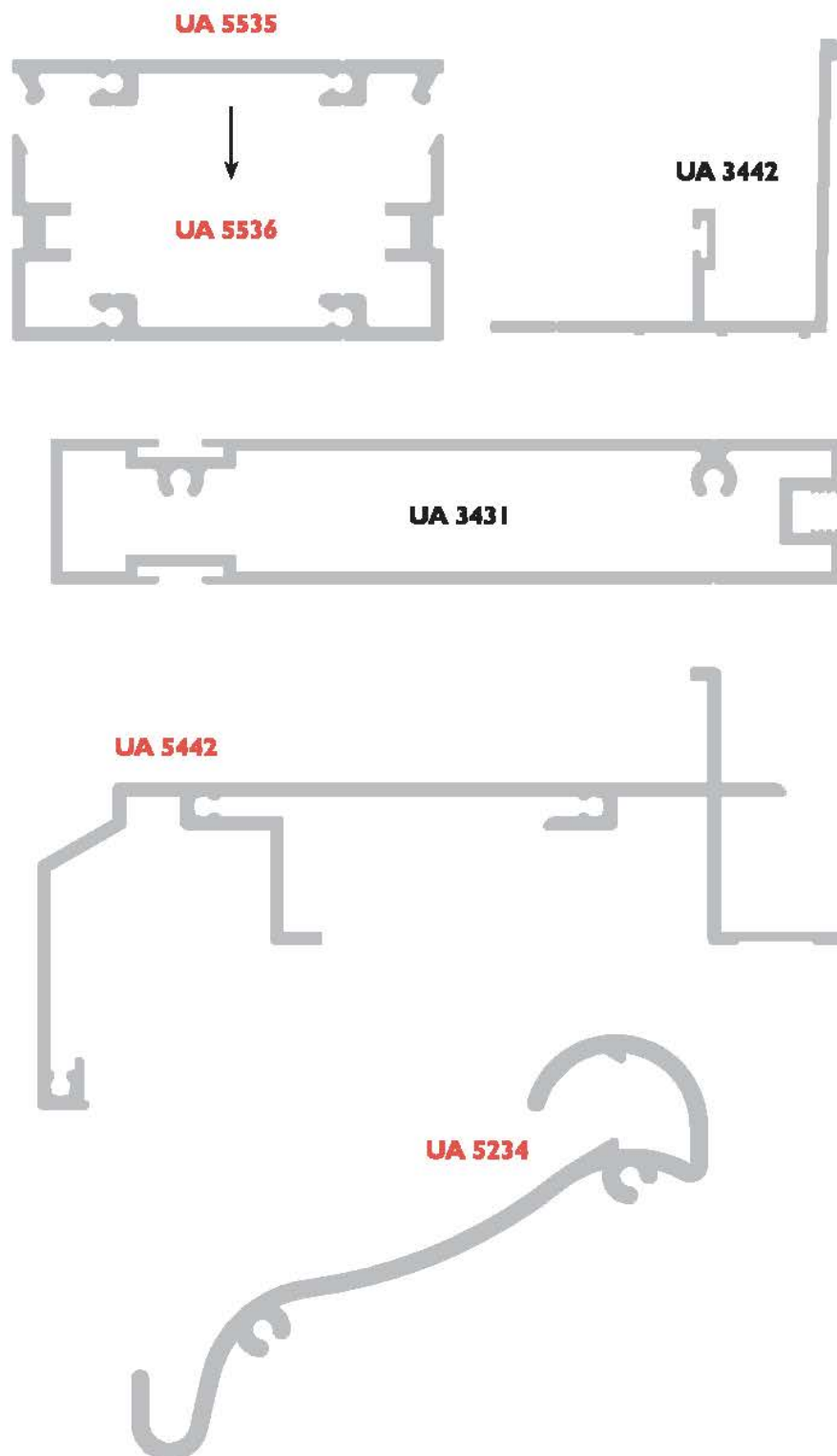
OAD 60 x 6.25

UA 5536 (MR)

MULLION

kg/m 0.724 P 307

OAD 60 x 28.5



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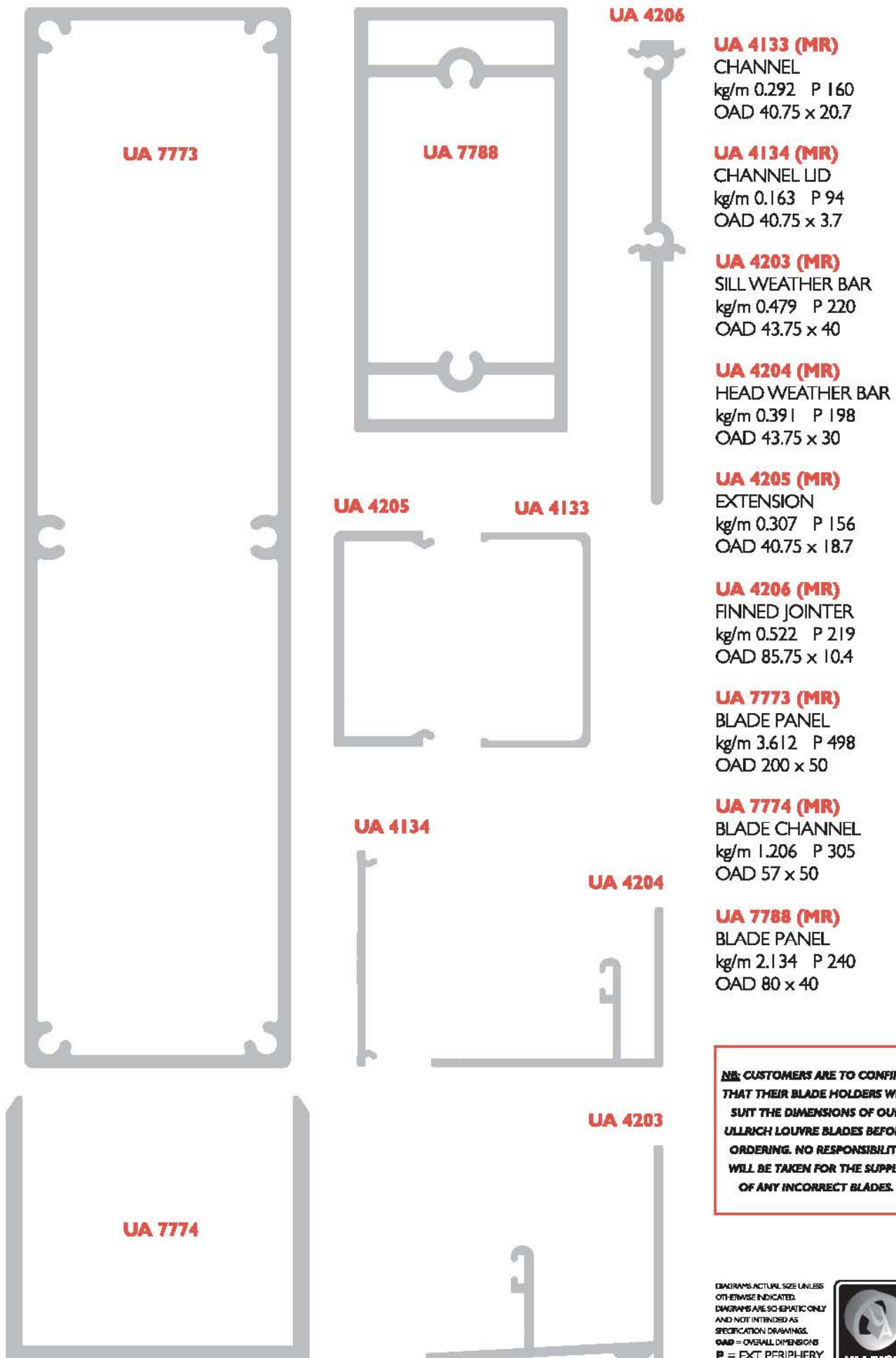
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Edition 18 - 2021

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UA 4133 (MR)
CHANNEL
kg/m 0.292 P 160
OAD 40.75 x 20.7

UA 4134 (MR)
CHANNEL LID
kg/m 0.163 P 94
OAD 40.75 x 3.7

UA 4203 (MR)
SILL WEATHER BAR
kg/m 0.479 P 220
OAD 43.75 x 40

UA 4204 (MR)
HEAD WEATHER BAR
kg/m 0.391 P 198
OAD 43.75 x 30

UA 4205 (MR)
EXTENSION
kg/m 0.307 P 156
OAD 40.75 x 18.7

UA 4206 (MR)
FINNED JOINTER
kg/m 0.522 P 219
OAD 85.75 x 10.4

UA 7773 (MR)
BLADE PANEL
kg/m 3.612 P 498
OAD 200 x 50

UA 7774 (MR)
BLADE CHANNEL
kg/m 1.206 P 305
OAD 57 x 50

UA 7788 (MR)
BLADE PANEL
kg/m 2.134 P 240
OAD 80 x 40

NR: CUSTOMERS ARE TO CONFIRM THAT THEIR BLADE HOLDERS WILL SUIT THE DIMENSIONS OF OUR ULLRICH LOUVRE BLADES BEFORE ORDERING. NO RESPONSIBILITY WILL BE TAKEN FOR THE SUPPLY OF ANY INCORRECT BLADES.

DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED.
DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.
OAD = OVERALL DIMENSIONS
P = EXT PERIPHERY

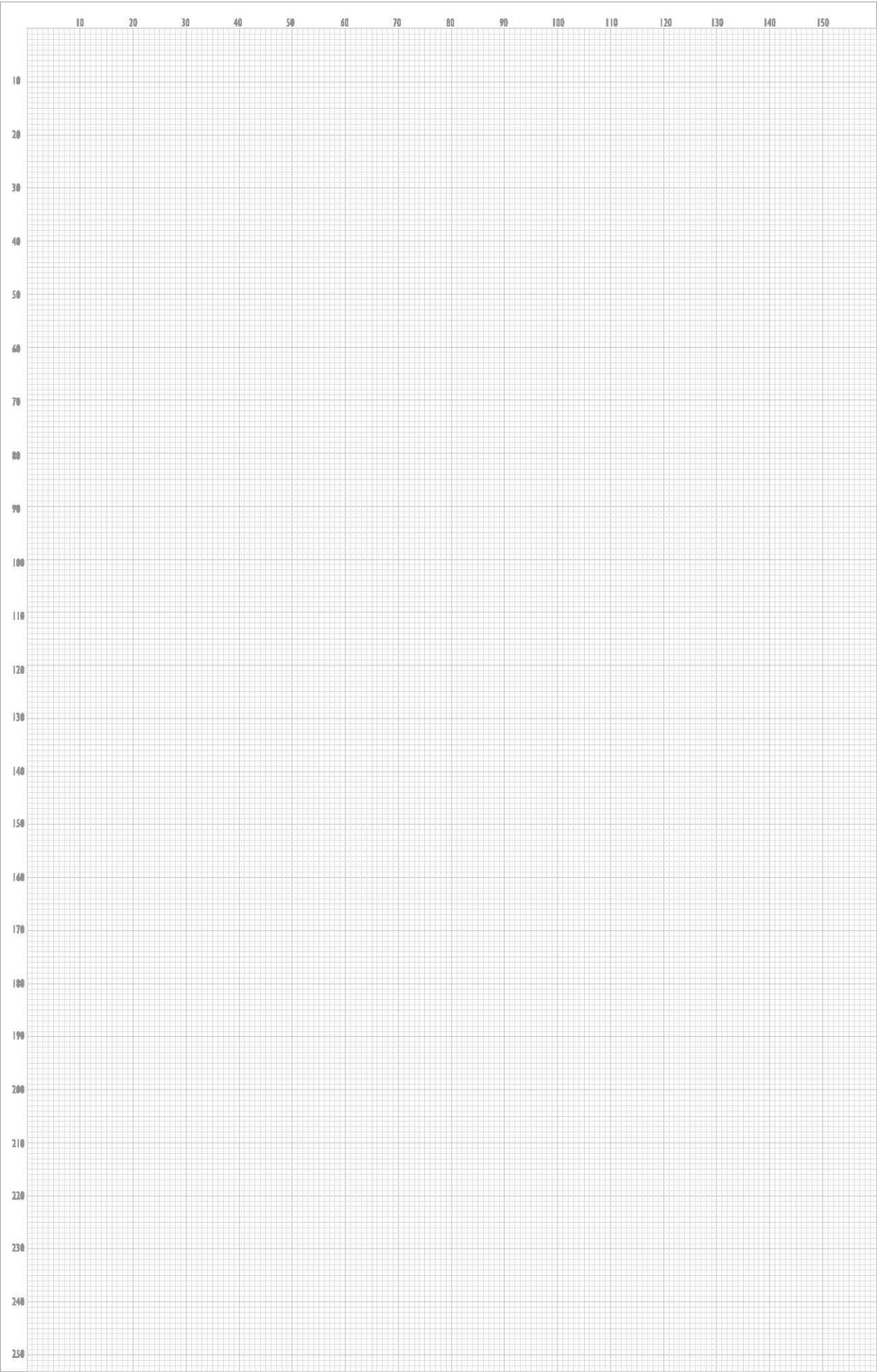
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MR = MILL RUN ONLY • NON-STOCKED ITEM • MINIMUM ORDER 200KG

NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

Edition 18 - 2021



DIE No	DESCRIPTION
UA 9087	32mm BATTEN INNER CLIP
UA 9088	32 X 32mm BATTEN OUTER
UA 9089	32 X 75mm BATTEN OUTER
UA 9090	32 X 100mm BATTEN OUTER
UA 9091	32 X 150mm BATTEN OUTER
UA 10596	50mm BATTEN INNER CLIP
UA 10597	50 X 50mm BATTEN OUTER
UA 10598	50 X 100mm BATTEN OUTER
UA 10599	50 X 150mm BATTEN OUTER
UA 10600	50 X 200mm BATTEN OUTER

**NOTE: RED INDICATES
= MILL RUN ONLY =
NON-STOCKED ITEM**

**MINIMUM ORDER
QUANTITY 200KG**

**CONTACT YOUR LOCAL
BRANCH TO ENQUIRE**

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Edition 18 - 2021

UA 9087

BATTEN INNER CLIP

kg/m 0.373 P 179

OAD 28.4 x 22

UA 9088

32mm BATTEN OUTER

kg/m 0.570 P 268

OAD 32 x 32

UA 9089

32 x 75mm BATTEN OUTER

kg/m 1.161 P 312

OAD 75 x 32

UA 9090

32 x 100mm BATTEN OUTER

kg/m 1.430 P 362

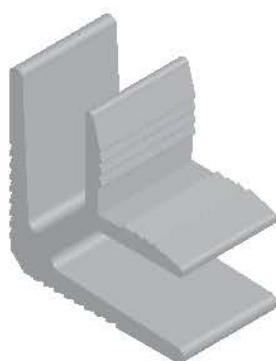
OAD 100 x 32

UA 9091

32 x 150mm BATTEN OUTER

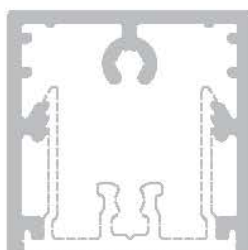
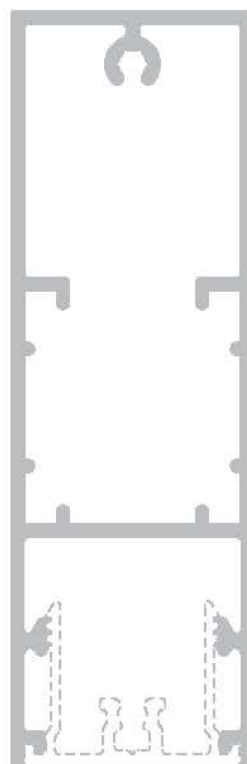
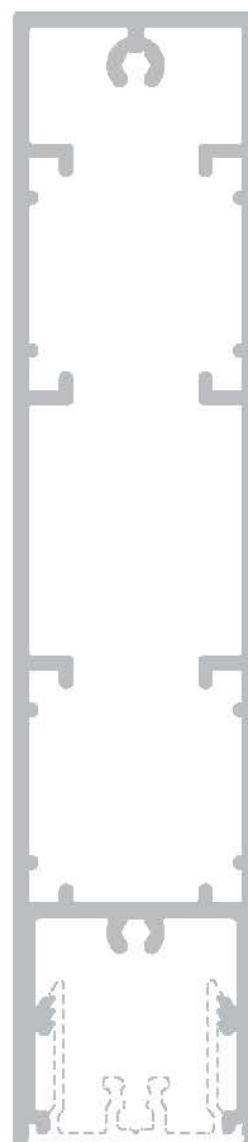
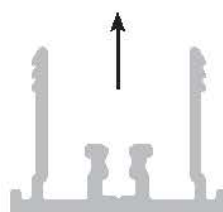
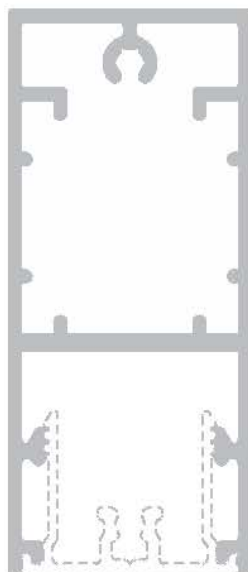
kg/m 2.293 P 470

OAD 150 x 32



**32mm BATTEN
STAKING CORNER**

CODE: BATTEN32MMSTAKE

UA 9088**UA 9090****UA 9091****UA 9089****UA 9087****32mm ULLTRABATTEN END CAPS**

CODE	DESCRIPTION
BATTEN9088EC	32mm x 32mm End Cap
BATTEN9089EC	32mm x 75mm End Cap
BATTEN9090EC	32mm x 100mm End Cap
BATTEN9091EC	32mm x 150mm End Cap



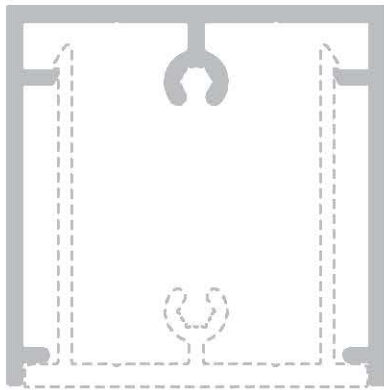
DIAGRAMS ACTUAL SIZE UNLESS
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P = EXT PERIPHERY

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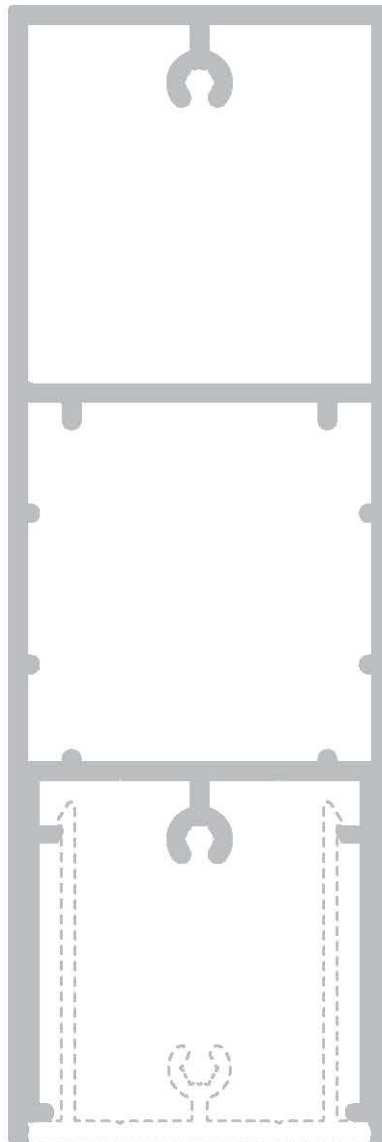
Edition 18 - 2021

MR = MILL RUN ONLY • NON-STOCKED ITEM • MINIMUM ORDER 200KG**NOTE:** Not all products are available ex-stock, check with your local branch for advice on availability.

UA 10597



UA 10599



UA 10596

BATTEN INNER CLIP
kg/m 0.874 P 302
OAD 45.4 x 45.2

UA 10597

50mm BATTEN OUTER
kg/m 0.967 P 364
OAD 50 x 50

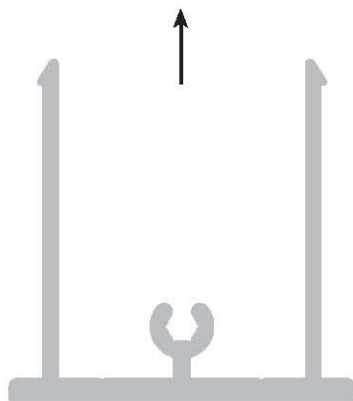
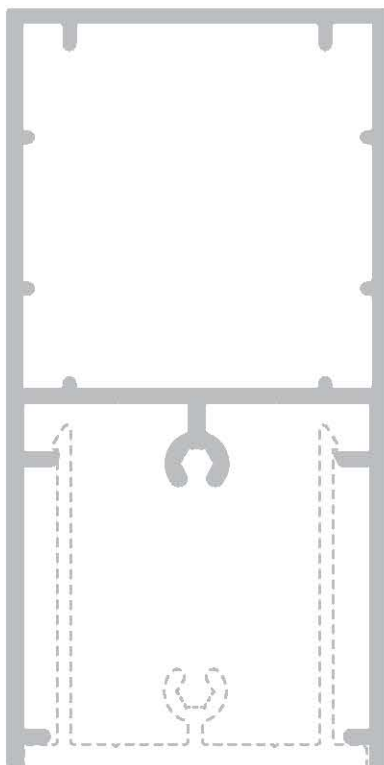
UA 10598

50 x 100mm BATTEN OUTER
kg/m 1.839 P 464
OAD 100 x 50

UA 10599

50 x 150mm BATTEN OUTER
kg/m 3.067 P 552
OAD 150 x 50

UA 10598



UA 10596

50mm ULLTRABATTEN END CAPS

CODE	DESCRIPTION
BATTEN10597EC	50mm x 50mm End Cap
BATTEN10598EC	50mm x 100mm End Cap
BATTEN10599EC	50mm x 150mm End Cap
BATTEN10600EC	50mm x 200mm End Cap

UA 10596

BATTEN INNER CLIP

kg/m 0.874 P 302

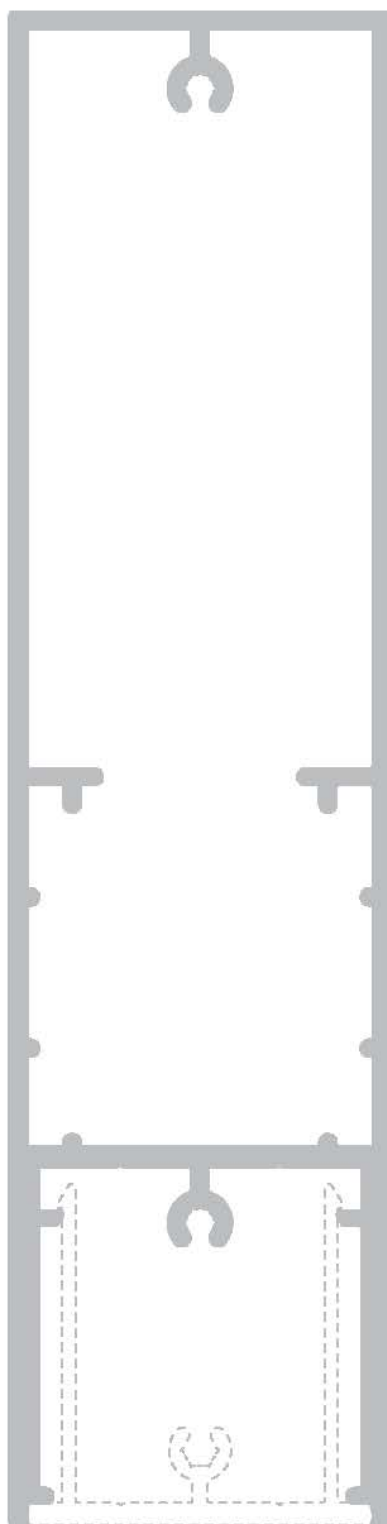
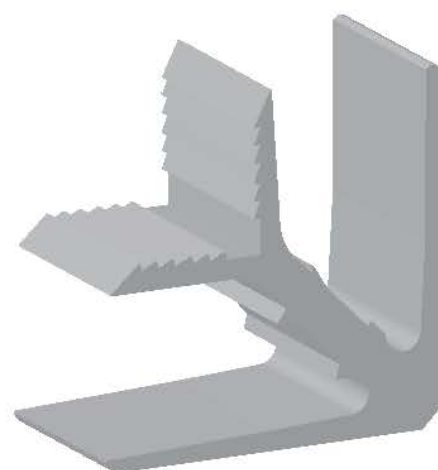
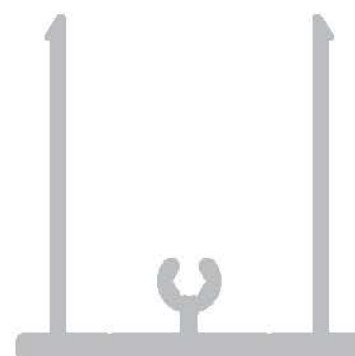
OAD 45.4 x 45.2

UA 10600

50 x 200mm BATTEN OUTER

kg/m 3.520 P 650

OAD 200 x 50

UA 10600**UA 10596**

**50mm BATTEN
STAKING CORNER**
CODE: BATTEN50MMSTAKE



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SPECIFICATION DRAWINGS.
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Edition 18 - 2021

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NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

DIE No	DESCRIPTION
UA 4528	STANDARD BOARD
UA 4532	J - MOULDING
UA 4533	HEAD STARTER
UA 4535	LOCATOR CLIP
UA 4862	BOARD STARTER A
UA 4863	BOARD STARTER B
UA 4917	TEE BOARD
UA 5059	TRADITIONAL BOARD
UA 5831	FLASHING CLIP BASE
UA 5832	LARGE 65mm CLIP TOP
UA 5833	SMALL 30mm CLIP TOP
UA 6323	SCALLOPED JOINTER TOP
UA 6324	BOARD JOINTER BASE
UA 6608	SCALLOPED FEMALE CORNER
UA 6609	SCALLOPED MALE CORNER
UA 6975	SHADOLINE BOARD
UA 7094	FLAT FEMALE CORNER
UA 7095	FLAT MALE CORNER
UA 7096	FLAT JOINTER TOP
UA 7401	INFINITY BOARD
UA 7584	JAMB / SILL CLIP
UA 7726	SHADO 100 BOARD
UA 7837	FIN BOARD
UA 7868	SHADO 140 BOARD
UA 7919	INTER-STOREY FLASHING
UA 7922	SHIPLAP BOARD
UA 7923	ULLTRALINE BOARD
UA 7924	FACING BASE
UA 7925	FACING LID
UA 7937	ULLTRATRAY BOARD

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**MINIMUM ORDER
QUANTITY 200KG**

**CONTACT YOUR LOCAL
BRANCH TO ENQUIRE**

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Edition 18 - 2021

UA 4528 UltraClad
STANDARD BOARD
kg/m 1.003 P 501
OAD 190.5 x 15

UA 6975 UltraClad
SHADOLINE BOARD
kg/m 1.167 P 562
OAD 205 x 15
Can also be fitted VERTICALLY

UA 7401 UltraClad
INFINITY BOARD
kg/m 1.139 P 549
OAD 205 x 15
Can also be fitted VERTICALLY

UA 7726 UltraClad
SHADO 100 BOARD
kg/m 1.303 P 629
OAD 205.16 x 15
Can also be fitted VERTICALLY

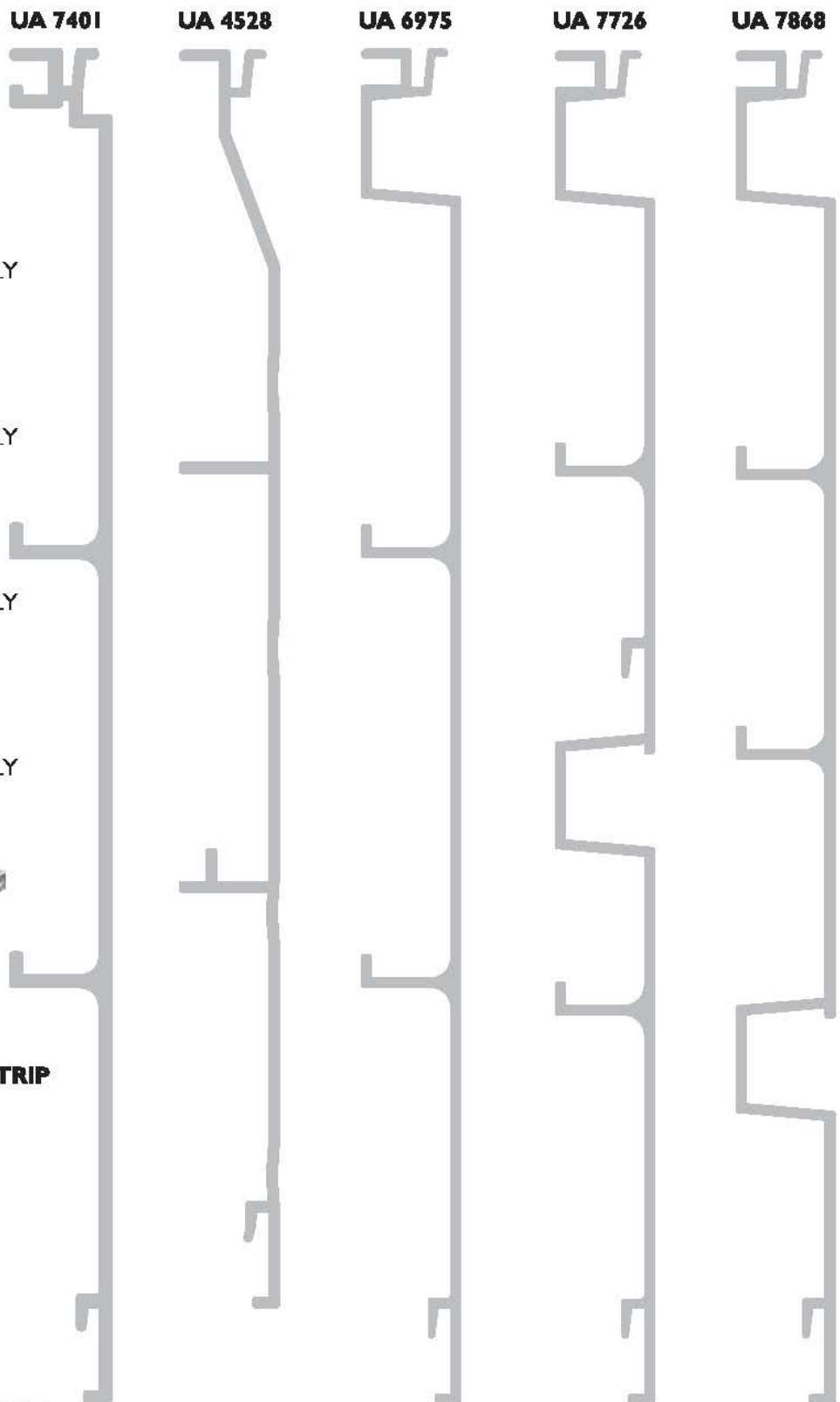
UA 7868 UltraClad
SHADO 140 BOARD
kg/m 1.274 P 614
OAD 205.16 x 15
Can also be fitted VERTICALLY



ALUMINIUM VERMIN STRIP
OAD 120 x 20
Length 2400mm
5mm Round Holes
Code: ALVERMIN2.4



ULLTRACLAD FOAM TAPE
Code: FI-7-010UL



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UA 7923



UA 7922



UA 5059



UA 4917



UA 4917 UltraClad
TEE BOARD
kg/m 0.886 P 444
OAD 150 x 15

UA 5059 UltraClad
TRADITIONAL BOARD
kg/m 0.842 P 424
OAD 157 x 15

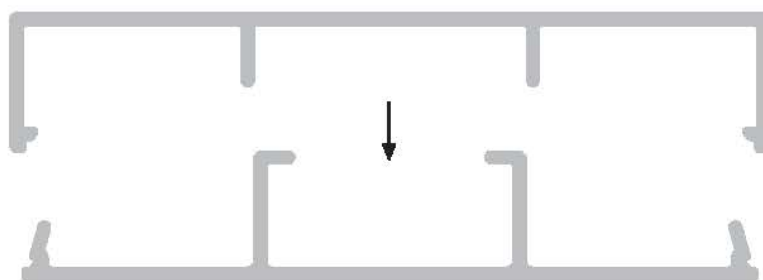
UA 7922 UltraClad
SHIPLAP BOARD
kg/m 0.986 P 472
OAD 164.07 x 15
Can also be fitted VERTICALLY

UA 7923 UltraClad
ULLTRALINE BOARD
kg/m 1.176 P 566
OAD 206.18 x 15
Can also be fitted VERTICALLY

UA 7924 UltraClad
FACING BASE
kg/m 0.546 P 292
OAD 96.8 x 16.8

UA 7925 UltraClad
FACING LID
kg/m 0.537 P 304
OAD 100 x 18

UA 7925



UA 7924

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Edition 18 - 2021

UA 7837 UltraClad
FIN BOARD
kg/m 3.445 P 857
OAD 193 x 40
VERTICAL FIT ONLY

UA 7937 UltraClad
ULLTRATRAY BOARD
kg/m 1.355 P 627
OAD 205 x 15
VERTICAL FIT ONLY

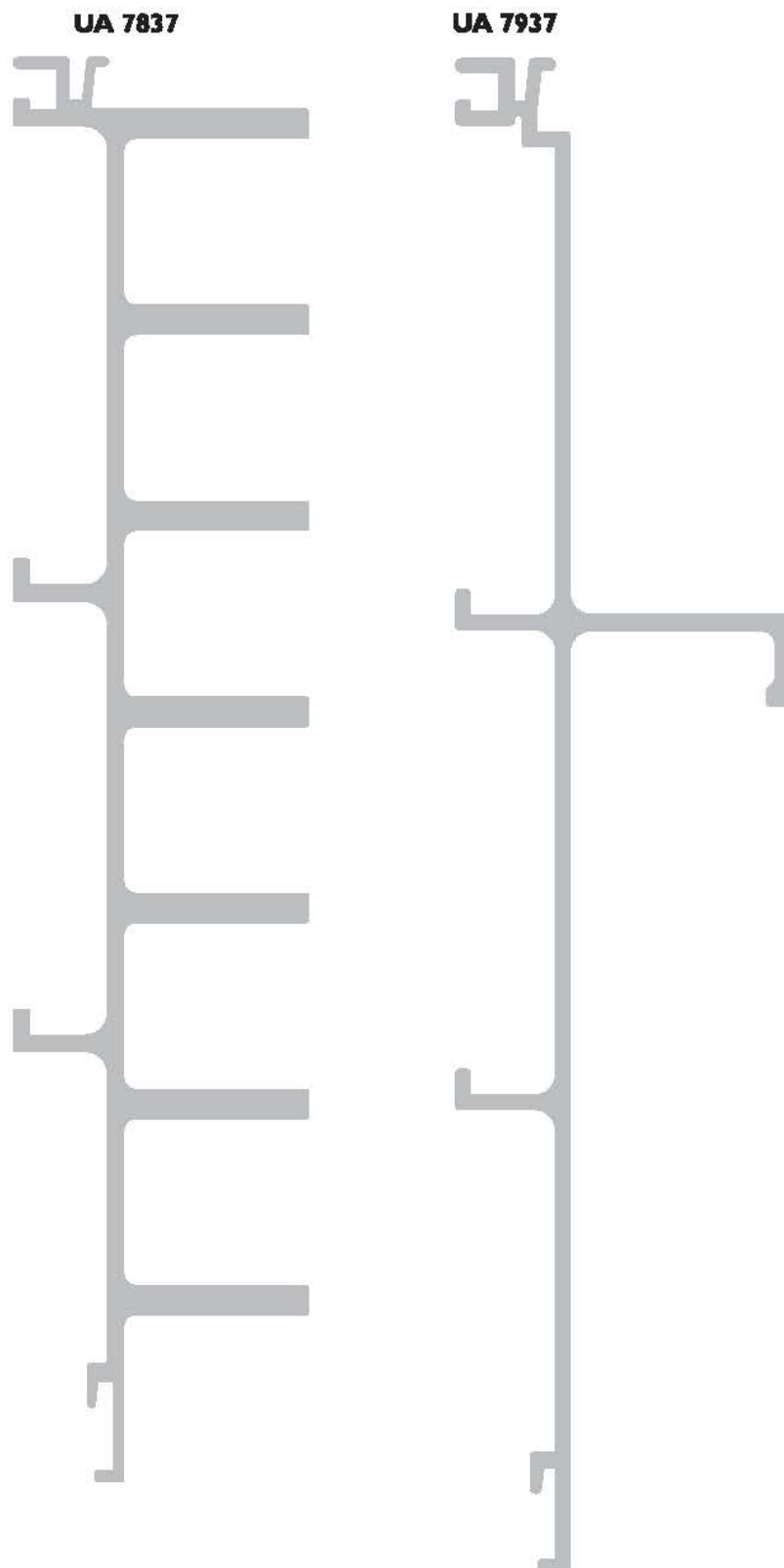
IMPORTANT NOTICE:

Please be aware that both of these boards:-

UA 7837 FIN BOARD

UA 7937 ULLTRATRAY BOARD
will require specialised flashings relating to their installation.

They cannot be used in conjunction with our existing standard flashing components.



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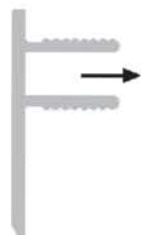
Edition 18 - 2021

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UA 5833



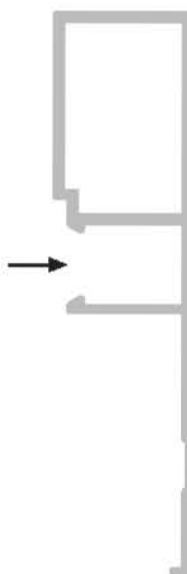
UA 5832



UA 5831



UA 7584



UA 4532 UltraClad
J - MOULDING
kg/m 0.420 P 214
OAD 65 x 18.5

UA 4533 UltraClad
HEAD STARTER
kg/m 0.497 P 249
OAD 78.77 x 37.33

UA 4535 UltraClad
LOCATOR CLIP
With Screws (Bags 100)
kg/m 0.198 P 105
OAD 35.8 x 13.9

UA 4862 UltraClad
BOARD STARTER A
kg/m 0.448 P 228
OAD 94.5 x 15

UA 4863 UltraClad
BOARD STARTER B
kg/m 0.554 P 280
OAD 95 x 18.5

UA 5831 UltraClad
FLASHING CLIP BASE
kg/m 0.416 P 198
OAD 70 x 15

UA 5832 UltraClad
LARGE 65mm CLIPTOP
kg/m 0.367 P 189
OAD 65 x 14

UA 5833 UltraClad
SMALL 30mm CLIPTOP
kg/m 0.215 P 119
OAD 30 x 14

UA 7584 UltraClad
JAMB / SILL CLIP
kg/m 0.600 P 222
OAD 75 x 18.5

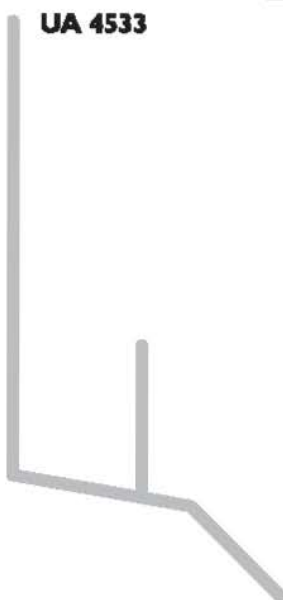
UA 4535



UA 4863



UA 4533



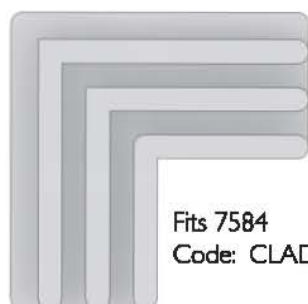
UA 4862



UA 4532



CORNER STAKE - PLASTIC



Fits 7584
Code: CLADSTAKECNR

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Edition 18 - 2021

UA 6323 UltraClad
SCALLOPED JOINTER TOP
kg/m 0.338 P 184
OAD 63 x 13.9

UA 6324 UltraClad
BOARD JOINTER BASE
kg/m 0.536 P 269
OAD 100 x 17

UA 6608 UltraClad
SCALLOPED FEMALE CORNER
kg/m 0.680 P 355
OAD 70.1 x 70.1

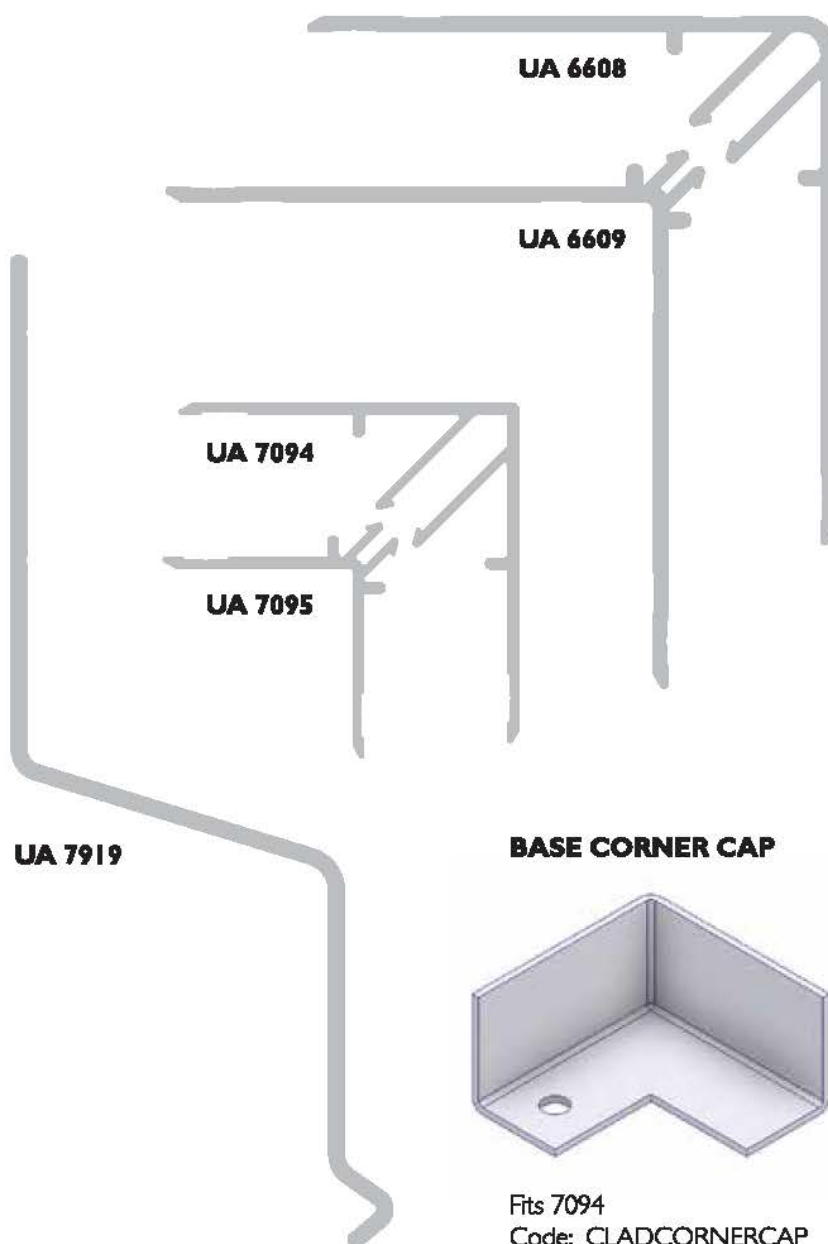
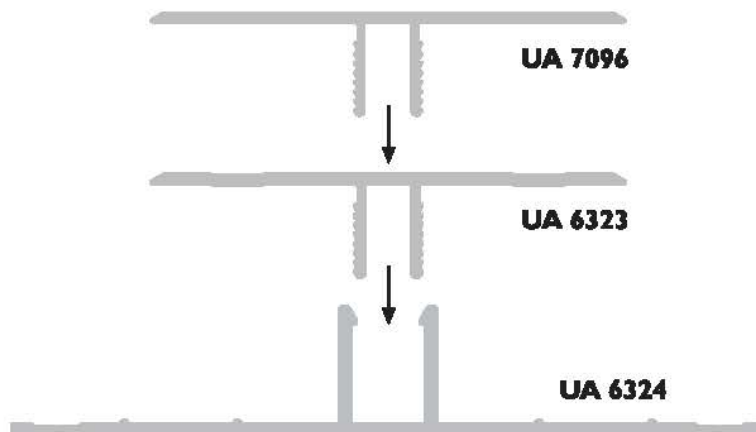
UA 6609 UltraClad
SCALLOPED MALE CORNER
kg/m 0.594 P 300
OAD 71.3 x 71.3

UA 7094 UltraClad
FLAT FEMALE CORNER
kg/m 0.465 P 257
OAD 45 x 45

UA 7095 UltraClad
FLAT MALE CORNER
kg/m 0.266 P 147
OAD 32.81 x 32.81

UA 7096 UltraClad
FLAT JOINTER TOP
kg/m 0.338 P 184
OAD 63 x 13.9

UA 7919
INTER-STOREY FLASHING
kg/m 0.710 P 333
OAD 130.76 x 50



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Edition 18 - 2021

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DIE No DESCRIPTION

DESIGNER PARTITIONING SYSTEM

UA 1609	LOCATION CHANNEL
UA 1934	13mm GIB LINING CAP
UA 7250	13mm GIB HEAD STARTER
UA 7251	RECESSED STARTER CAP
UA 7252	13mm GIB RECESSED STARTER
UA 7253	13mm GIB HEAD STARTER
UA 7254	RECESSED STARTER CAP
UA 7255	13mm GIB RECESSED DOOR STARTER
UA 7256	16mm GIB HEAD STARTER
UA 7257	RECESSED STARTER CAP
UA 7258	STARTER FLUSH CAP
UA 7259	40mm DOOR STOP
UA 7260	50mm DOOR STOP
UA 7261	STARTER FLUSH CAP
UA 7262	40mm DOOR STOP
UA 7263	50mm DOOR STOP
UA 7264	ADJUSTABLE DOOR STOP
UA 7265	DOOR STOP CAP
UA 7266	DOOR STOP CAP
UA 7267	GLAZING BASE
UA 7268	GLAZING BEAD
UA 7269	GLAZING BEAD
UA 7270	GLAZING BASE
UA 7271	GLAZING BEAD
UA 7272	GLAZING BEAD
UA 7273	RECESSED GLAZING MULLION CAP
UA 7274	13mm GIB RECESSED STARTER
UA 7275	RECESSED GLAZING MULLION CAP
UA 7276	DOOR TOP RAIL
UA 7277	SLIDING DOOR BOTTOM RAIL
UA 7278	GLAZING BEAD
UA 7279	GLAZING BEAD
UA 7280	DOOR SIDE RAIL
UA 7281	SLIDE CAP
UA 7282	SLIDE INFILL - WOOLPILE
UA 7283	SLIDE INFILL - SIDE WOOLPILE
UA 7284	SLIDING DOOR TOP CHANNEL
UA 7285	DOOR SIDE CHANNEL
UA 7286	BOTTOM DOOR TRACK
UA 7287	DOOR CENTRE MULLION
UA 7742	104mm RECESSED GLAZING MULLION POST
UA 7743	132mm RECESSED GLAZING MULLION POST
UA 7785	RECESSED DOOR STARTER CAP
UA 7840	OFFSET GLAZING BASE
UA 9081	HALF HEIGHT WALL GLAZING BASE
UA 9082	GLAZING BEAD
UA 9083	GLAZING BEAD
UA 9084	HALF HEIGHT WALL GLAZING BASE
UA 9085	GLAZING BEAD
UA 9086	GLAZING BEAD

DIE No DESCRIPTION

DESIGNER 1000 PARTITIONING SYSTEM

UA 1034	GLAZING BAR BASE
UA 1035	GLAZING BEAD
UA 1046	DOOR PILLAR POST
UA 1047	PILLAR POST JAMB
UA 1313	DOUBLE GLAZING CAP
UA 1314	DOUBLE GLAZING BASE
UA 1315	DOOR JAMB CAP
UA 1316	DOOR JAMB
UA 1672	26mm HEAD STARTER
UA 1788	DOOR JAMB
UA 2062	DOOR JAMB
UA 2400	GLAZING BAR MULLION
UA 3209	GLAZING BEAD
UA 4362	13mm GIB HEAD STARTER
UA 4363	13mm STARTER CAP
UA 4364	13mm STARTER CAP
UA 6542	13mm GIB HEAD STARTER

TOILET PARTITIONING SYSTEM

UA 1573	WALL MOUNT
UA 5949	18mm CAPPING
UA 6453	18mm JOINTER
UA 6454	18mm DOOR STOP CAP
UA 6455	18mm CORNER
UA 7025	11mm INSERT

**NOTE: RED INDICATES
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NON-STOCKED ITEM**

**MINIMUM ORDER
QUANTITY 200KG**

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Edition 18 - 2021

UA 7250

13mm GIB HEAD STARTER
For 63.5mm Steel Stud
kg/m 0.931 P 515
OAD 104 x 37.3

UA 7251

RECESSED STARTER CAP
kg/m 0.660 P 347
OAD 104 x 26

UA 7252

13mm GIB RECESSED STARTER
For 63.5mm Steel Stud
kg/m 1.210 P 617
OAD 104 x 37.3

UA 7258

STARTER FLUSH CAP
If Powdercoated
kg/m 0.203 P 126
OAD 27.3 x 18.8

UA 7259

40mm DOOR STOP
If Powdercoated
kg/m 0.303 P 156
OAD 29.14 x 27.3

UA 7260

50mm DOOR STOP
If Powdercoated
kg/m 0.303 P 156
OAD 29.14 x 27.3

UA 7261

STARTER FLUSH CAP
If Anodised
kg/m 0.210 P 127
OAD 27.6 x 18.75

UA 7262

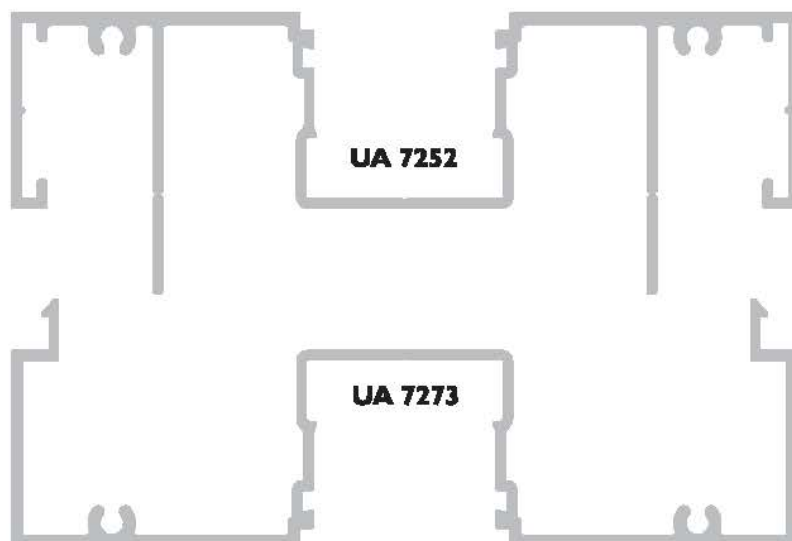
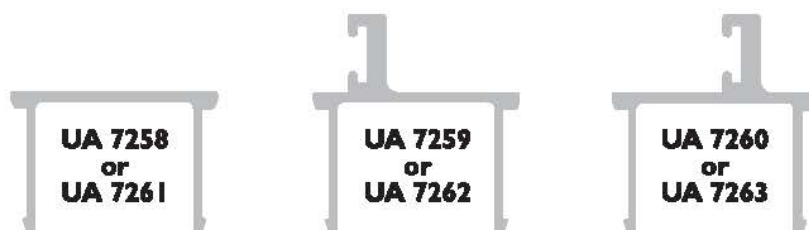
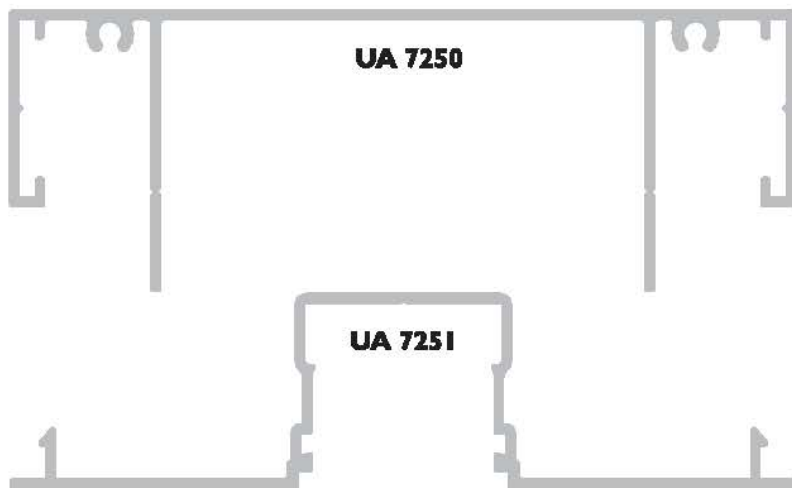
40mm DOOR STOP
If Anodised
kg/m 0.309 P 156
OAD 29.09 x 27.6

UA 7263

50mm DOOR STOP
If Anodised
kg/m 0.309 P 156
OAD 29.09 x 27.6

UA 7273

RECESSED GLAZING
MULLION CAP
kg/m 0.971 P 491
OAD 104 x 32.8



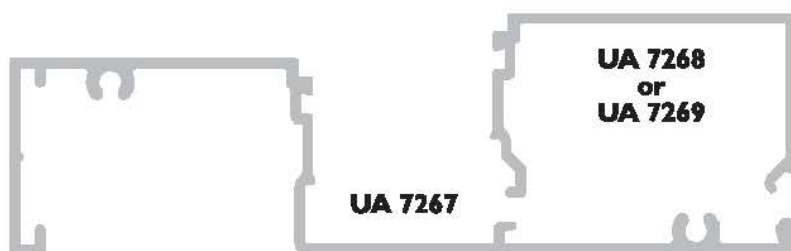
DIAGRAMS ACTUAL SIZE UNLESS
OTHERWISE INDICATED.
DIAGRAMS ARE SCHEMATIC ONLY
AND NOT INTENDED AS
SPECIFICATION DRAWINGS.
OAD = OVERALL DIMENSIONS
P = EXT PERIPHERY

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Edition 18 - 2021

MR = MILL RUN ONLY • NON-STOCKED ITEM • MINIMUM ORDER 200KG

NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

**UA 1934**

13mm GIB LINING CAP
kg/m 0.353 P 176
OAD 35.8 x 20

UA 7267

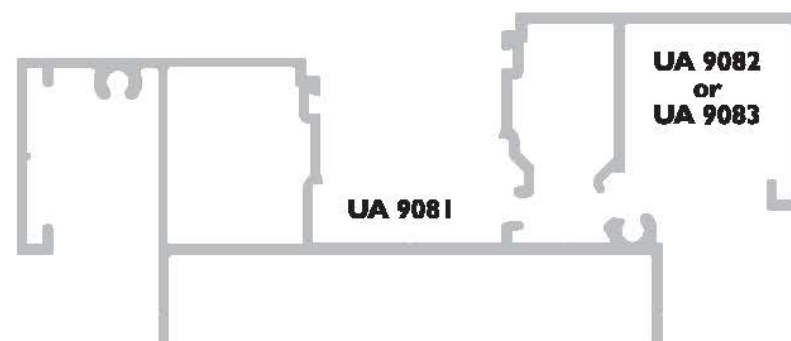
GLAZING BASE
kg/m 0.730 P 373
OAD 104 x 26

UA 7268

GLAZING BEAD
If Powdercoated
kg/m 0.324 P 184
OAD 40 x 24.35

UA 7269

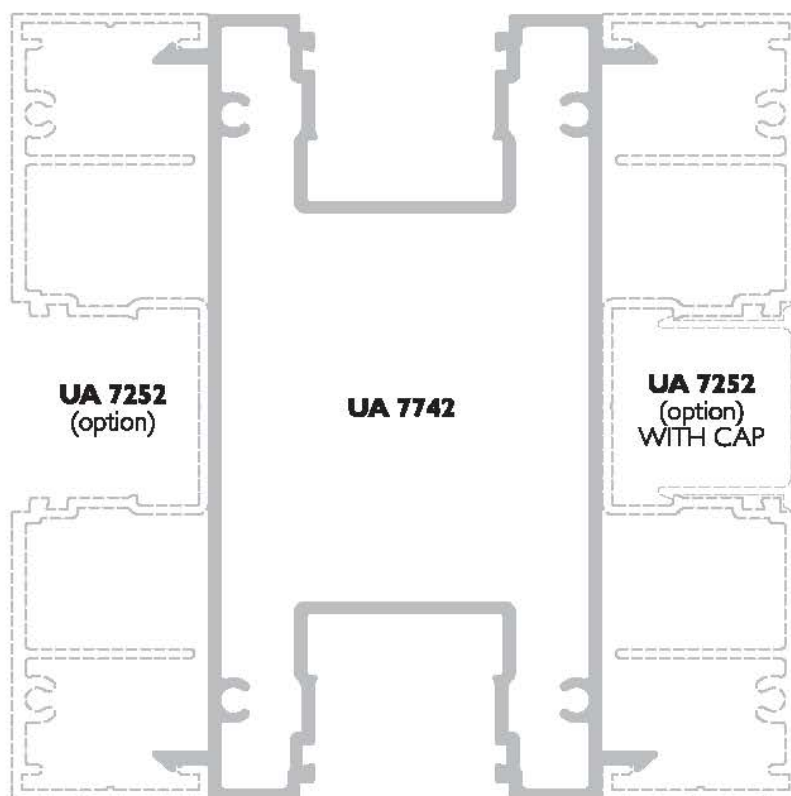
GLAZING BEAD
If Anodised
kg/m 0.327 P 186
OAD 40 x 24.35

**UA 7742**

104mm RECESSED
GLAZING MULLION POST
kg/m 2.310 P 490
OAD 104 x 66.73

UA 9081

HALF HEIGHT WALL
GLAZING BASE
For 63.5mm Steel Stud
kg/m 0.877 P 376
OAD 85.30 x 38

**UA 9082**

GLAZING BEAD
If Powdercoated
kg/m 0.432 P 244
OAD 40 x 26

UA 9083

GLAZING BEAD
If Anodised
kg/m 0.435 P 246
OAD 40 x 26



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Edition 18 - 2021

UA 7253

13mm GIB
HEAD STARTER
For 92mm Steel Stud
kg/m 1.030 P 571
OAD 132 x 37.3

UA 7254

RECESSED STARTER CAP
kg/m 0.774 P 403
OAD 132 x 26

UA 7255

13mm GIB RECESSED
DOOR STARTER
For 92mm Steel Stud
kg/m 1.314 P 675
OAD 132 x 37.3

UA 7274

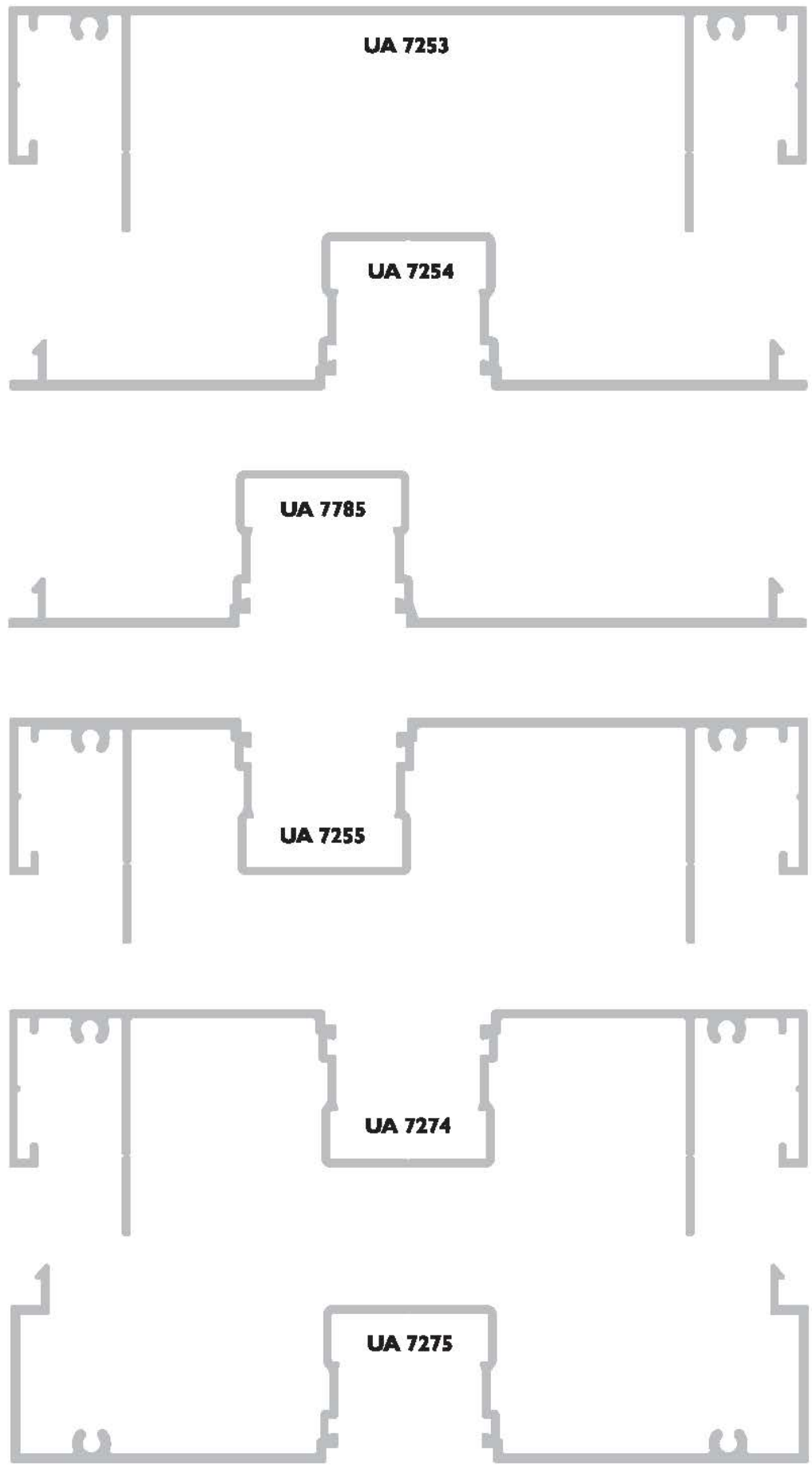
13mm GIB RECESSED
STARTER
For 92mm Steel Stud
kg/m 1.234 P 679
OAD 132 x 37.3

UA 7275

RECESSED GLAZING
MULLION CAP
kg/m 1.085 P 547
OAD 132 x 32.8

UA 7785

RECESSED DOOR
STARTER CAP
kg/m 0.774 P 403
OAD 132 x 26



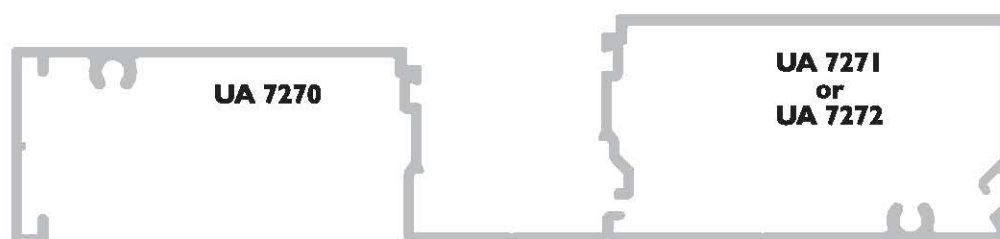
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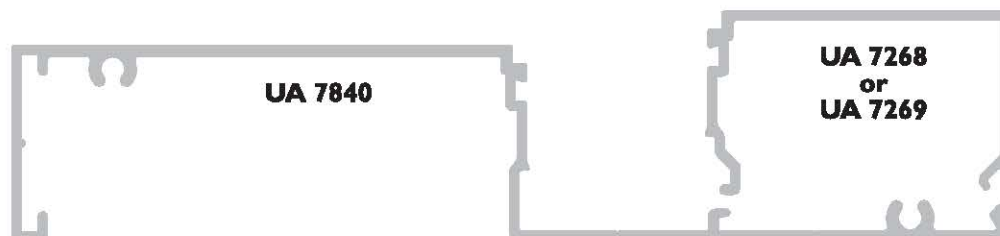
NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.



UA 7270

UA 7271
or
UA 7272

UA 7268
GLAZING BEAD
If Powdercoated
kg/m 0.324 P 184
OAD 40 x 24.35

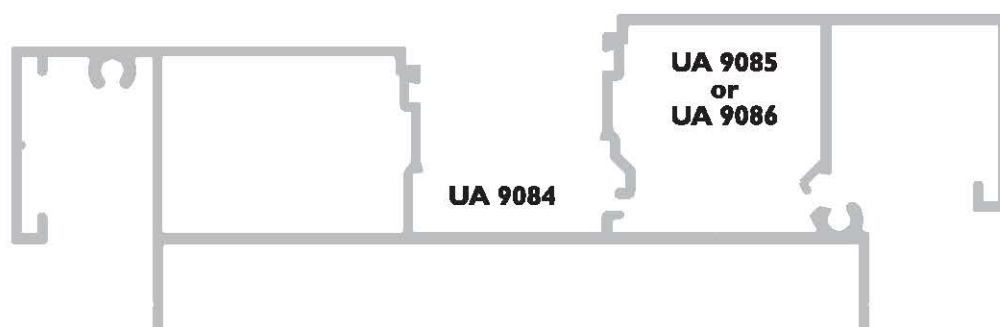


UA 7840

UA 7268
or
UA 7269

UA 7269
GLAZING BEAD
If Anodised
kg/m 0.327 P 186
OAD 40 x 24.35

UA 7270
GLAZING BASE
kg/m 0.836 P 429
OAD 132 x 26

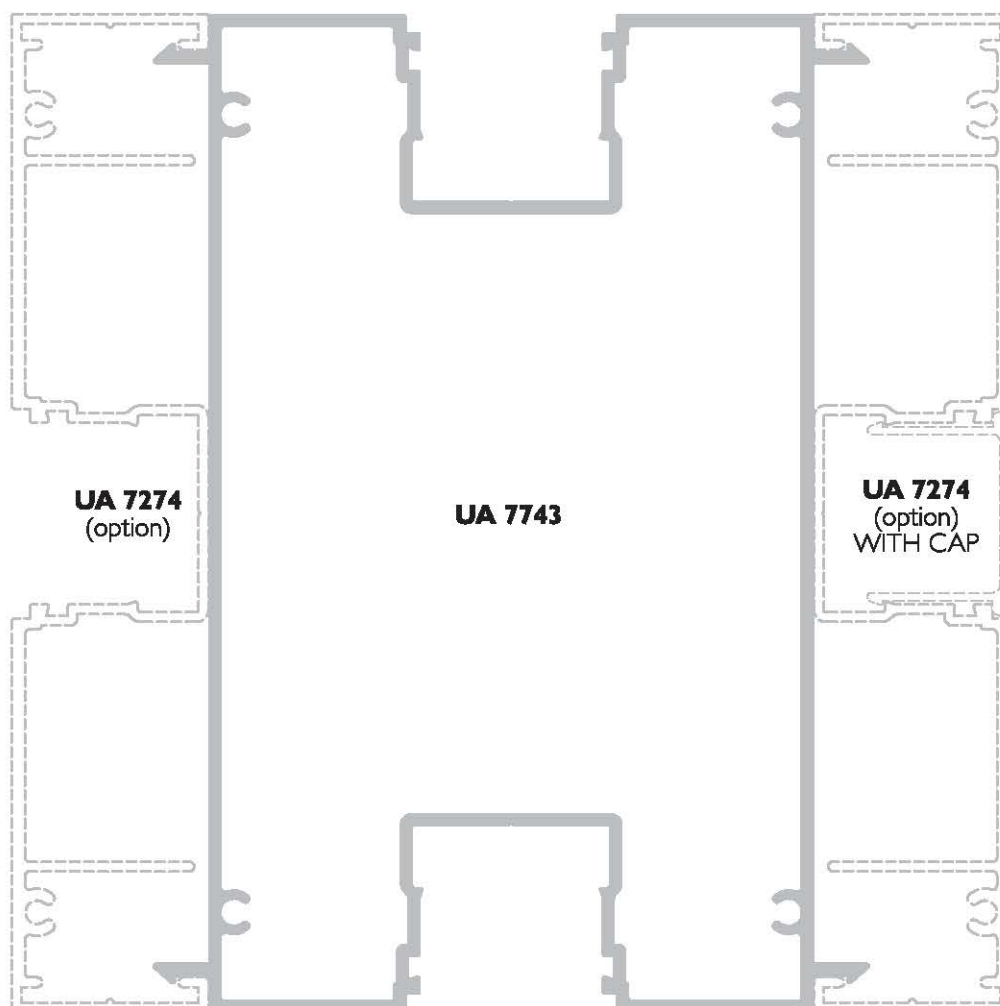


UA 9084

UA 9085
or
UA 9086

UA 7271
GLAZING BEAD
If Powdercoated
kg/m 0.373 P 212
OAD 54 x 24.35

UA 7272
GLAZING BEAD
If Anodised
kg/m 0.376 P 214
OAD 54 x 24.35

UA 7274
(option)

UA 7743

UA 7274
(option)
WITH CAP

UA 7743
132mm RECESSED
GLAZING MULLION POST
kg/m 2.854 P 602
OAD 132 x 94.73

UA 7840
OFFSET GLAZING BASE
kg/m 0.858 P 428
OAD 132 x 26

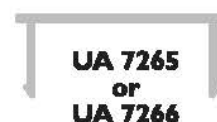
UA 9084
HALF HEIGHT WALL
GLAZING BASE
For 92mm Steel Stud
kg/m 1.040 P 432
OAD 113.30 x 38

UA 9085
GLAZING BEAD
If Powdercoated
kg/m 0.481 P 272
OAD 54 x 26

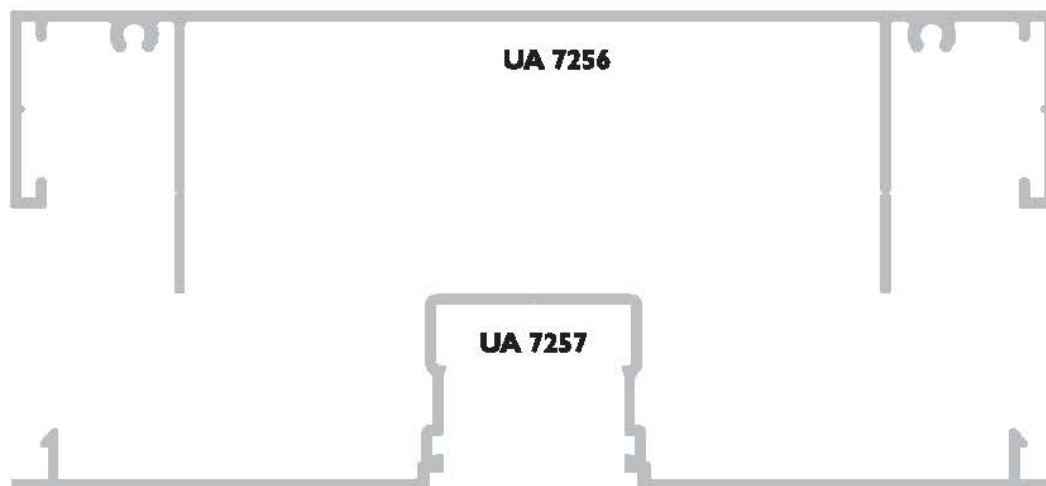
UA 9086
GLAZING BEAD
If Anodised
kg/m 0.484 P 274
OAD 54 x 26

UA 1609

LOCATION CHANNEL fits 7277
kg/m 0.149 P 85
OAD 14.5 x 14.5

**UA 7264****UA 7265
or
UA 7266****UA 7256**

16mm GIB HEAD STARTER
For 92mm Steel Stud
kg/m 1.048 P 581
OAD 138 x 37.3

**UA 7256****UA 7257****UA 7257**

RECESSED
STARTER CAP
kg/m 0.798 P 415
OAD 138 x 26

UA 7264

ADJUSTABLE
DOOR STOP
kg/m 0.561 P 132
OAD 35 x 15

UA 7265

DOOR STOP CAP
If Powdercoated
kg/m 0.145 P 98
OAD 28 x 11.1

UA 7266

DOOR STOP CAP
If Anodised
kg/m 0.147 P 98
OAD 28.3 x 11.06

**UA 7284****UA 7285****UA 7284**

SLIDING DOOR
TOP GUIDE
kg/m 0.723 P 285
OAD 50 x 40

UA 7285

DOOR SIDE CHANNEL
kg/m 0.561 P 225
OAD 50 x 25

UA 1609

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UA 7283



UA 7282



UA 7281



UA 7276

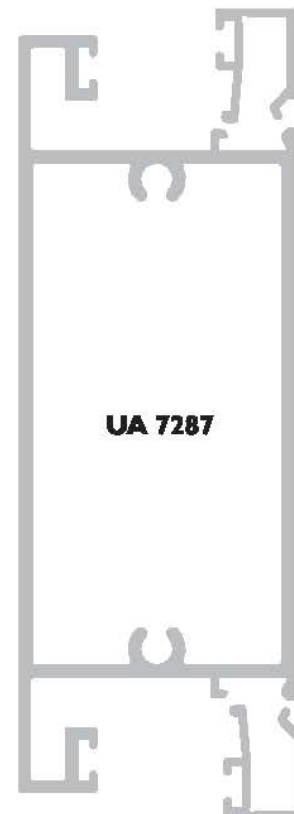


UA 7280

UA 7278
or
UA 7279



UA 7277



UA 7287



UA 7286

UA 7276

DOORTOP RAIL
kg/m 1.133 P 294
OAD 75 x 36.5

UA 7277

SLIDING DOOR BOTTOM RAIL
kg/m 1.571 P 437
OAD 100 x 36.5
Takes Adj Door Roller
Code: H915XSAS

UA 7278

GLAZING BEAD
If Powdercoated
kg/m 0.126 P 91
OAD 14.95 x 10.45

UA 7279

GLAZING BEAD
If Anodised
kg/m 0.127 P 92
OAD 14.95 x 10.45

UA 7280

DOOR SIDE RAIL
kg/m 1.656 P 385
OAD 100 x 38.3

UA 7281

DOOR CAP
kg/m 0.138 P 78
OAD 25.5 x 5.5

UA 7282

DOOR WOOLPILE CAP
kg/m 0.151 P 94
OAD 25.5 x 5.5

UA 7283

DOOR SIDE WOOLPILE CAP
kg/m 0.337 P 182
OAD 38.3 x 16.1

UA 7286

BOTTOM DOOR TRACK
kg/m 0.488 P 123
OAD 30.5 x 12

UA 7287

DOOR CENTRE MULLION
kg/m 1.407 P 379
OAD 100 x 36.5

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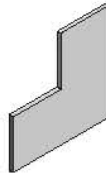
MR = MILL RUN ONLY • NON-STOCKED ITEM • MINIMUM ORDER 200KG

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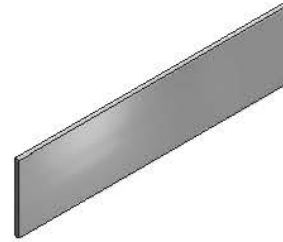
Edition 18 - 2021



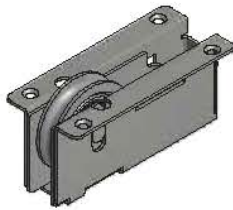
TAPERED FLUSH HINGE
Anodised Silver
Code: 20971
Powdercoated Matt Black
Code: 20968



PARTITION GUSSET
Mitre Corner, Vertical
Code: PARTGUSS22.5
PKT 50



SPLICE PLATE
Butt Joint
Code: PARTSPLICE23
PKT 50



ADJ BOTTOM DOOR ROLLER
Code: H915XSAS



STAKING CORNER
Mitre Corner, Horizontal
Code: PARTSTAK23
PKT 50



HEADSTARTER RESTRAINT BRACKET
Code: PARTSTARTERBRKT
BOX 20



STEEL STUD
STUD 63.5/0.55 x 2400mm
STUD 63.5/0.55 x 2700mm
STUD 63.5/0.55 x 3000mm
STUD 63.5/0.55 x 3300mm
STUD 63.5/0.75 x 3600mm



STEEL TRACK
TRACK 63.5/0.55 x 3000mm



4mm GLAZING BACKING WEDGE
Code: PART252
Black



STEEL STUD
STUD 92/0.55 x 3000mm
STUD 92/0.55 x 3600mm
STUD 92/0.55 x 4200mm



STEEL TRACK
TRACK 92/0.55 x 3000mm



6mm GLAZING BACKING WEDGE
Code: PART253
Black



WOOLPILE
Code: PART4.8-450
Black / Grey



WOOLPILE
Code: PART6.9-450
Black / Grey



WOOLPILE
Code: PART6.9-700
Black / Grey



WOOLPILE
Code: PART6.9-900
Black / Grey



BUTTERFLY WEDGE
Code: PART466
Black



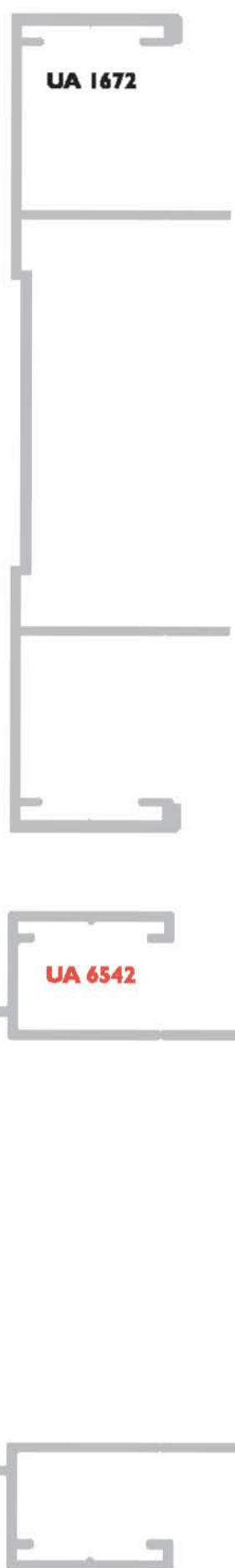
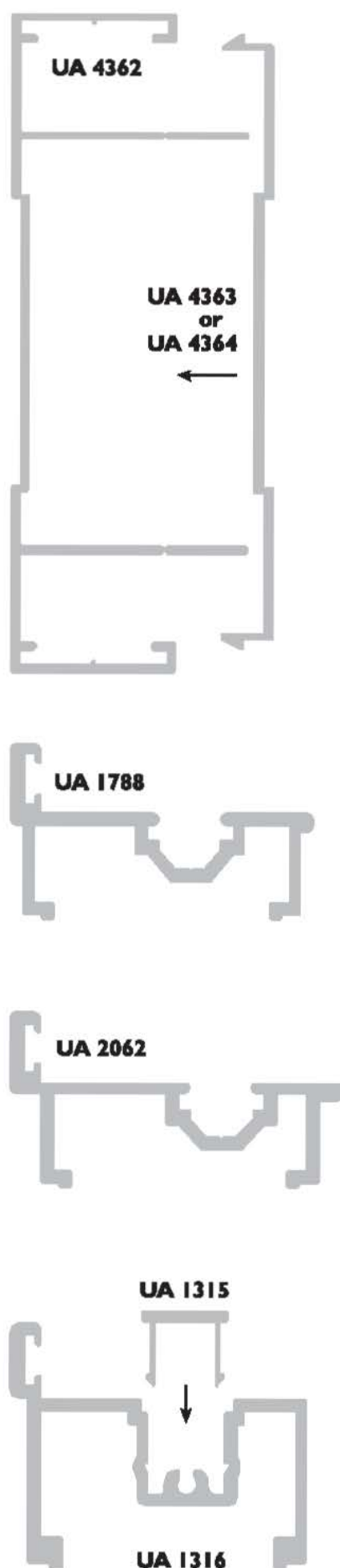
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OTHERWISE INDICATED.
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SPECIFICATION DRAWINGS
O.A.D. = OVERALL DIMENSIONS
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UA 1315
DOOR JAMB CAP
kg/m 0.100 P 73
OAD 13.8 x 11.8

UA 1316
DOOR JAMB - 40mm Door
kg/m 0.904 P 317
OAD 47 x 39

UA 1672
26mm HEAD STARTER
For 63.5mm Steel Stud
kg/m 1.131 P 538
OAD 129 x 34.6

UA 1788
DOOR JAMB - 40mm Door
kg/m 0.671 P 234
OAD 48 x 27.8

UA 2062
DOOR JAMB - 45mm Door
kg/m 0.690 P 243
OAD 53 x 27

UA 4362
13mm GIB HEAD STARTER
For 63.5mm Steel Stud
kg/m 0.863 P 492
OAD 104 x 37.3

UA 4363
13mm STARTER CAP
If Powdercoated
kg/m 0.389 P 225
OAD 96.8 x 8.14

UA 4364
13mm STARTER CAP
If Anodised
kg/m 0.391 P 227
OAD 97.6 x 8.14

UA 6542 (MR)
13mm GIB HEAD STARTER
For 63.5mm Steel Stud
Negative Detail
kg/m 0.973 P 553
OAD 104 x 49.3

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Edition 1B - 2021

UA 1034

GLAZING BAR BASE
kg/m 0.533 P 210
OAD 44 x 26

UA 1035

GLAZING BEAD
If Powdercoated
kg/m 0.175 P 120
OAD 21 x 14.5

UA 1046

DOOR PILLAR POST
kg/m 1.072 P 288
OAD 65 x 44

UA 1047

PILLAR POST JAMB - 40mm Door
kg/m 0.354 P 138
OAD 47 x 14

UA 1313

DOUBLE GLAZING CAP
kg/m 0.253 P 136
OAD 48.8 x 9.2

UA 1314

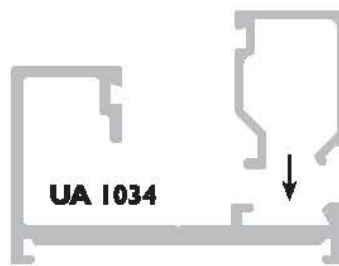
DOUBLE GLAZING BASE
kg/m 1.092 P 435
OAD 106 x 25.5 Infill 466

UA 2400

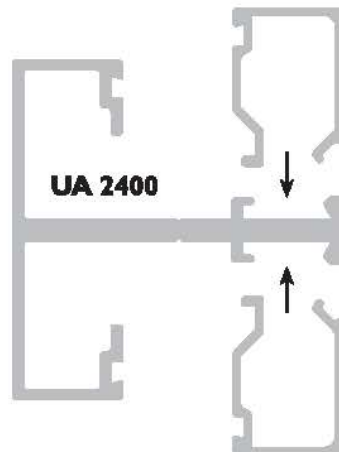
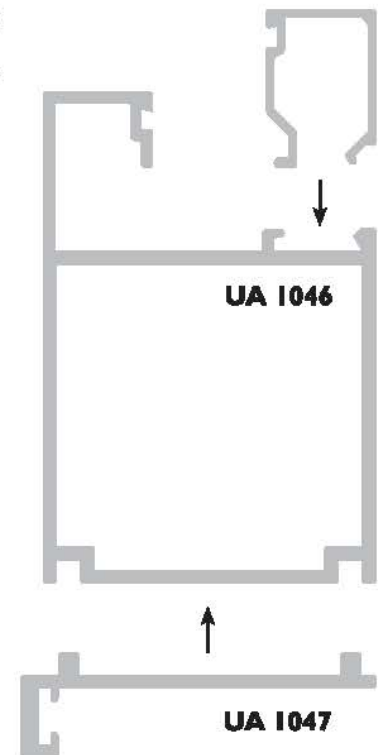
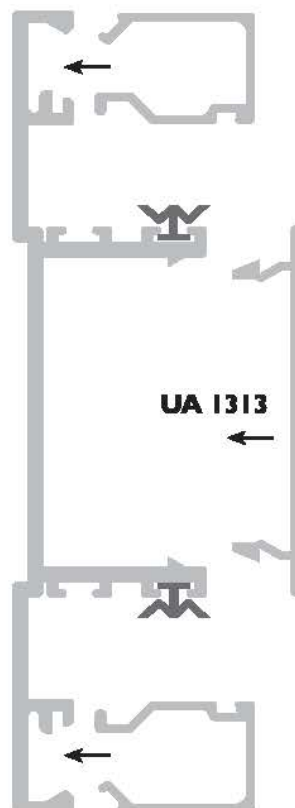
GLAZING BAR MULLION
kg/m 0.786 P 295
OAD 45 x 44

UA 3209

GLAZING BEAD
If Anodised
kg/m 0.178 P 121
OAD 21 x 14.5



**UA 1035
or
UA 3209**

**UA 1314**

BUTTERFLY WEDGE
Code: PART466
Black



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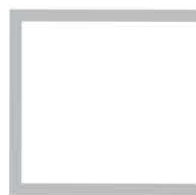
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INFILLS SOLD SEPARATELY

Edition 18 - 2021

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UA 1573**UA 5949****UA 1573**

WALL MOUNT
kg/m 0.273 P 148
OAD 25 x 25

UA 5949

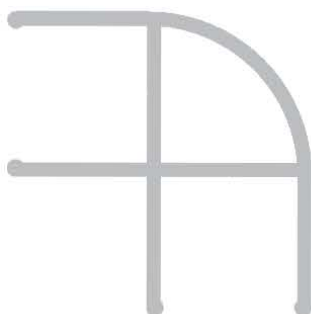
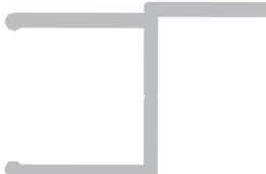
18mm CAPPING
kg/m 0.235 P 119
OAD 21.6 x 20

UA 6453**UA 7025****UA 6453**

18mm JOINTER
kg/m 0.389 P 194
OAD 38.5 x 21.6

UA 6454

18mm DOOR STOP CAP
kg/m 0.304 P 153
OAD 35 x 23.1

UA 6455**UA 6454****UA 6455**

18mm CORNER
kg/m 0.591 P 225
OAD 40.1 x 40.1

UA 7025

11mm INSERT
kg/m 0.222 P 107
OAD 21.6 x 13.6



ALUMINIUM FLAT BUTT HINGE
75mm SATIN FINISH
Code: HA35



UC 1914 PARTITION FOOT
PLATFORM HEIGHT: 150mm



SURFACE MOUNT INDICATOR BOLT SET Code: 11461

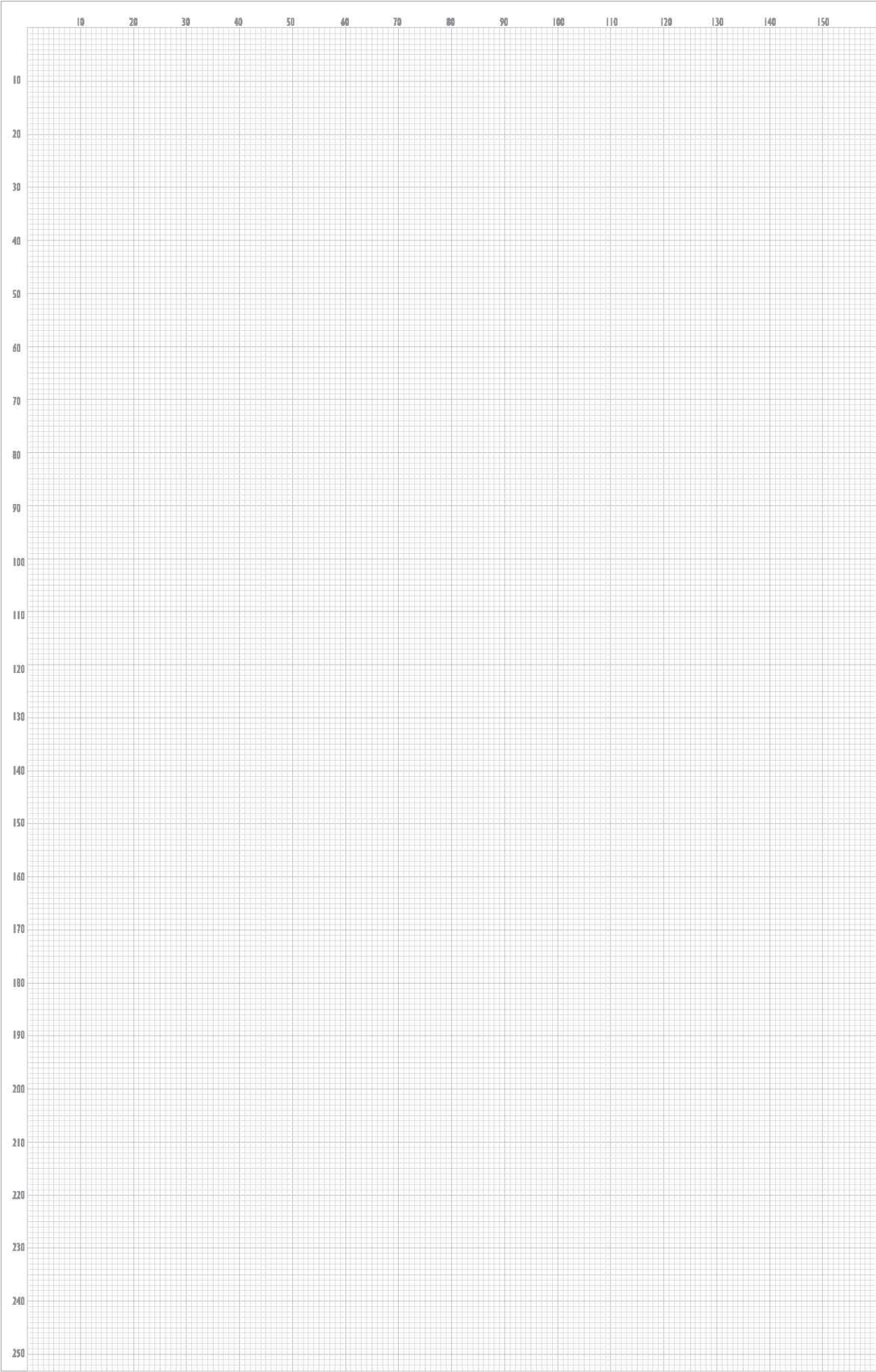
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DIE No	DESCRIPTION
UA 1037	EASY DUCT LID
UA 1038	EASY DUCT BASE
UA 1039	EASY DUCT BASE
UA 1040	CAVITY DUCT BASE
UA 1041	DUCT DIVIDER
UA 1042	DUCT LID
UA 1043	DUCT BASE CHANNEL
UA 1593	DUCT LID
UA 1594	DUCT CHANNEL
UA 1595	DUCT CHANNEL
UA 1596	DUCT CHANNEL
UA 1597	DUCT CHANNEL
UA 1598	DUCT CHANNEL
UA 1600	DUCT CHANNEL
UA 1854	DUCT LID
UA 1867	DUCT LID
UA 1925	DUCT CHANNEL
UA 2046	DUCT CHANNEL
UA 2047	DUCT LID
UA 4476	DUCT CHANNEL
UA 5045	DUCT CHANNEL
UA 5336	DUCT LID
UA 5337	DUCT LID
UA 5346	DUCT LID
UA 5917	DOUBLE DUCT CHANNEL
UA 5918	DOUBLE DUCT LID
UA 5928	DUCT LID
UA 6214	DUCT CHANNEL
UA 6382	DUCT CHANNEL
UA 7023	DUCT CHANNEL
UA 7024	DUCT LID
UA 7702	DUCT CHANNEL
UA 7446	DUCT CHANNEL
UA 7447	DUCT LID
UA 7778	DOUBLE DUCT CHANNEL

**NOTE: RED INDICATES
= MILL RUN ONLY =
NON-STOCKED ITEM**

**MINIMUM ORDER
QUANTITY 200KG**

**CONTACT YOUR LOCAL
BRANCH TO ENQUIRE**

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Edition 18 - 2021

UA 1037

EASY DUCT LID (2C, 3C)

kg/m 0.868 P 329

OAD 136 x 10

UA 1038

EASY DUCT BASE (2C)

kg/m 1.449 P 559

OAD 136 x 41

UA 1039

EASY DUCT BASE (3C)

kg/m 1.668 P 645

OAD 136 x 41

UA 1040

CAVITY DUCT BASE

kg/m 0.949 P 432

OAD 84 x 44

UA 1041

DUCT DIVIDER

kg/m 0.400 P 196

OAD 46 x 22

UA 1042

DUCT LID

kg/m 0.412 P 207

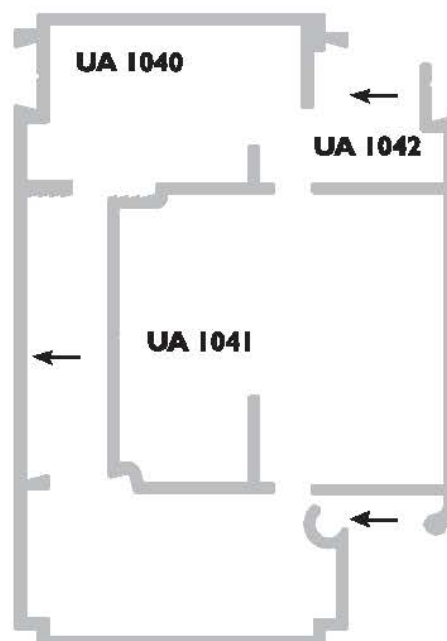
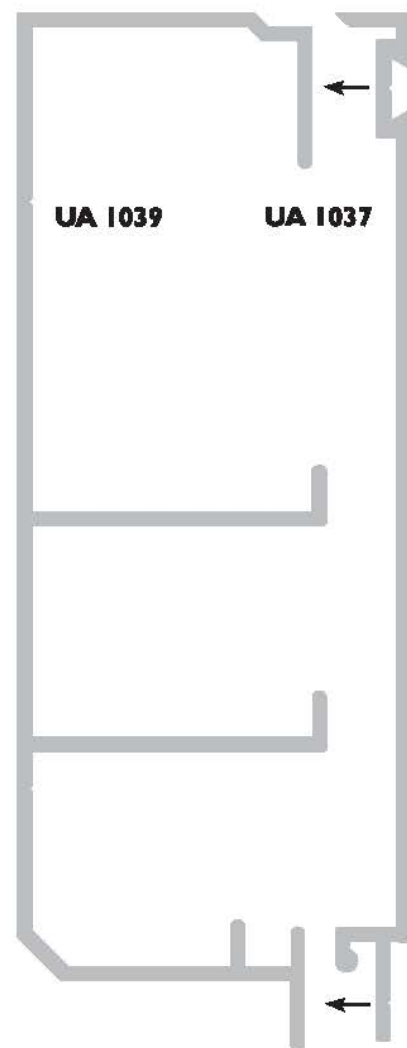
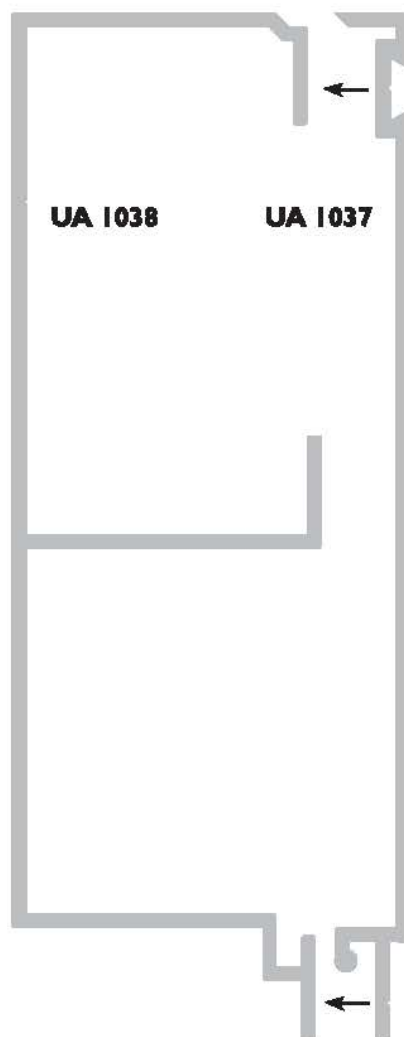
OAD 62.5 x 19

UA 1043

DUCT BASE CHANNEL

kg/m 0.307 P 158

OAD 47 x 17



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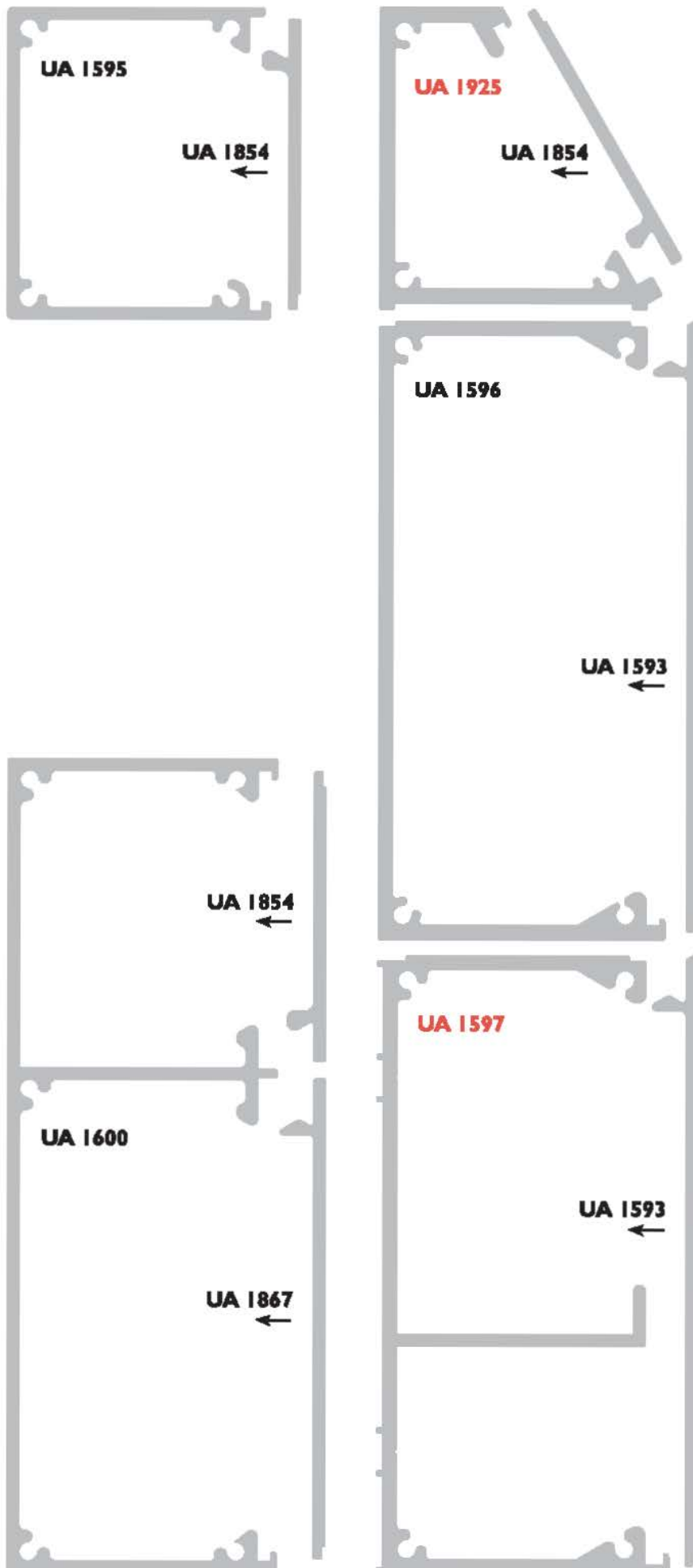
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**UA 1593**

DUCT LID (KSD18, 18/2)
kg/m .564 P 214
OAD 100 x 7.5

UA 1595

DUCT CHANNEL (KMP09)
kg/m 0.828 P 307
OAD 51 x 43

UA 1596

DUCT CHANNEL (KSD18)
kg/m 1.367 P 418
OAD 101 x 47

UA 1597 (MR)

DUCT CHANNEL (KSD18/2)
kg/m 1.699 P 522
OAD 101 x 48

UA 1600

DUCT CHANNEL (KSD27)
kg/m 1.649 P 593
OAD 133 x 44

UA 1854

DUCT LID SmI (KMP09, KSD17, KSD27)
kg/m 0.282 P 107
OAD 47.5 x 6.35

UA 1867

DUCT LID Lge (KSD27)
kg/m 0.450 P 171
OAD 78.5 x 7.5

UA 1925 (MR)

DUCT CHANNEL (KSD17)
kg/m 0.899 P 265
OAD 49.5 x 46.2

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UA 5346 (MR)

DUCT LID

kg/m 0.442 P 169

OAD 77.9 x 7.5

UA 5917 (MR)

DOUBLE DUCT CHANNEL

kg/m 1.963 P 710

OAD 151 x 59

UA 5918 (MR)

DOUBLE DUCT LID

kg/m 0.402 P 154

OAD 70.5 x 7.5

UA 6214 (MR)

DOUBLE DUCT CHANNEL

kg/m 2.632 P 910

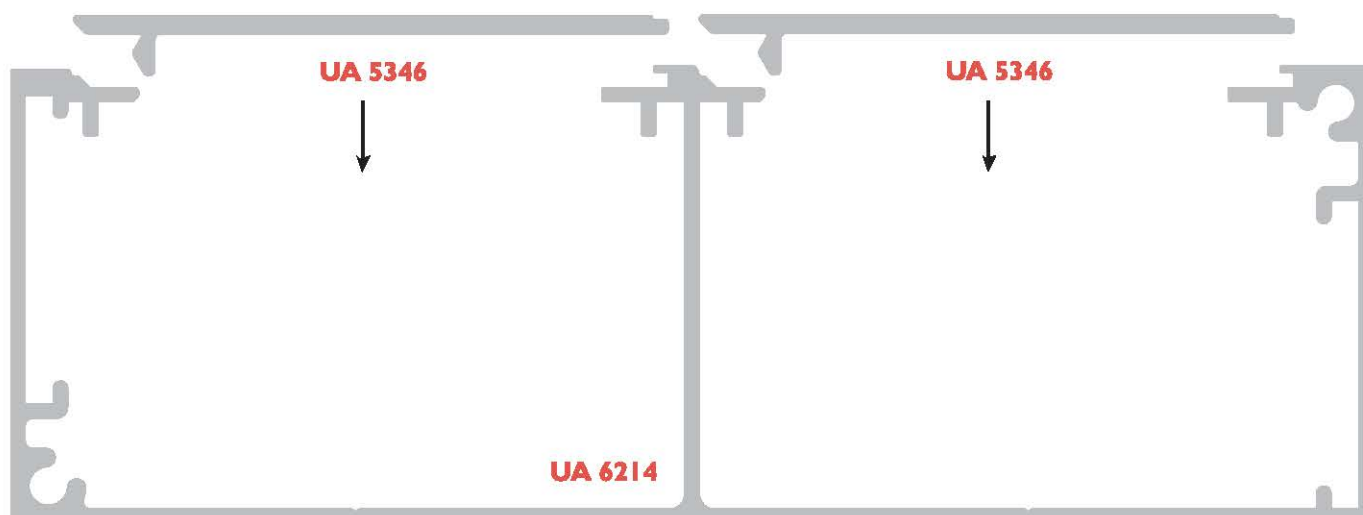
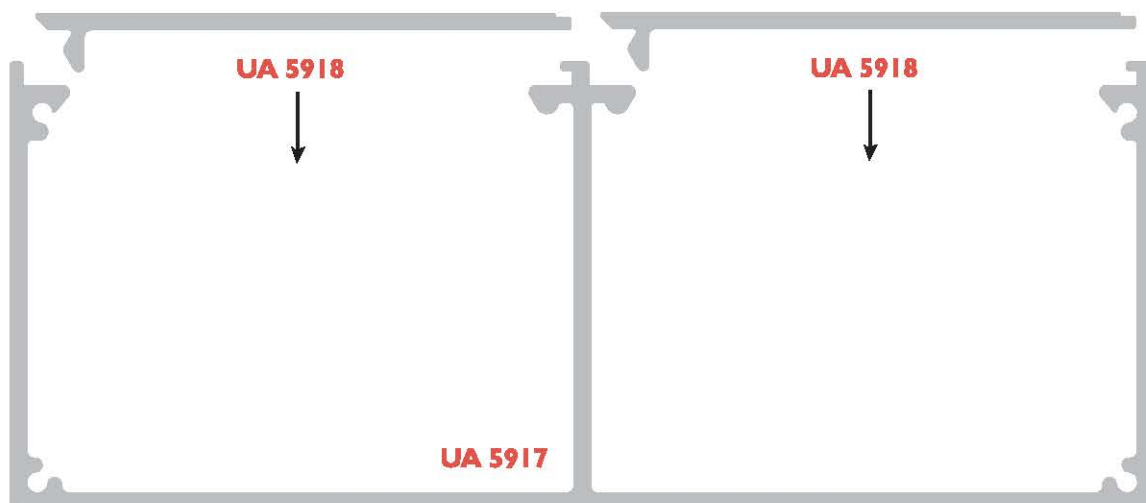
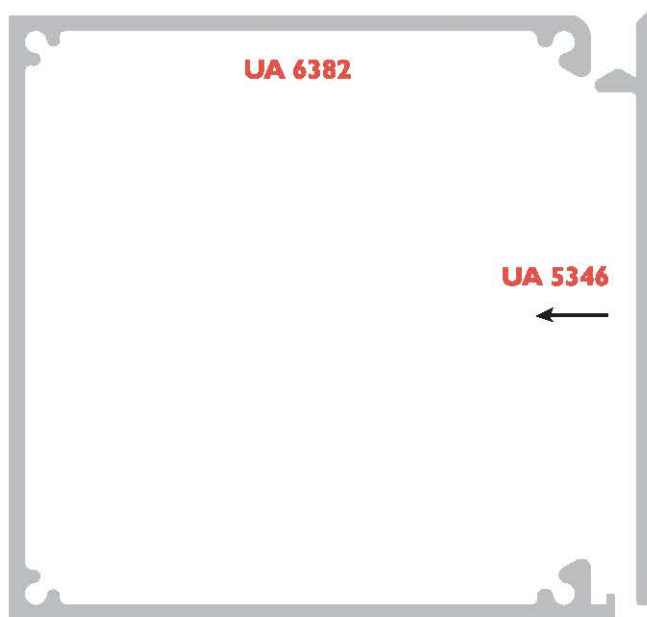
OAD 180 x 60

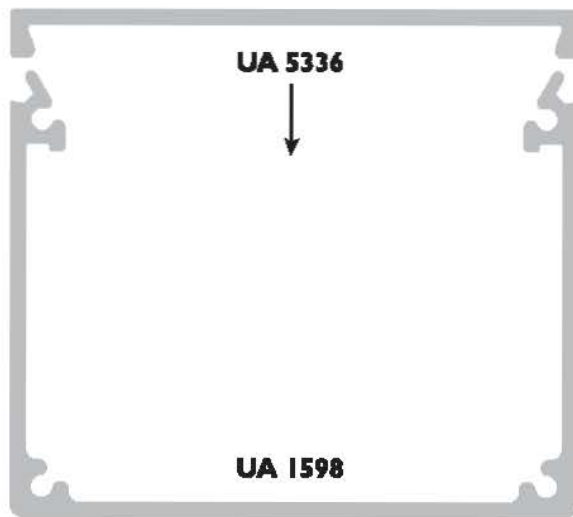
UA 6382 (MR)

DUCT CHANNEL

kg/m 1.413 P 511

OAD 80 x 80





UA 1594

DUCT CHANNEL (KMP13)
kg/m 1.856 P 512
OAD 91.5 x 55

UA 1598

DUCT CHANNEL (KMP19)
kg/m 1.397 P 417
OAD 75 x 59

UA 5045 (MR)

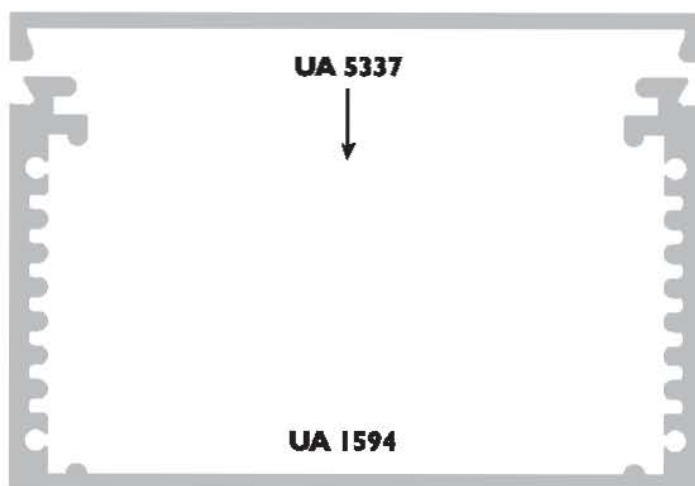
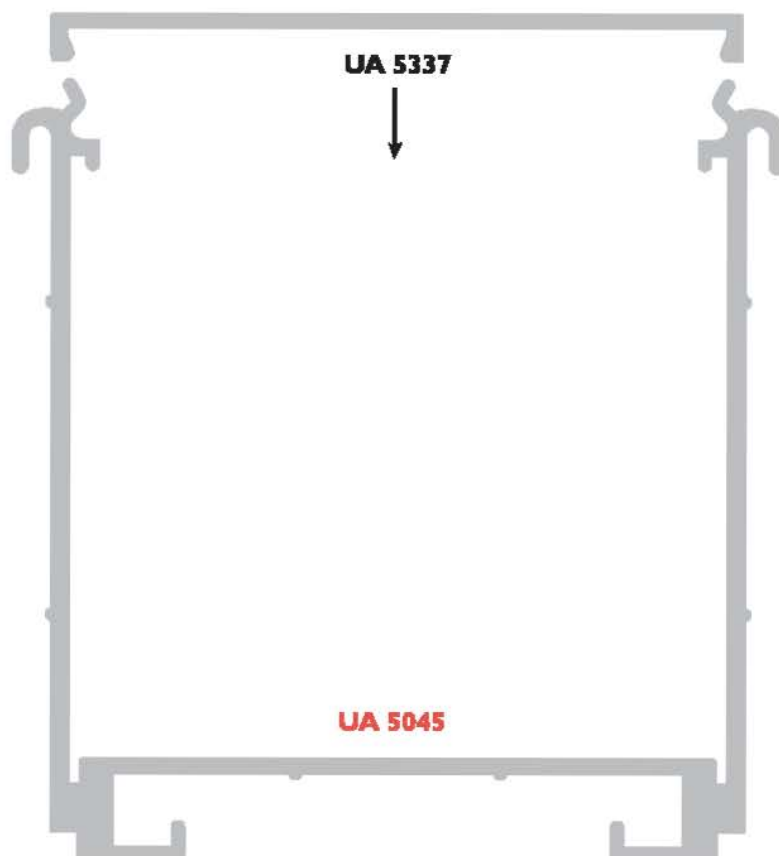
DUCT CHANNEL (KPL04)
kg/m 2.303 P 722
OAD 103 x 102.1

UA 5336

DUCT LID (KMP19)
kg/m 0.384 P 173
OAD 75 x 7.1

UA 5337

DUCT LID (KMP13, KPL04)
kg/m 0.462 P 205
OAD 91.5 x 6.75



DIAGRAMS ACTUAL SIZE UNLESS
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Edition 18 - 2021

UA 2046

DUCT CHANNEL (KMP26)
 kg/m 1.802 P 586
 OAD 120 x 62

UA 2047

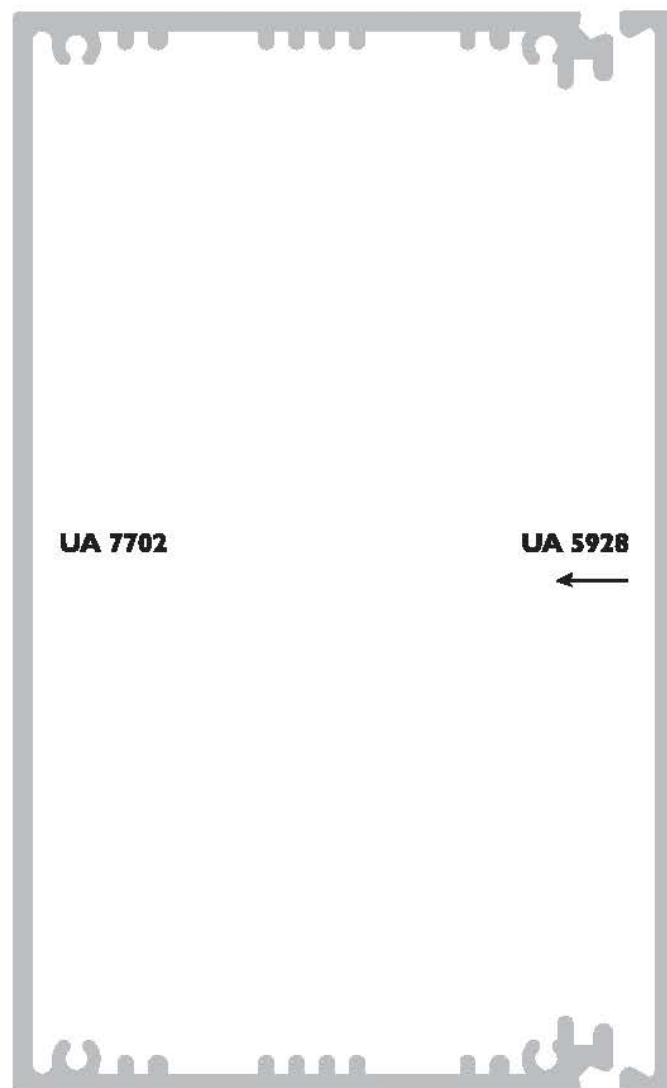
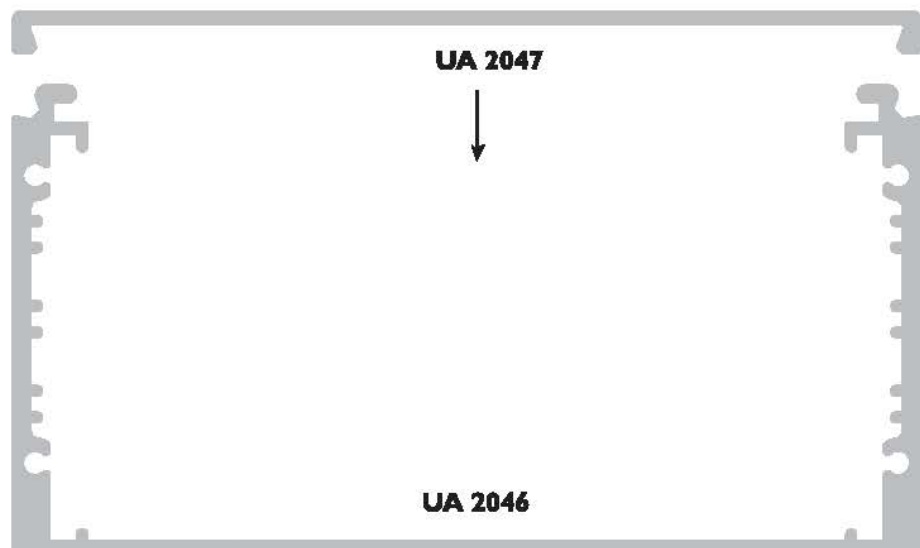
DUCT LID (KMP26)
 kg/m 0.639 P 259
 OAD 120 x 5.6

UA 5928

DUCT LID (KMP20)
 kg/m 1.046 P 310
 OAD 143 x 7.13

UA 7702

DUCT CHANNEL (KMP20)
 kg/m 2.506 P 745
 OAD 143 x 79.3



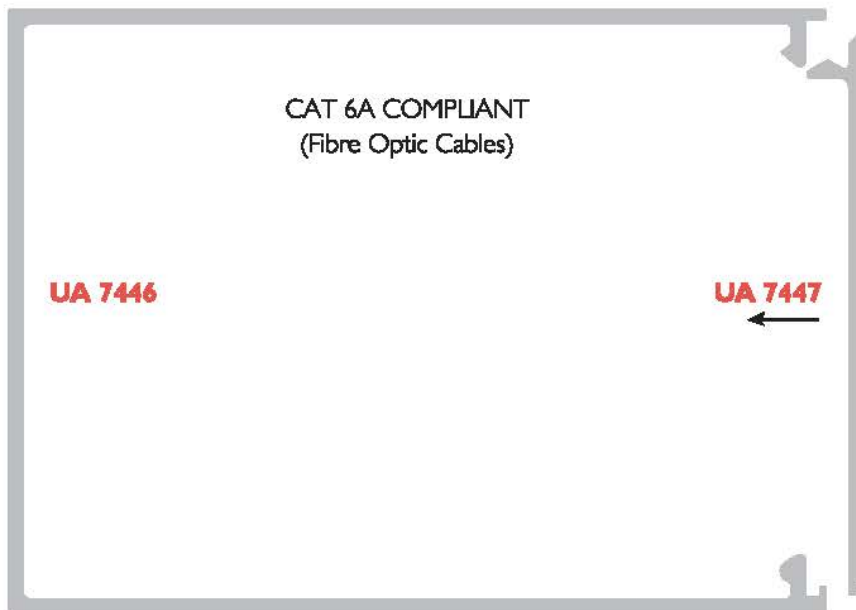
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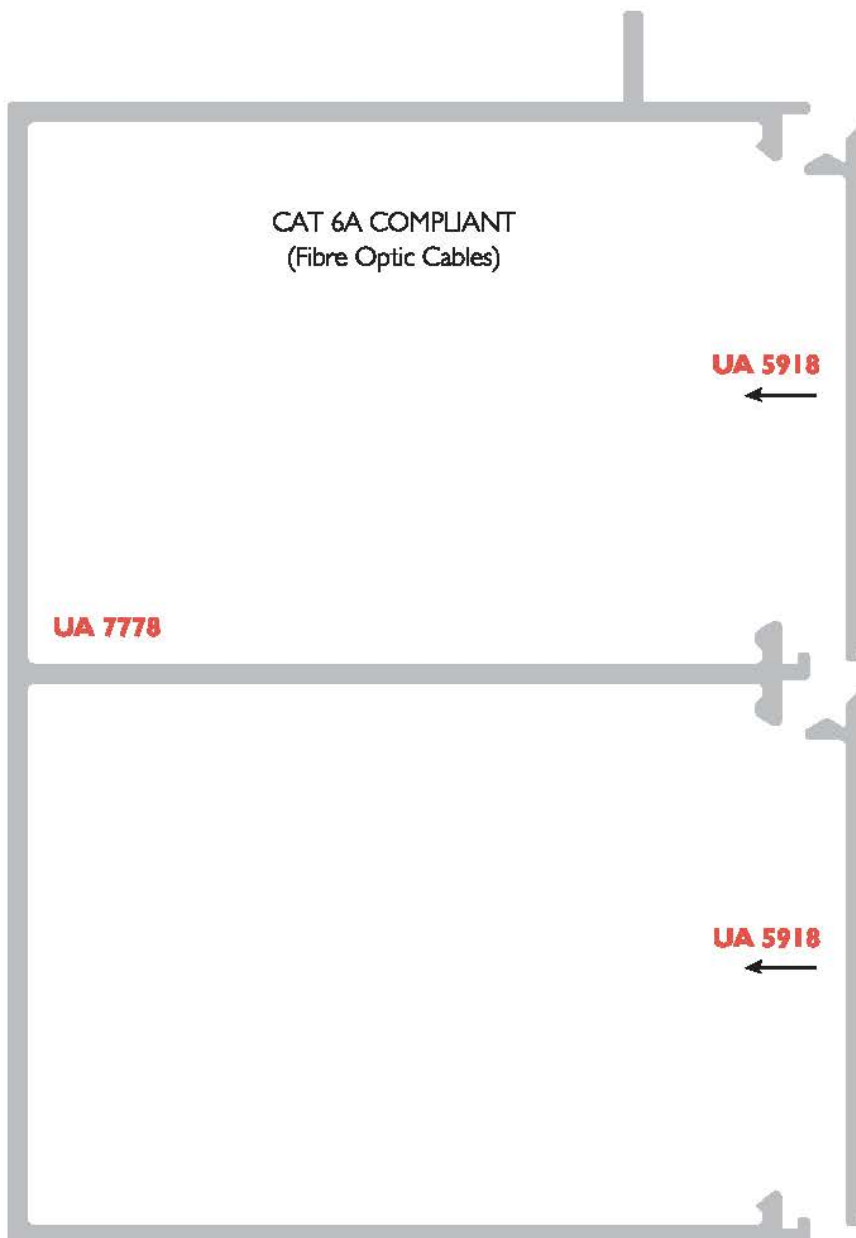


UA 5918 (MR)
DOUBLE DUCT LID
kg/m 0.402 P 154
OAD 70.5 x 7.5

UA 7446 (MR)
DUCT CHANNEL
kg/m 1.655 P 613
OAD 108.1 x 80

UA 7447 (MR)
DUCT LID
kg/m 0.421 P 162
OAD 74.45 x 7.5

UA 7778 (MR)
DOUBLE DUCT CHANNEL
kg/m 3.335 P 993
OAD 163 x 105.9



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Edition 18 - 2021

UA 4476 (MR)

DUCT CHANNEL (KPL05)
kg/m 3.169 P 855
OAD 153.67 x 108.96

UA 5928

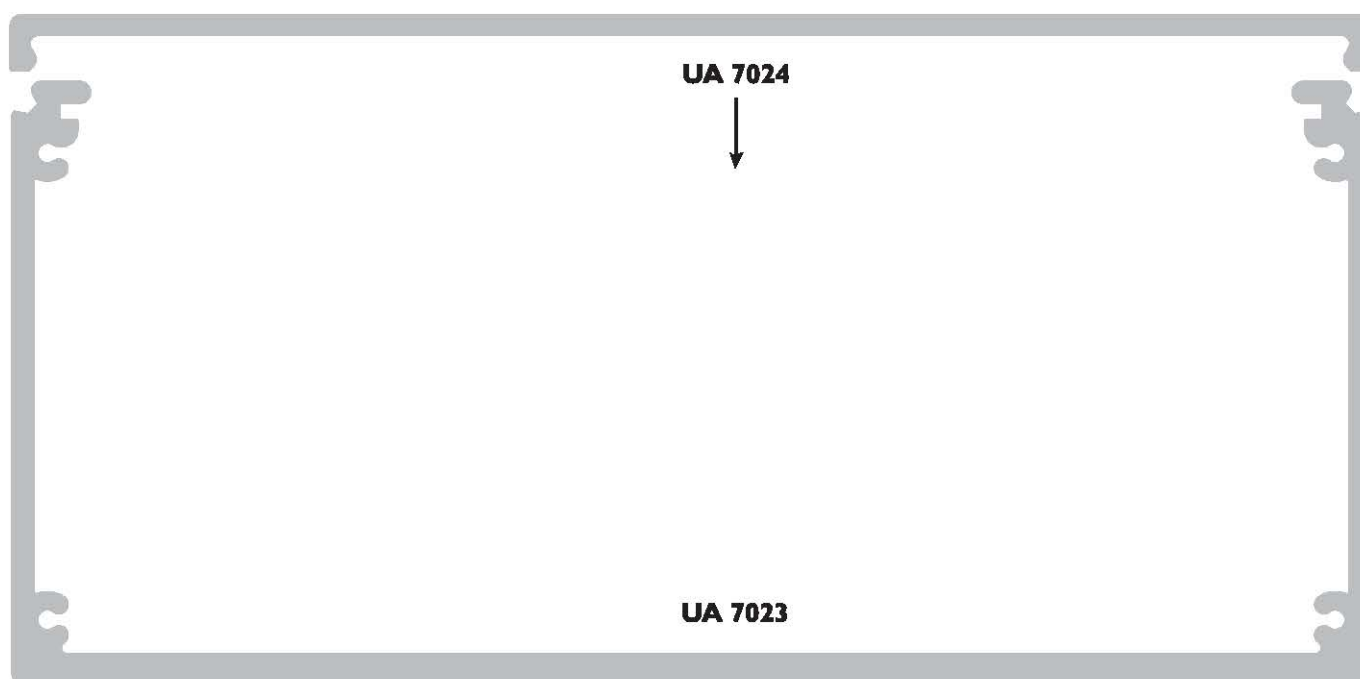
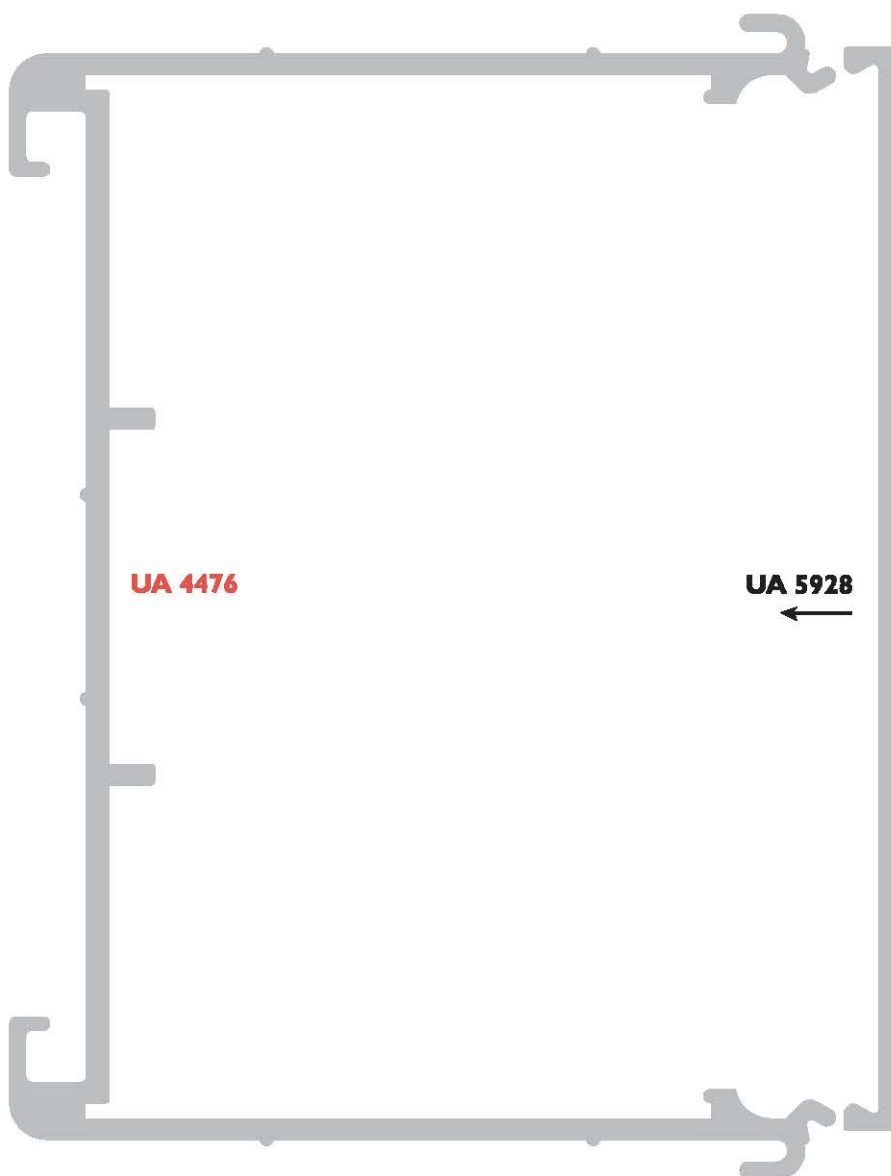
DUCT LID (KPL05)
kg/m 1.046 P 310
OAD 143 x 7.13

UA 7023

DUCT CHANNEL (KMP25)
kg/m 3.329 P 734
OAD 180 x 80

UA 7024

DUCT LID (KMP25)
kg/m 1.283 P 382
OAD 180 x 7.2



DIE No	DESCRIPTION	DIE No	DESCRIPTION
75mm SHOP FRONT		GENERAL SHOP FRONT	
UA 1285	MULLION	UA 1293	FLASHING
UA 1286	MULLION	UA 1294	CORNER POST
UA 1287	GLAZING BEAD	UA 1298	FLASHING
UA 1288	MULLION	UA 1309	DOOR HANDLE
UA 1289	SILL TRANSOM		
UA 1290	MULLION		
UA 1291	GLAZING INFILL		
UA 1292	FLUSH INFILL		
UA 1333	POCKET FILLER		

100mm SHOP FRONT

UA 1291	GLAZING INFILL
UA 1292	FLUSH INFILL
UA 1295	MULLION
UA 1296	GLAZING BEAD
UA 1297	SILL TRANSOM
UA 1299	MULLION
UA 1333	POCKET FILLER
UA 3088	PLAIN MULLION
UA 3920	GLAZING INFILL
UA 3921	GLAZING BEAD
UA 3923	MULLION
UA 4837	POCKET FILLER
UA 4864	POCKET FILLER

COMMERCIAL DOOR

UA 1070	TOP RAIL
UA 1300	HINGE STILE
UA 1301	WOOLPILE STILE
UA 1302	PLAIN STILE
UA 1303	GLAZING BEAD
UA 1304	VISION RAIL CAP
UA 1305	TOP TRACK
UA 1306	BOTTOM RAIL
UA 1307	BOTTOM TRACK
UA 1308	VISION RAIL
UA 1310	WOOLPILE DOOR STOP
UA 2369	STILE GUIDE
UA 2370	STILE
UA 3922	GLAZING BEAD
UA 4175	STILE
UA 4576	STILE
UA 4577	HINGE STILE
UA 4907	HINGE STILE
UA 4908	LOCK STILE
UA 4909	TOP RAIL
UA 4910	MID RAIL
UA 4911	BOTTOM RAIL

**NOTE: RED INDICATES
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**MINIMUM ORDER
QUANTITY 200KG**

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BRANCH TO ENQUIRE**

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Edition 18 - 2021

UA 1285

MULLION

kg/m 1.380 P 499

OAD 76.2 x 44.5

UA 1286

MULLION

kg/m 1.779 P 313

OAD 76.2 x 44.5

UA 1287

GLAZING BEAD

kg/m 0.239 P 147

OAD 30.8 x 18.5

UA 1288

MULLION

kg/m 1.483 P 242

OAD 76.2 x 44.5

UA 1289

SILL TRANSOM

kg/m 1.136 P 414

OAD 76.2 x 44.5

UA 1290

MULLION

kg/m 1.074 P 388

OAD 76.2 x 44.5

UA 1291

GLAZING INFILL

kg/m 0.719 P 268

OAD 60.2 x 20.5

UA 1292

FLUSH INFILL

kg/m 0.454 P 169

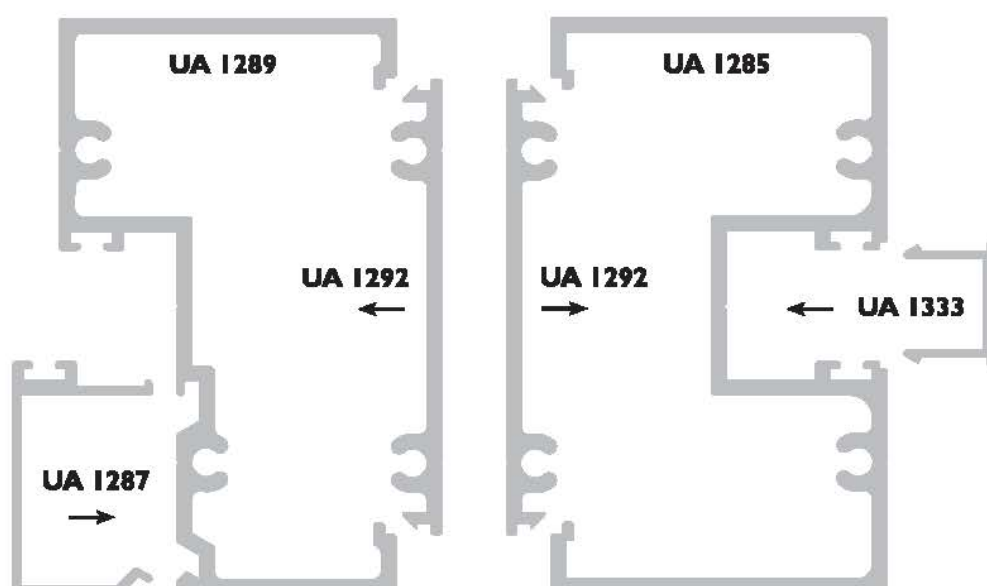
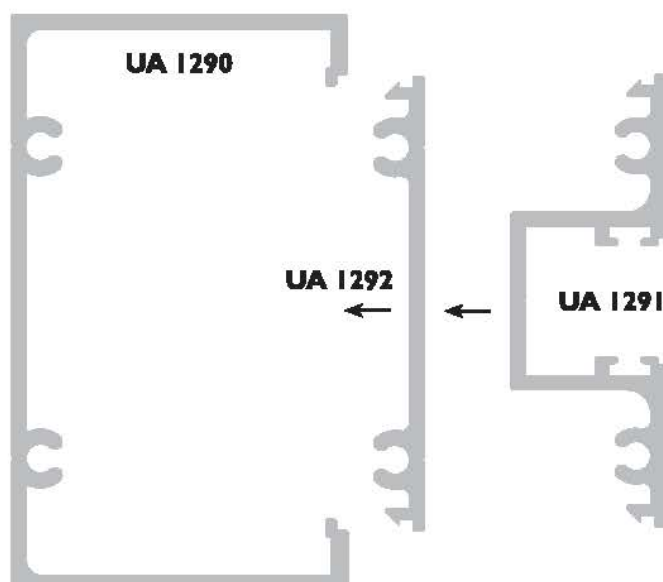
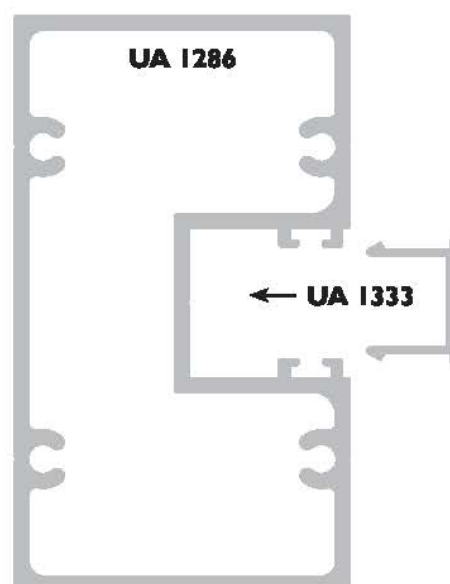
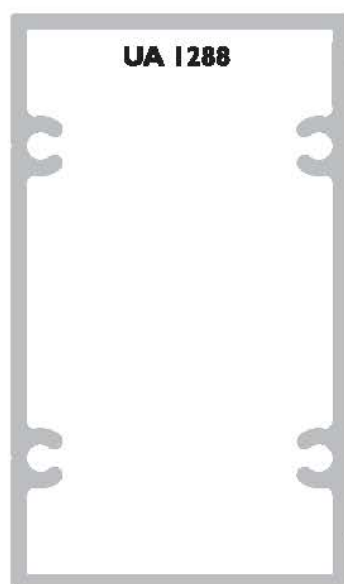
OAD 60.2 x 6.7

UA 1333

POCKET FILLER

kg/m 0.121 P 78

OAD 16.5 x 12



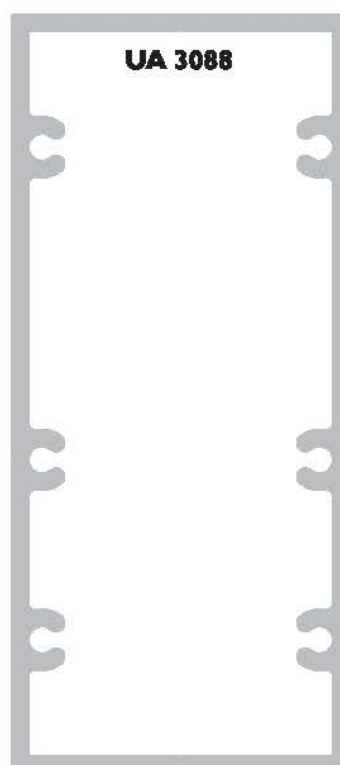
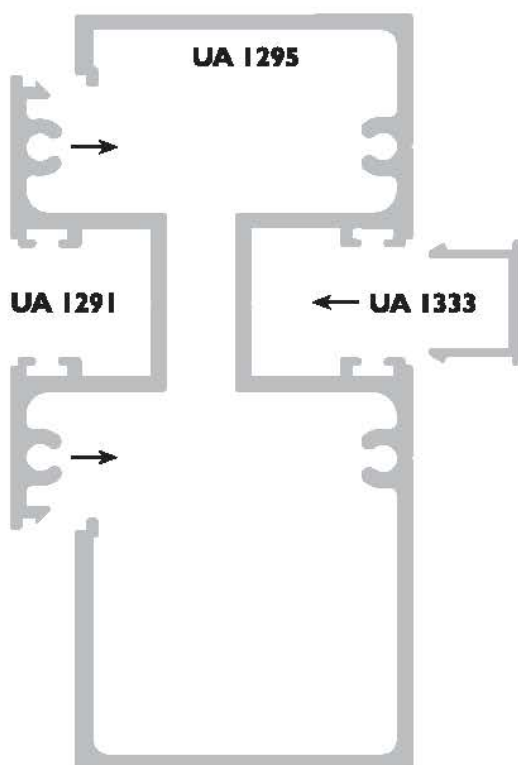
DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED.
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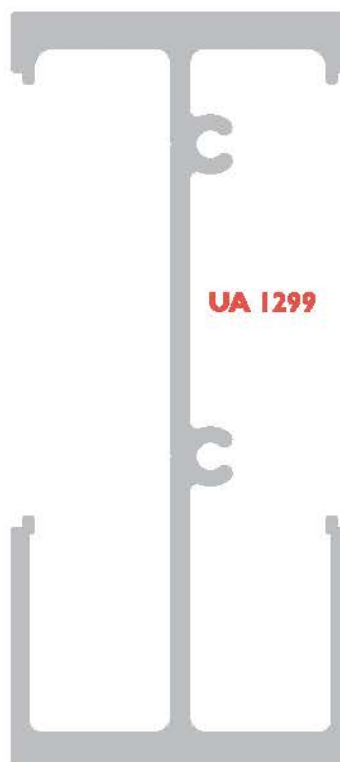
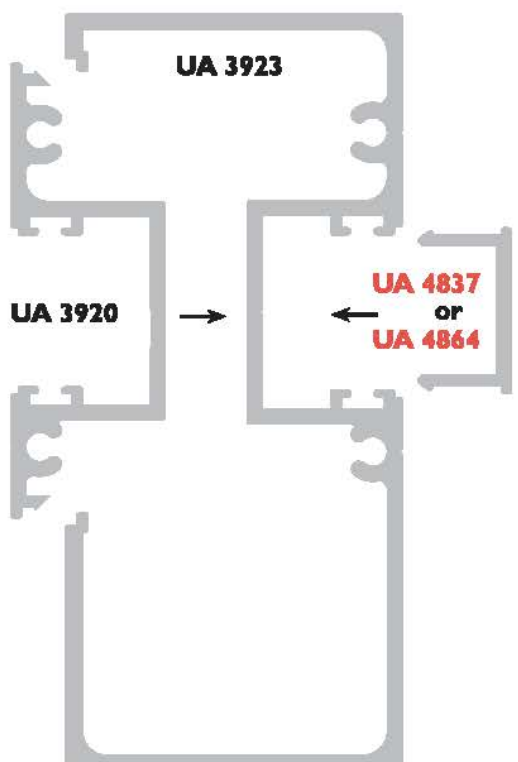
UA 1291
GLAZING INFILL
kg/m 0.719 P 268
OAD 60.2 x 20.5

UA 1295
MULLION
kg/m 1.653 P 592
OAD 100 x 44.5

UA 1299 (MR)
MULLION
kg/m 2.335 P 536
OAD 100 x 44.5

UA 1333
POCKET FILLER
kg/m 0.121 P 78
OAD 16.5 x 12

UA 3088
PLAIN MULLION
kg/m 1.848 P 290
OAD 100 x 44.5



UA 3920
GLAZING INFILL
kg/m 0.710 P 261
OAD 60.2 x 20.5

UA 3923
MULLION
kg/m 1.645 P 586
OAD 100 x 44.5

UA 4837 (MR)
POCKET FILLER
If Anodised
kg/m 0.141 P 87
OAD 21.6 x 11.7

UA 4864 (MR)
POCKET FILLER
If Powdercoated
kg/m 0.142 P 88
OAD 21.6 x 12

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Edition 18 - 2021

UA 1292

FLUSH INFILL

kg/m 0.454 P 169

OAD 60.2 x 6.7

UA 1294 (MR)

CORNER POST

kg/m 1.720 P 602

OAD 76 x 76

UA 1296

GLAZING BEAD

kg/m 0.357 P 195

OAD 54.55 x 18.5

UA 1297

SILL TRANSOM

kg/m 1.650 P 515

OAD 100 x 44.5

UA 1309

DOOR HANDLE

kg/m 1.817 P 331

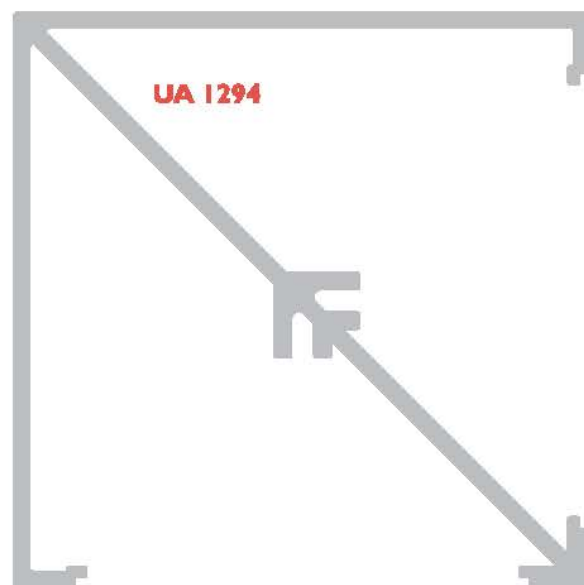
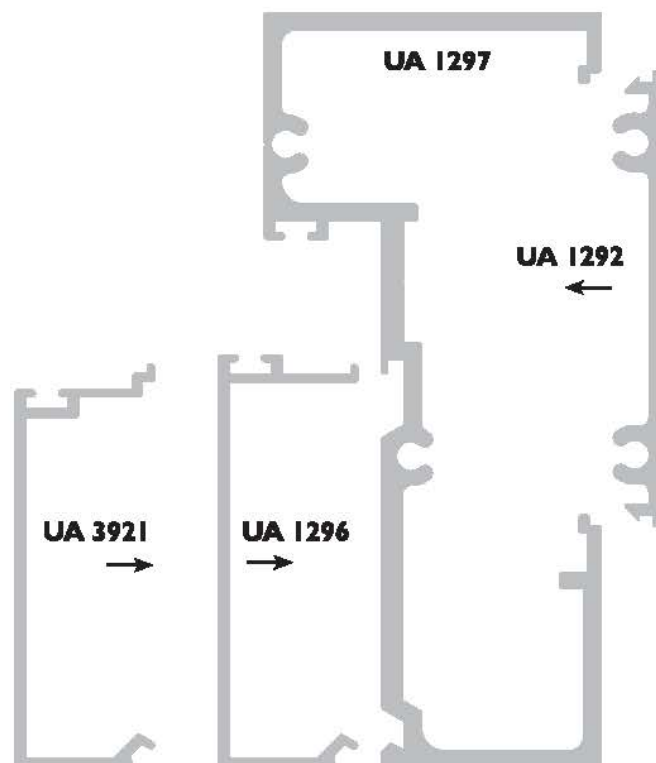
OAD 89.6 x 49.8

UA 3921

GLAZING BEAD

kg/m 0.341 P 189

OAD 53.25 x 18.5



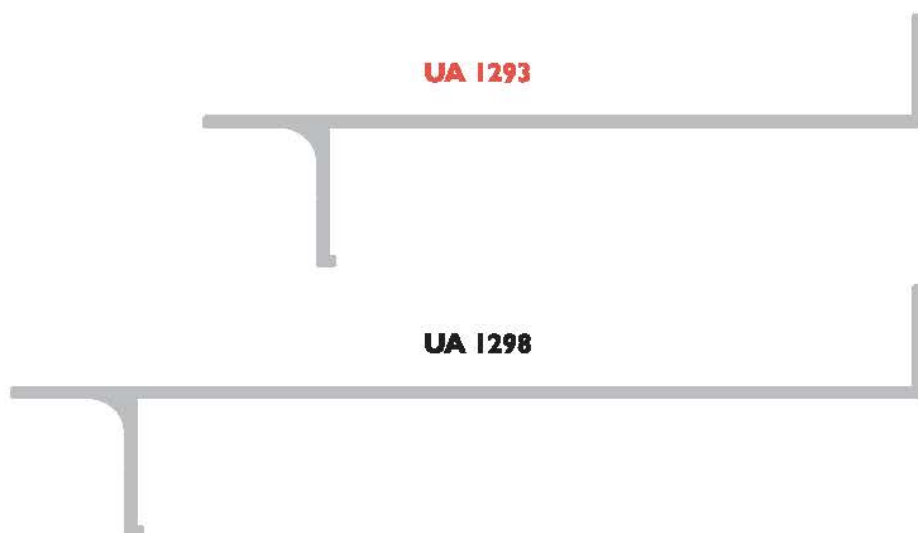
DIAGRAMS ACTUAL SIZE UNLESS
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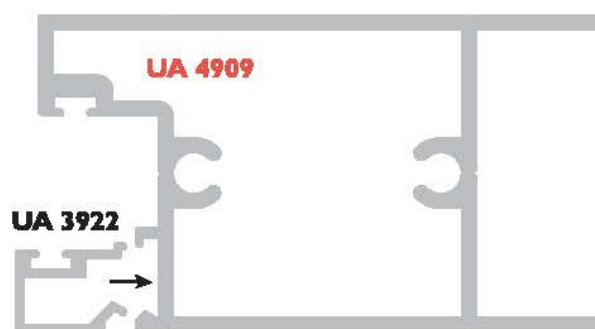


UA 1293 (MR)
FLASHING
kg/m 0.567 P 257
OAD 95 x 33.5

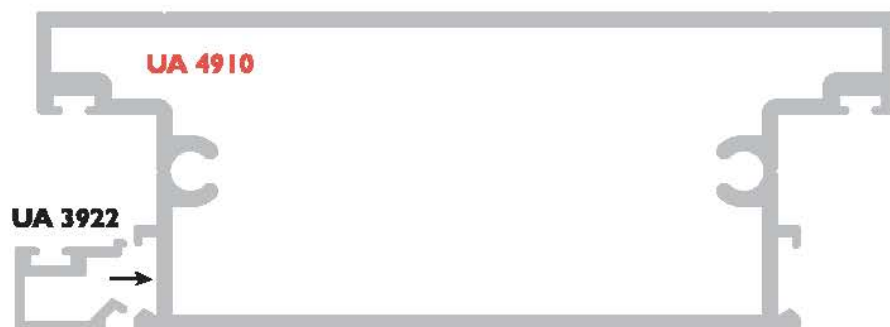
UA 1298
FLASHING
kg/m 0.676 P 308
OAD 120 x 33.5

UA 3922
GLAZING BEAD
kg/m 0.157 P 93
OAD 14.8 x 12

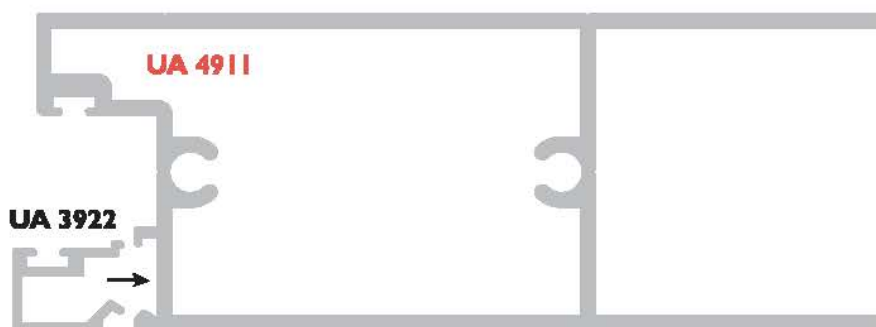
UA 4909 (MR)
TOP RAIL
kg/m 1.436 P 288
OAD 74.1 x 42



UA 4910 (MR)
MID RAIL
kg/m 1.925 P 360
OAD 114 x 42



UA 4911 (MR)
BOTTOM RAIL
kg/m 1.830 P 408
OAD 112 x 42
Takes Door Roller
TRUKEG940710



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Edition 18 - 2021

UA 1070

TOP RAIL

kg/m 1.420 P 254

OAD 60 x 42

UA 1300

HINGE STILE

kg/m 1.132 P 219

OAD 51 x 44

UA 1301

WOOLPILE STILE

kg/m 1.161 P 222

OAD 51 x 44

UA 1302

PLAIN STILE

kg/m 1.112 P 217

OAD 51 x 44

UA 1303

GLAZING BEAD

kg/m 0.167 P 98

OAD 14.8 x 13.6

UA 1304

VISION RAIL CAP

kg/m 0.447 P 158

OAD 42 x 15

UA 1305

TOPTRACK

kg/m 1.002 P 339

OAD 63 x 43

UA 1306

BOTTOM RAIL

kg/m 1.919 P 383

OAD 100 x 42

Takes Door Roller

TRUKEG940710

UA 1308

VISION RAIL

kg/m 1.849 P 315

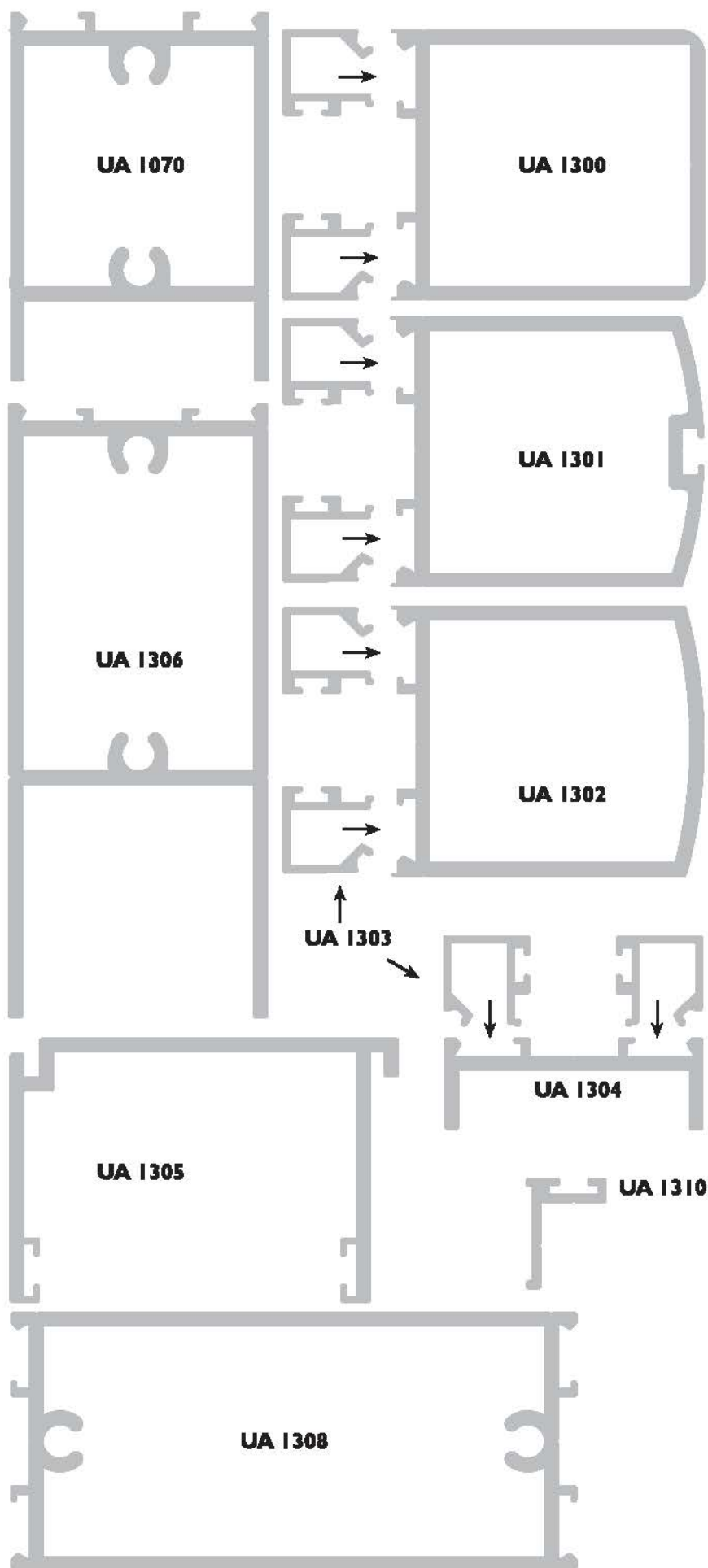
OAD 92 x 42

UA 1310

WOOLPILE DOOR STOP

kg/m 0.145 P 75

OAD 18 x 13



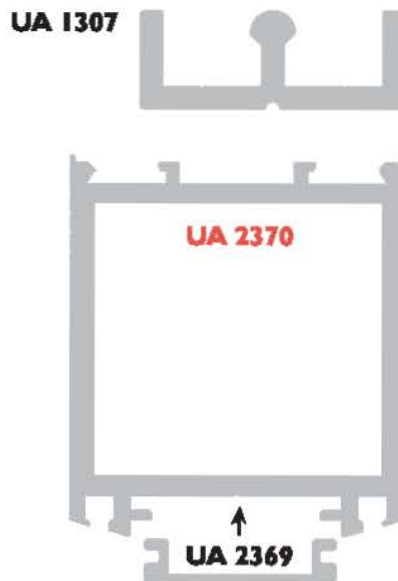
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UA 1303
GLAZING BEAD
kg/m 0.167 P 98
OAD 14.8 x 14

UA 1307
BOTTOMTRACK
kg/m 0.536 P 139
OAD 35 x 13

UA 2369
STILE GUIDE
kg/m 0.141 P 79
OAD 26.5 x 5.5

UA 2370 (MR)
STILE
kg/m 1.302 P 261
OAD 51 x 44



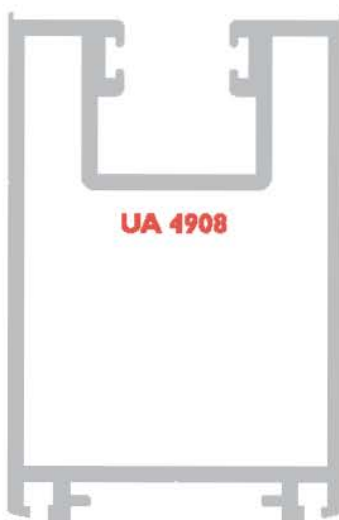
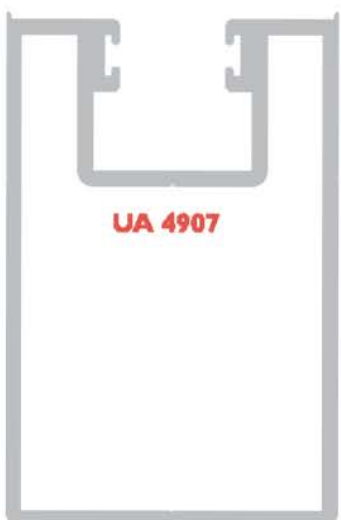
UA 4175
STILE
kg/m 1.397 P 275
OAD 58 x 44

UA 4576 (MR)
STILE
kg/m 1.896 P 349
OAD 95 x 44

UA 4577 (MR)
HINGE STILE
kg/m 1.678 P 300
OAD 95 x 44

UA 4907 (MR)
HINGE STILE
kg/m 1.494 P 294
OAD 68 x 44

UA 4908 (MR)
LOCK STILE
kg/m 1.578 P 342
OAD 68 x 44



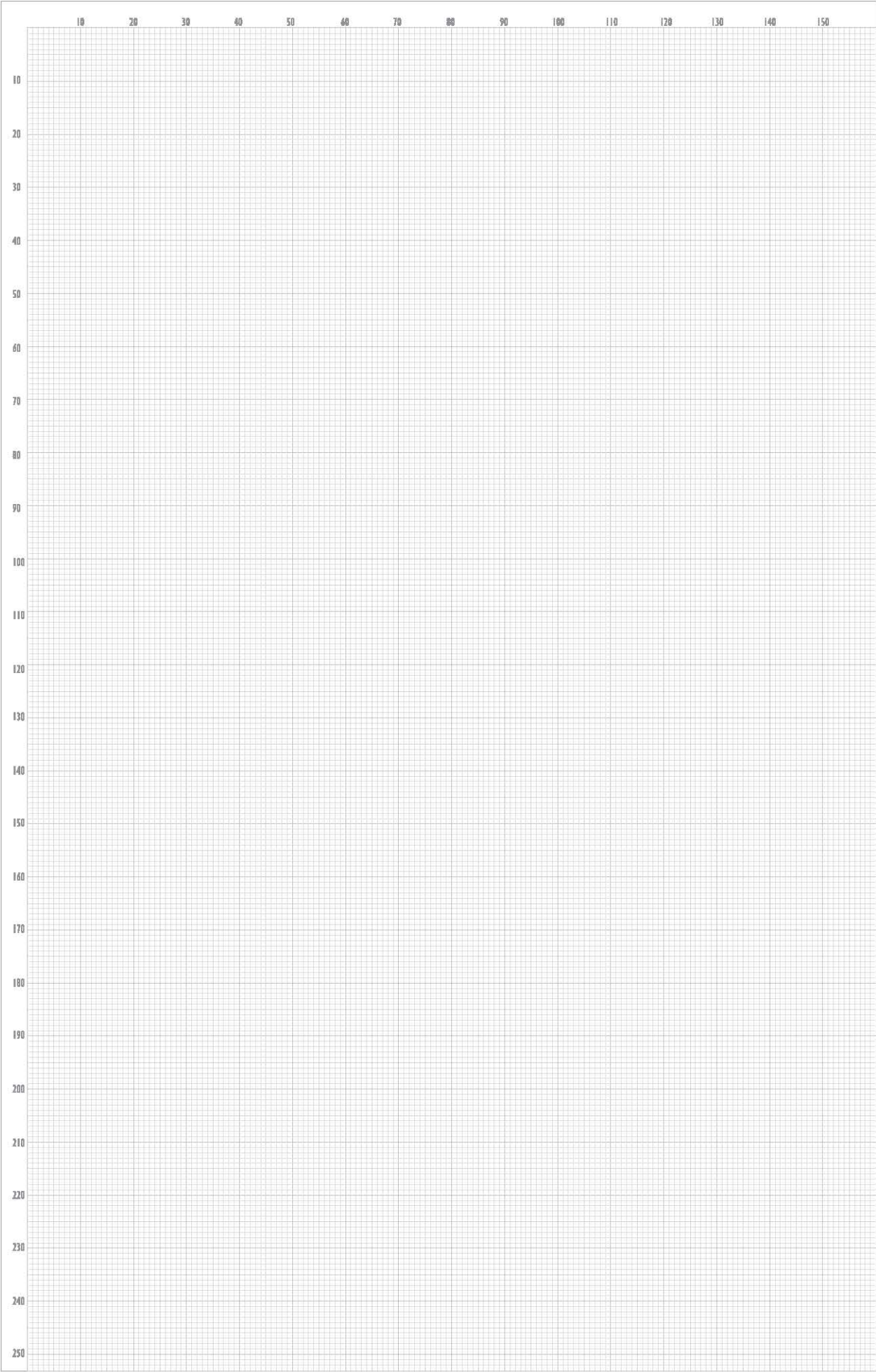
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Edition 18 - 2021



DIE No	DESCRIPTION
UA 1212	POST / RAIL
UA 1225	RAILING TUBE
UA 1855	FENCE SLAT
UA 2131	RAIL CHANNEL
UA 2132	RAIL INSERT
UA 3178	POST / RAIL
UA 3616	RAIL CHANNEL
UA 5489	RHS RAILING
UA 5949	18mm CAPPING
UA 6393	FENCE SLAT
UA 6394	FENCE SLAT
UA 6397	10mm SLAT INSERT
UA 6856	FENCE PANEL
UA 6857	TONGUE & GROOVE PANEL
UA 6859	SLIDING GATE TRACK
UA 7092	RAIL CHANNEL
UA 7613	FENCE PANEL
UA 7654	FENCE RAIL CHANNEL
UA 7655	FENCE RAIL LID
UA 7656	FENCE PAILING
UA 7657	FENCE PAILING
UA 7694	FENCE PANEL
UA 9098	17mm PANEL INSERT
UA 9102	POCKET CAP

**NOTE: RED INDICATES
= MILL RUN ONLY =
NON-STOCKED ITEM**

**MINIMUM ORDER
QUANTITY 200KG**

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BRANCH TO ENQUIRE**

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UA 3616

RAIL CHANNEL
kg/m 0.536 P 183
OAD 40 x 25

UA 5949

18mm CAPPING
kg/m 0.235 P 119
OAD 21.6 x 20

UA 6856

FENCE PANEL
kg/m 1.161 P 259
OAD 115 x 17

UA 6857

TONGUE & GROOVE PANEL
kg/m 1.099 P 330
OAD 106.8 x 17

UA 7613

FENCE PANEL
kg/m 0.647 P 149
OAD 60 x 17

UA 7654

FENCE RAIL CHANNEL
kg/m 0.546 P 181
OAD 40 x 20

UA 7655

FENCE RAIL LID
kg/m 0.170 P 84
OAD 33.19 x 5.2

UA 7656

FENCE PAILING
kg/m 0.301 P 77
OAD 20 x 20

UA 7657

FENCE PAILING
kg/m 0.251 P 63
OAD 20 x 20

UA 7694

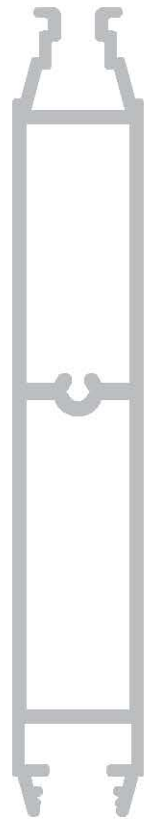
FENCE PANEL
kg/m 1.253 P 279
OAD 125 x 17

UA 9098

17mm PANEL INSERT
kg/m 0.300 P 164
OAD 35.85 x 19

UA 9102

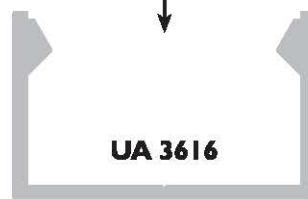
POCKET CAP
kg/m 0.134 P 85
OAD 20.3 x 12.08
Fits UA 9098 Insert

UA 7655**UA 6856****UA 7694****UA 6857****UA 7613****UA 5949****UA 7656****UA 1535****MOUNTING ANGLE**

Bracket for: UA 7654
Cut length: 32mm
Code: BALUST1535STK

UA 2244**MOUNTING CHANNEL**

Bracket for: UA 7654
Cut length: 12mm
Code: BALUST2244STK

UA 9098**UA 3616****UA 9102****UA 7657**

UA 6394



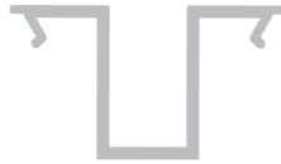
UA 1855



UA 6393



UA 6397



UA 1212

POST / RAIL
kg/m 0.807 P 156
OAD 40 x 40

UA 1225

RAILING TUBE
kg/m 0.192 P 63
OAD 20 x 20

UA 1855

FENCE SLAT
kg/m 0.480 P 112
OAD 50 x 10

UA 2131

RAIL CHANNEL
kg/m 0.286 P 161
OAD 40 x 20

UA 2132

RAIL INSERT
kg/m 0.302 P 155
OAD 37 x 17.9

UA 3178

POST / RAIL
kg/m 1.488 P 194
OAD 50 x 50

UA 3616

RAIL CHANNEL
kg/m 0.536 P 183
OAD 40 x 25

UA 5489

RHS RAILING
kg/m 0.483 P 117
OAD 40 x 20

UA 6393

FENCE SLAT
kg/m 0.686 P 192
OAD 90 x 10

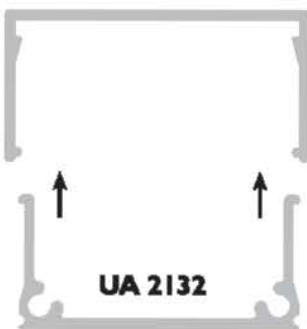
UA 6394

FENCE SLAT
kg/m 0.368 P 102
OAD 45 x 10

UA 6397 (MR)

10mm SLAT INSERT
kg/m 0.314 P 165
OAD 35.85 x 20

UA 2131

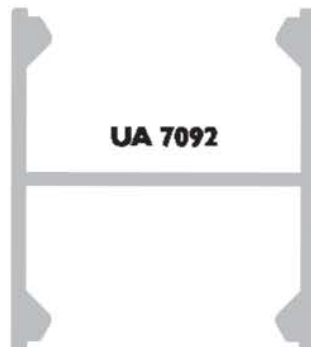


UA 2132

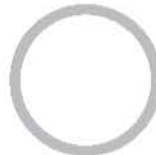
UA 3616



UA 7092



UA 1225



UA 1212



UA 5489



UA 3178



UA 6859



UA 7092

RAIL CHANNEL
kg/m 0.774 P 270
OAD 45 x 40

UA 6859

SLIDING GATE TRACK
kg/m 0.798 P 149
OAD 50.2 x 18

DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED.
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OAD = OVERALL DIMENSIONS
P = EXT PERIPHERY

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MR = MILL RUN ONLY • NON-STOCKED ITEM • MINIMUM ORDER 200KG

NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

Edition 18 - 2021

FENCE PANELS & GATES

Various options and designs can be created to suit the specific style you require.

FENCE POSTS

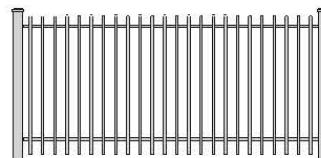
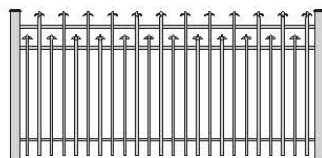
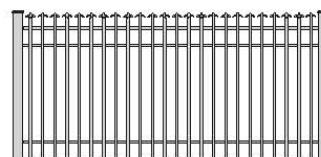
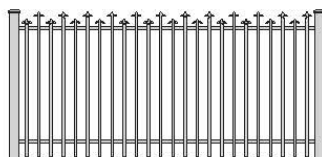
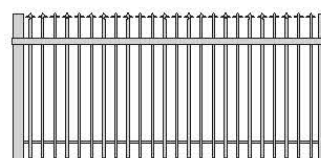
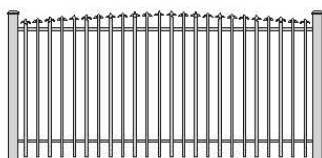
Various size and strength options available to suit the application required.

CAST BRACKETS

Modular Brackets
Post Bases
Fence Caps

CAST TOPS

Fence or Gate Top options to complete your design.



UAF 05
Button Top



UC 1984
45mm Football



UC 1941
95mm Spear



UC 1510
75mm Spike



UC 1981
Fence Post Base Full



UC 1982
Fence Post Base 3/4



UC 1983
Fence Post Base 1/2



UC 1963
1/2 Modular Bracket



UC 1942
Modular Bracket



UC 1943, 1944, 1940
Fence Cap
50mm, 75mm, 100mm



UC 1948
Small Gate Hinge Blank



UC 1948A
Gate Hinge Round Hole



UC 1947
Gate Hinge Slotted



DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED.
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O.A.D. = OVERALL DIMENSIONS
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DIE No	DESCRIPTION
UA 1280	TOP RAIL STIFFENER
UA 1333	POCKET CAP
UA 1988	RHS RAILING
UA 2096	HANDRAIL CHANNEL
UA 2097	CHANNEL LID
UA 2098	HANDRAIL
UA 2131	RAIL CHANNEL
UA 2132	RAIL INSERT
UA 2164	HANDRAIL
UA 2487	POST
UA 3347	HANDRAIL BASE
UA 3348	HIGHWAY HANDRAIL
UA 3349	RAILING
UA 3595	FLUSH CAP
UA 3596	HANDRAIL
UA 3597	BALUSTER
UA 3616	RAIL CHANNEL
UA 3617	GLAZING INSERT
UA 4007	POST
UA 4737	HANDRAIL
UA 6395	CHANNEL
UA 6396	20mm SLAT INSERT
UA 6585	POST
UA 7085	POST
UA 7086	GLAZING INSERT
UA 7087	FLUSH CAP
UA 7088	GLAZING BAR
UA 7089	GLAZING BEAD
UA 7090	HANDRAIL
UA 7091	FIXING BLOCK
UA 7092	RAIL CHANNEL
UA 9147	0.75 POST
UA 10414	20mm BALUSTER INFILL
UA 10415	100mm BALUSTER SPACER
UA 10423	HEAVY DUTY RAIL
UA 10424	FLUSH INFILL
UA 10444	POST SPIGOT

NOTE: RED INDICATES
= MILL RUN ONLY =
NON-STOCKED ITEM

MINIMUM ORDER
QUANTITY 200KG

CONTACT YOUR LOCAL
BRANCH TO ENQUIRE

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Edition 18 - 2021

UA 1280

TOP RAIL STIFFENER

kg/m 0.321 P 160

OAD 50 x 16

UA 1333

POCKET CAP

kg/m 0.121 P 78

OAD 16.5 x 12

UA 1988

RHS RAILING

kg/m 0.491 P 120

OAD 40 x 20

UA 3595

FLUSH CAP

kg/m 0.165 P 92

OAD 35.85 x 5.5

UA 3616

RAIL CHANNEL

kg/m 0.536 P 183

OAD 40 x 25

UA 3617

GLAZING INSERT

kg/m 0.313 P 172

OAD 35.85 x 20

UA 6396

20mm SLAT INSERT

kg/m 0.314 P 164

OAD 35.85 x 20

UA 7086

GLAZING INSERT

kg/m 0.441 P 236

OAD 58.5 x 24.5

UA 7087

FLUSH CAP

kg/m 0.299 P 136

OAD 58.5 x 5.47

UA 7088

GLAZING BAR

kg/m 0.415 P 211

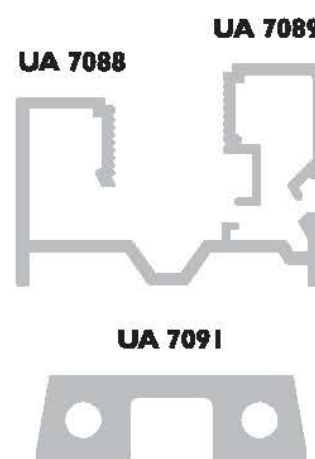
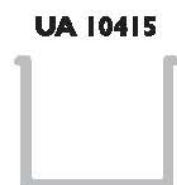
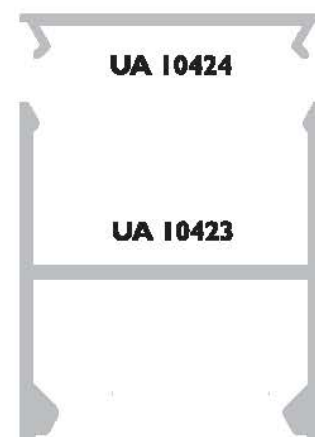
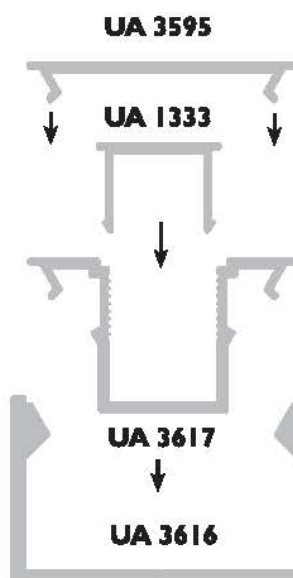
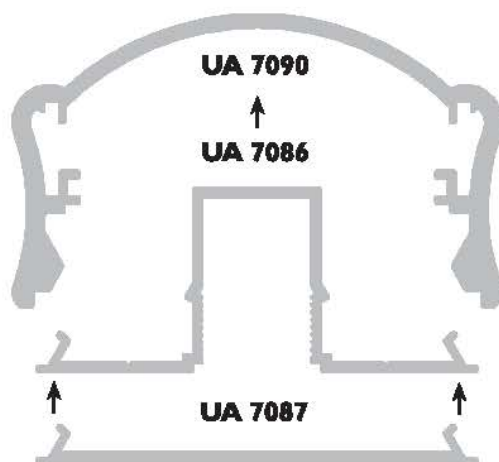
OAD 40 x 25

UA 7089

GLAZING BEAD

kg/m 0.182 P 113

OAD 18.7 x 12.9

**UA 7090**

HANDRAIL

kg/m 0.964 P 310

OAD 65 x 39

Cast End Cap UC1501

UA 7091

FIXING BLOCK

kg/m 0.732 P 108

OAD 35.6 x 12

UA 10414

20mm BALUSTER INFILL

kg/m 0.333 P 173

OAD 35.85 x 20

UA 10415

100mm BALUSTER SPACER

kg/m 0.192 P 111

OAD 20 x 18

UA 10423

HEAVY DUTY RAIL

kg/m 0.697 P 263

OAD 45 x 40

UA 10424

FLUSH INFILL

kg/m 0.186 P 102

OAD 40 x 5.85

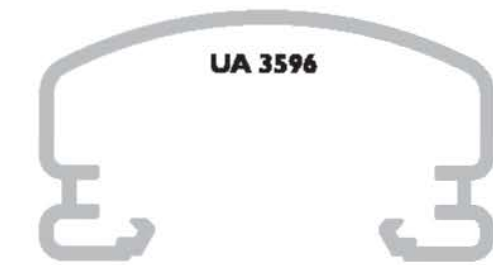
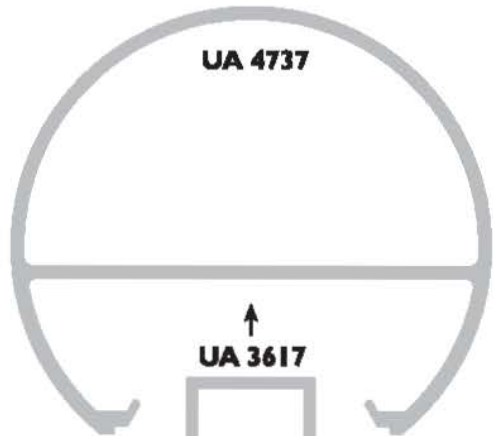
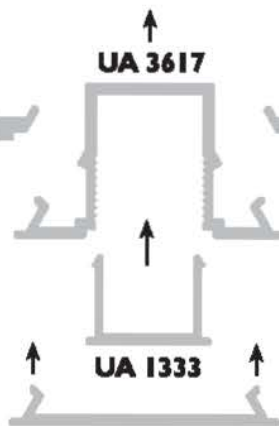
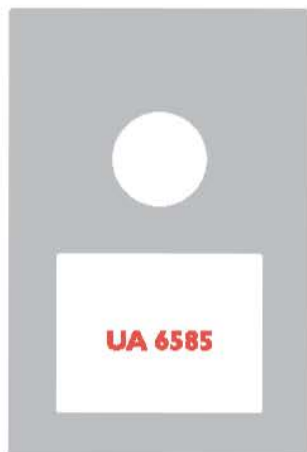
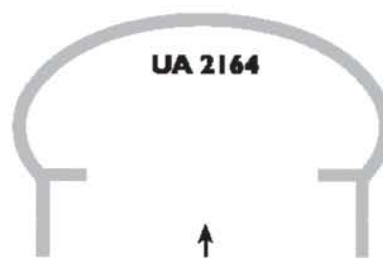
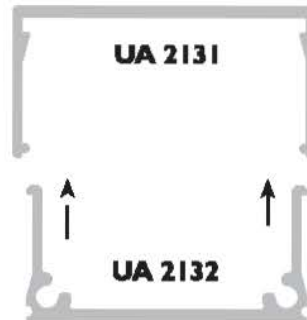
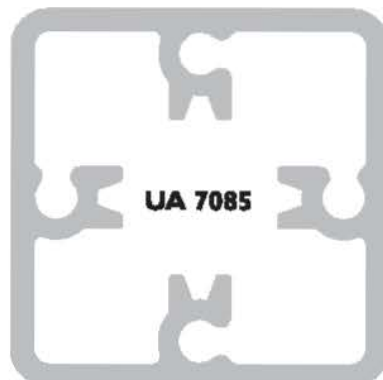


DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS. OAD = OVERALL DIMENSIONS P = EXT PERIPHERY

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Edition 18 - 2021

MR = MILL RUN ONLY • NON-STOCKED ITEM • MINIMUM ORDER 200KG**NOTE:** Not all products are available ex-stock, check with your local branch for advice on availability.

**UA 3596****UA 4737****UA 3617****UA 1333****UA 3595****UA 3597****UA 6585****UA 2164****UA 2131****UA 2132****UA 4007****UA 10444****UA 7085****UA 1333**

POCKET CAP
kg/m 0.121 P 78
OAD 16.5 x 12

UA 2131

RAIL CHANNEL
kg/m 0.286 P 161
OAD 40 x 20

UA 2132

RAIL INSERT
kg/m 0.302 P 155
OAD 37 x 17.9

UA 2164

HANDRAIL
kg/m 0.465 P 219
OAD 50 x 32.12
Cast End Cap UC1995

UA 3595

FLUSH CAP
kg/m 0.165 P 92
OAD 35.85 x 5.5

UA 3596

HANDRAIL
kg/m 0.782 P 324
OAD 60 x 33
Cast End Cap UC1994

UA 3597

BALUSTER
kg/m 0.418 P 100
OAD 25 x 25

UA 3617

GLAZING INSERT
kg/m 0.313 P 172
OAD 35.85 x 20

UA 4007

POST
kg/m 2.165 P 160
OAD 40 x 40

UA 4737

HANDRAIL
kg/m 1.137 P 284
OAD 63.5 x 56.57

UA 6585 (MR)

POST
kg/m 4.496 P 200
OAD 60 x 40

UA 10444

POST SPIGOT fits 4007, 7085
kg/m 1.626 P 151
OAD 29.8 x 29.8

UA 7085

POST
kg/m 2.128 P 192
OAD 50 x 50

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NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

Edition 18 - 2021

UA 2096

HANDRAIL CHANNEL

kg/m 0.392 P 187

OAD 38 x 25.4

UA 2097

CHANNEL LID

kg/m 0.161 P 82

OAD 35 x 4

UA 2098

HANDRAIL

kg/m 0.543 P 233

OAD 50 x 40.95

Cast End Cap UC1987

UA 2487

POST

kg/m 1.482 P 140

OAD 35 x 35

UA 3347 (MR)

HANDRAIL BASE

kg/m 1.144 P 275

OAD 113.22 x 10

UA 3348 (MR)

HIGHWAY HANDRAIL

kg/m 1.729 P 428

OAD 120 x 50

UA 3349

RAILING fits 3347

kg/m 0.636 P 116

OAD 50 x 25

UA 6395

CHANNEL

kg/m 0.250 P 136

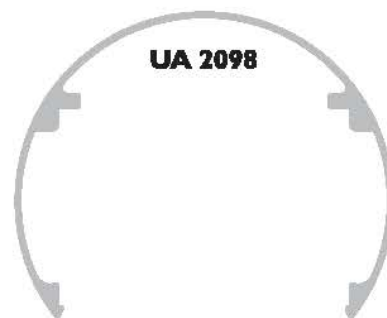
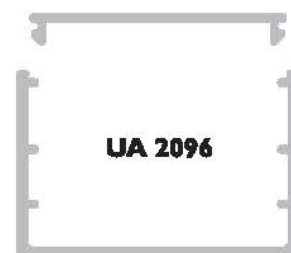
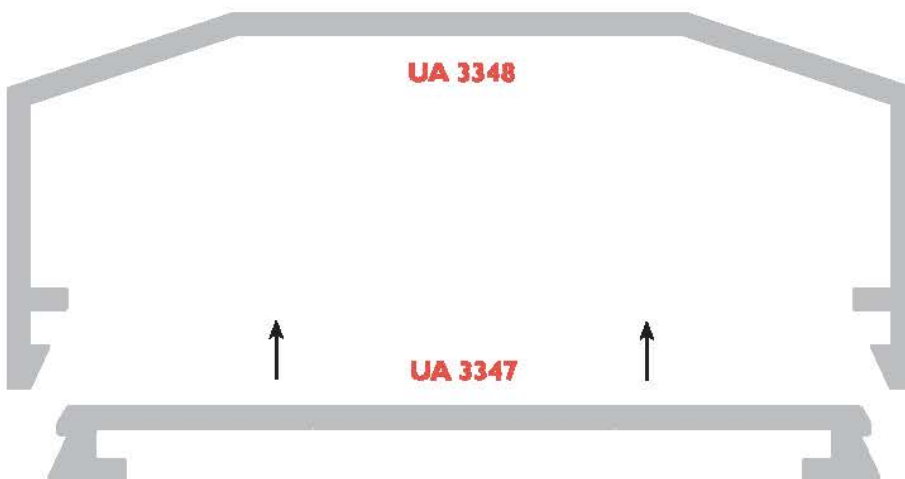
OAD 40.75 x 14.7

UA 9147 (MR)

0.75 POST

kg/m 2.237 P 194

OAD 50 x 20

UA 6395**UA 2098****UA 3349****UA 2097****UA 2096****UA 9147****UA 2487****UA 3348****UA 3347**

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Edition 18 - 2021

MR = MILL RUN ONLY • NON-STOCKED ITEM • MINIMUM ORDER 200KG

NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

DIE No	DESCRIPTION
--------	-------------

SIGN FRAME

UA 1332	10mm SIGN FRAME
UA 1366	6mm SIGN FRAME
UA 1367	6mm SIGN FRAME
UA 1809	7mm SIGN FRAME
UA 2982	7mm SIGN FRAME
UA 3989	7mm SIGN FRAME
UA 3990	7mm SIGN FRAME
UA 5966	6mm SIGN FRAME

**NOTE: RED INDICATES
= MILL RUN ONLY =
NON-STOCKED ITEM**

**MINIMUM ORDER
QUANTITY 200KG**

**CONTACT YOUR LOCAL
BRANCH TO ENQUIRE**

STREET SIGN

UA 2032	POST - BLADE HOLDER
UA 2033	STREET SIGN BLADE
UA 2080	STREET SIGN BLADE
UA 2115	SIGN BLADE EXTRA
UA 5430	STREET SIGN BLADE

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UA 1809

7mm SIGN FRAME
kg/m 2.383 P 701
OAD 200 x 20

UA 2982

7mm SIGN FRAME
kg/m 2.388 P 632
OAD 200 x 25

UA 5966

6mm SIGN FRAME
kg/m 1.116 P 601
OAD 160.6 x 27.25

UA 2982**UA 1809****UA 5966**

SIGN FRAME CORNER
(POLYPROPYLENE)

Fits UA 5966
Code: ULL 5966



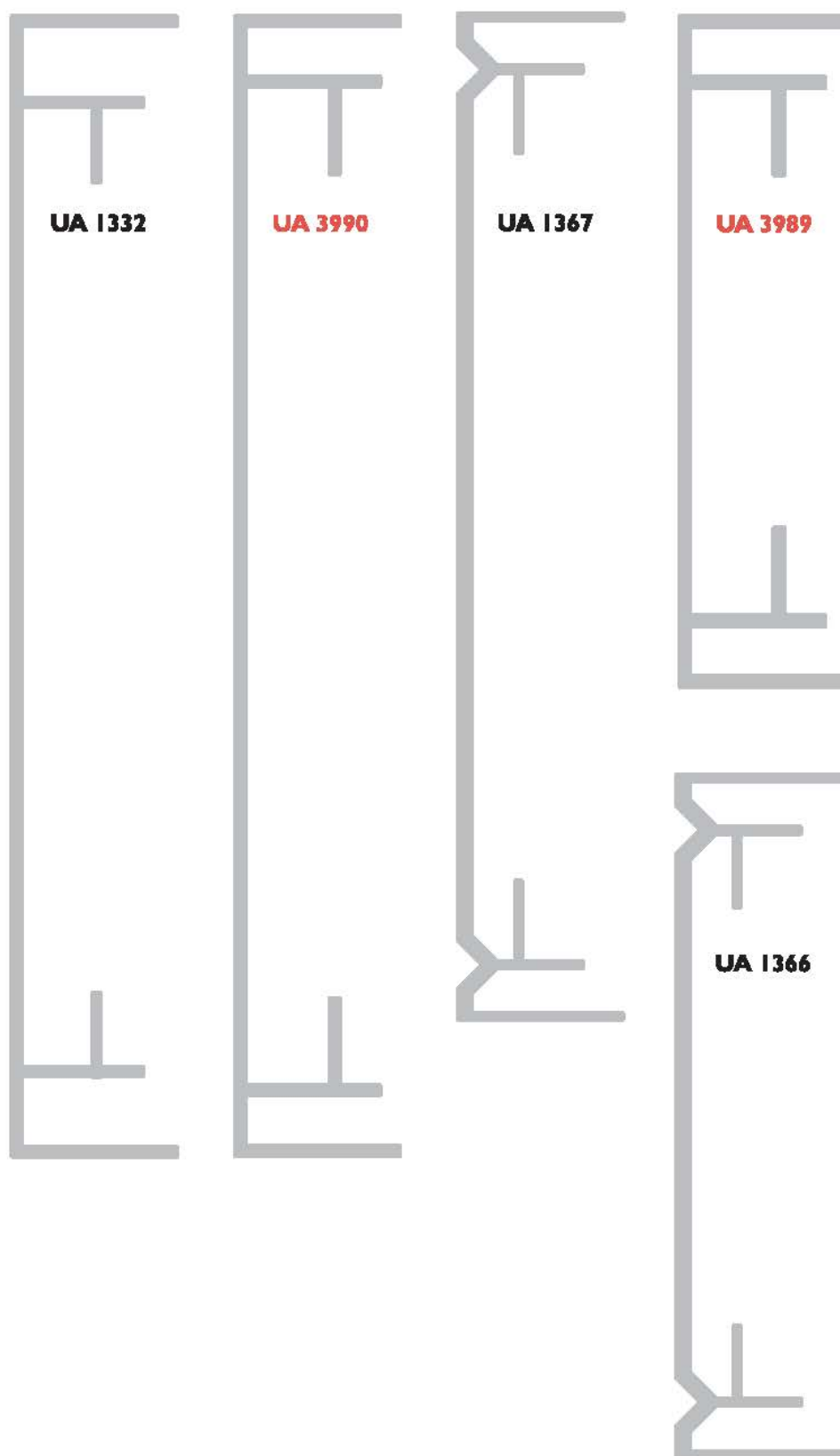
DIAGRAMS ACTUAL SIZE UNLESS
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Edition 18 - 2021

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NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.



UA 1332
10mm SIGN FRAME
kg/m 1.479 P 559
OAD 170 x 25

UA 1366
6mm SIGN FRAME
kg/m 1.118 P 412
OAD 102 x 25

UA 1367
6mm SIGN FRAME
kg/m 1.443 P 508
OAD 150 x 25

UA 3989 (MR)
7mm SIGN FRAME
kg/m 1.144 P 427
OAD 100 x 25

UA 3990 (MR)
7mm SIGN FRAME
kg/m 1.522 P 567
OAD 170 x 25

UA 1366

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Edition 18 - 2021

UA 2032

POST - BLADE HOLDER

kg/m 0.964 P 228

OAD 57.95 x 50

UA 2033

STREET SIGN BLADE

kg/m 1.291 P 366

OAD 150 x 20

UA 2080

STREET SIGN BLADE

kg/m 1.632 P 466

OAD 200 x 20

UA 2115

SIGN BLADE EXTRA fits 2033, 2080

kg/m 0.756 P 249

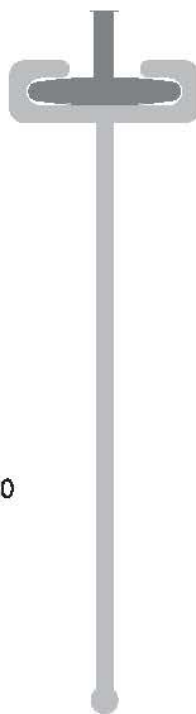
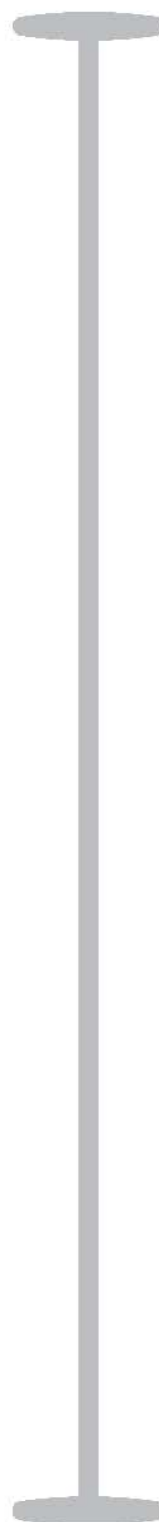
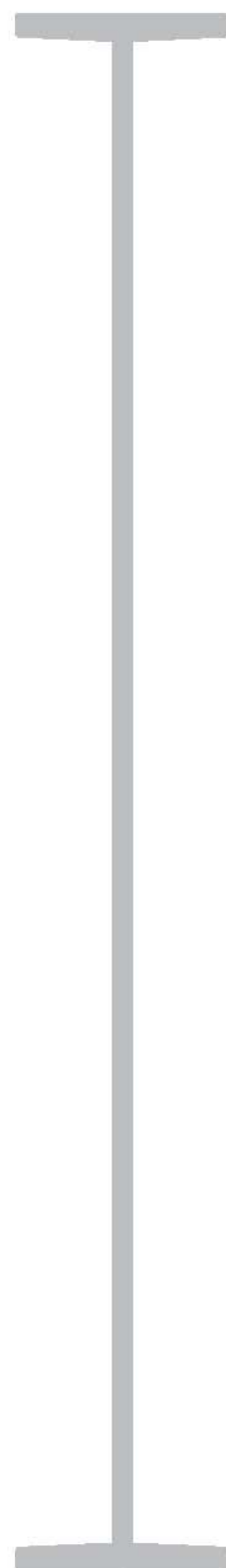
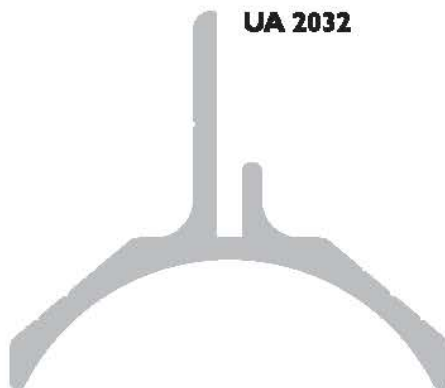
OAD 86.31 x 25

UA 5430 (MR)

STREET SIGN BLADE

kg/m 1.852 P 519

OAD 207.2 x 28

UA 2115**UA 2033****UA 2080****UA 5430****UA 2032**

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Edition 1B - 2021

MR = MILL RUN ONLY • NON-STOCKED ITEM • MINIMUM ORDER 200KG

NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

DIE No	DESCRIPTION
--------	-------------

UA 1633	HEATSINK
UA 1635	HEATSINK
UA 2238	HEATSINK
UA 2651	HEATSINK
UA 3133	HEATSINK
UA 3295	HEATSINK
UA 4173	HEATSINK
UA 4718	HEATSINK

NOTE: RED INDICATES
= MILL RUN ONLY =
NON-STOCKED ITEM

MINIMUM ORDER
QUANTITY 200KG

CONTACT YOUR LOCAL
BRANCH TO ENQUIRE

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OVD = OVERALL DIMENSIONS
P = EXT PERIPHERY
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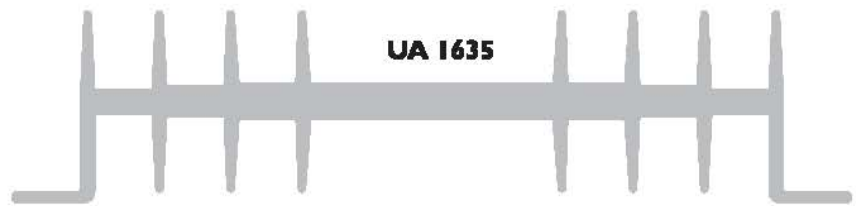
Edition 18 - 2021

UA 1635

HEATSINK

kg/m 1.821 P 542

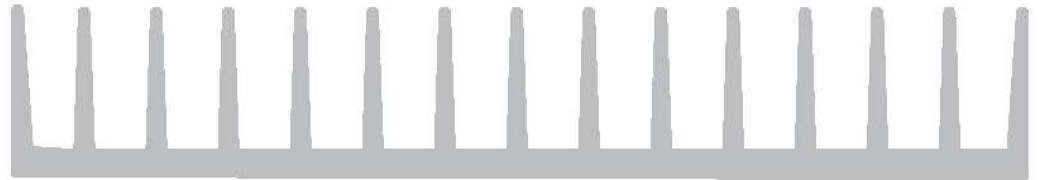
OAD 114.3 x 25.4

**UA 1635****UA 2238**

HEATSINK

kg/m 3.166 P 806

OAD 135 x 22.8

**UA 2238****UA 2651 (MR)**

HEATSINK

kg/m 3.088 P 928

OAD 100 x 30

UA 3133

HEATSINK

kg/m 0.769 P 236

OAD 43.17 x 9.89

UA 3295**UA 3133****UA 3295 (MR)**

HEATSINK

kg/m 6.951 P 1385

OAD 150 x 40

UA 4718 (MR)

HEATSINK

kg/m 1.003 P 520

OAD 101.6 x 7.62

UA 4718**UA 2651**

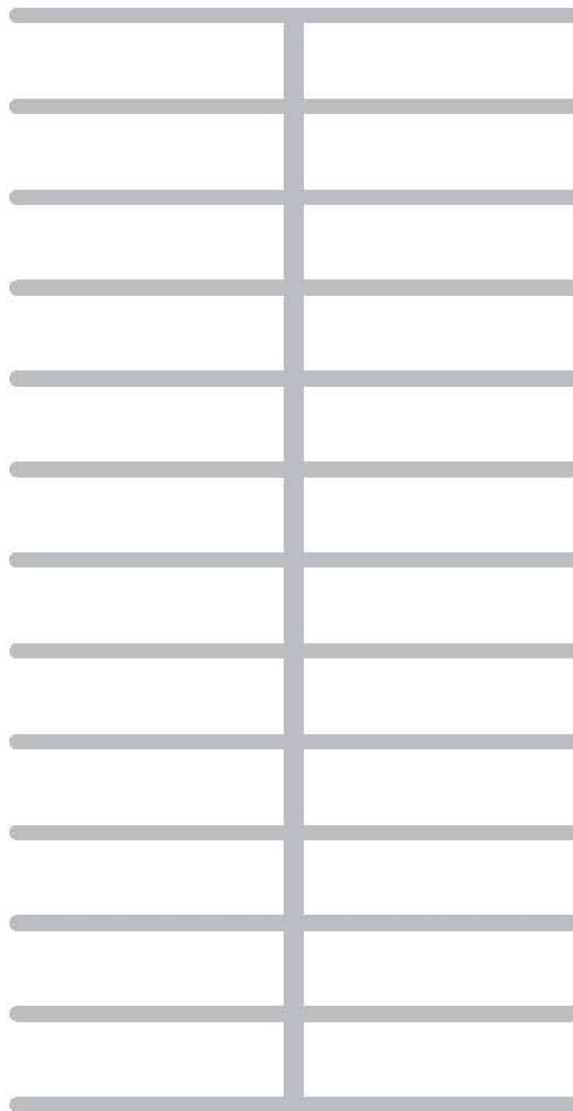
DIAGRAMS ACTUAL SIZE UNLESS
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Edition 18 - 2021

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NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

UA 4173**UA 1633**

HEATSINK

kg/m 3.455 P 1130

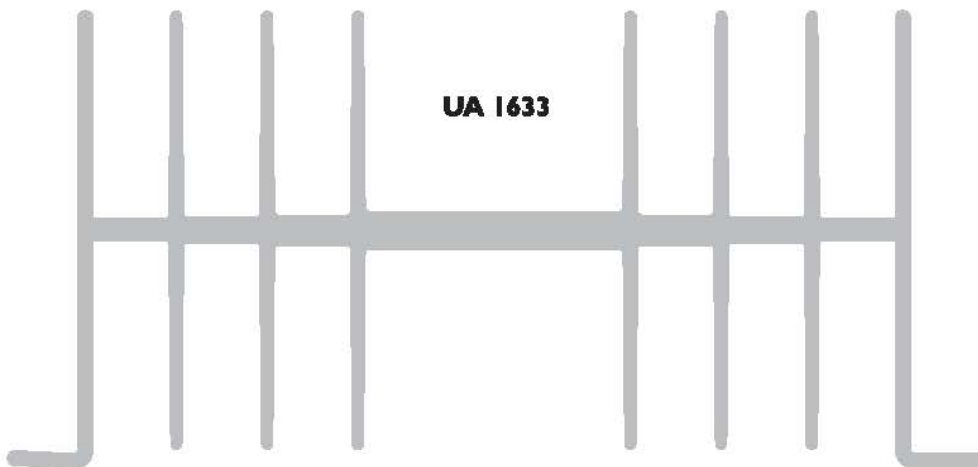
OAD 134 x 60.5

UA 4173 (MR)

HEATSINK

kg/m 5.820 P 2140

OAD 145.9 x 75

UA 1633

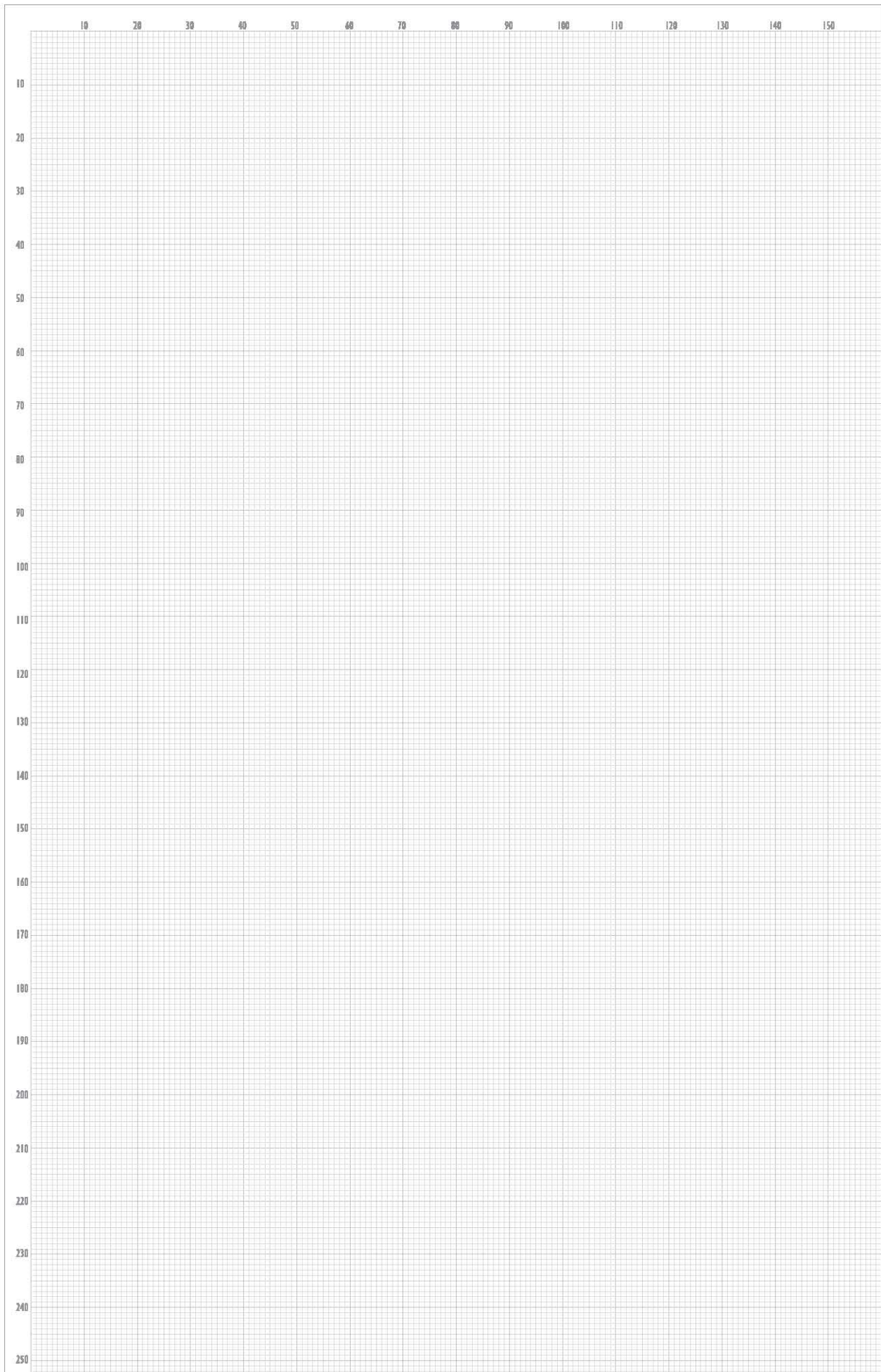
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Edition 18 - 2021



DIE No DESCRIPTION

WARDROBE - CAVITY

UA 1820	DOOR STILE
UA 1821	DOOR TOP RAIL
UA 1822	DOOR BOTTOM RAIL
UA 1824	DOUBLE TRACK
UA 1848	COAT HANGER RAIL
UA 2590	DOUBLE HEAD
UA 2987	SLIDING DOOR TRACK
UA 2988	SLIDING DOOR PELMET
UA 2999	TRIPLE TRACK
UA 3000	TRIPLE HEAD
UA 3002	SINGLE HEAD
UA 3096	SINGLE DOOR TRACK
UA 3097	DOUBLE DOOR TRACK
UA 3098	PELMET
UA 5148	HANDLE CAP
UA 5149	HANDLE CAP
UA 5150	CAVITY JAMB
UA 7329	COAT HANGER RAIL

NOTE: RED INDICATES
= MILL RUN ONLY =
NON-STOCKED ITEM

MINIMUM ORDER
QUANTITY 200KG

CONTACT YOUR LOCAL
BRANCH TO ENQUIRE

VEE GLIDE

UA 2027	HANGER RAIL
UA 2943	ANGLE
UA 6556	SHELF BRACKET
UA 6950	CHANNEL JAMB
UA 6951	COVER JAMB
UA 6952	RETURN JAMB
UA 6953	DOUBLE HEAD
UA 6954	DOUBLE SILL
UA 6955	TRIPLE HEAD
UA 6956	TRIPLE SILL
UA 6957	SASH RAIL
UA 6958	GRIP STILE
UA 6959	LIPPED STILE
UA 6969	LIPPED SASH RAIL
UA 6970	OVAL HANGER RAIL
UA 6971	TRIM CHANNEL
UA 8560	CHANNEL JAMB
UA 8767	BOTTOM DOOR TRACK

DIAGRAMS ACTUAL SIZE UNLESS
OTHERWISE INDICATED.
DIAGRAMS ARE SCHEMATIC ONLY
AND NOT INTENDED AS
SPECIFICATION DRAWINGS.
OAB = OVERALL DIMENSIONS
P = EXT PERIPHERY
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MR = MILL RUN ONLY • NON-STOCKED ITEM • MINIMUM ORDER 200KG

NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

Edition 18 - 2021

UA 1820

DOOR STILE
kg/m 0.510 P 176
OAD 31 x 24.5

UA 1821

DOOR TOP RAIL
kg/m 0.351 P 167
OAD 22 x 20

UA 1822

DOOR BOTTOM RAIL
kg/m 0.663 P 315
OAD 55 x 22

UA 1824

DOUBLE TRACK
kg/m 0.549 P 261
OAD 61 x 22

UA 1848

COAT HANGER RAIL
kg/m 0.553 P 277
OAD 57 x 52.5

UA 2590

DOUBLE HEAD
kg/m 0.846 P 403
OAD 68.6 x 37

UA 2999 (MR)

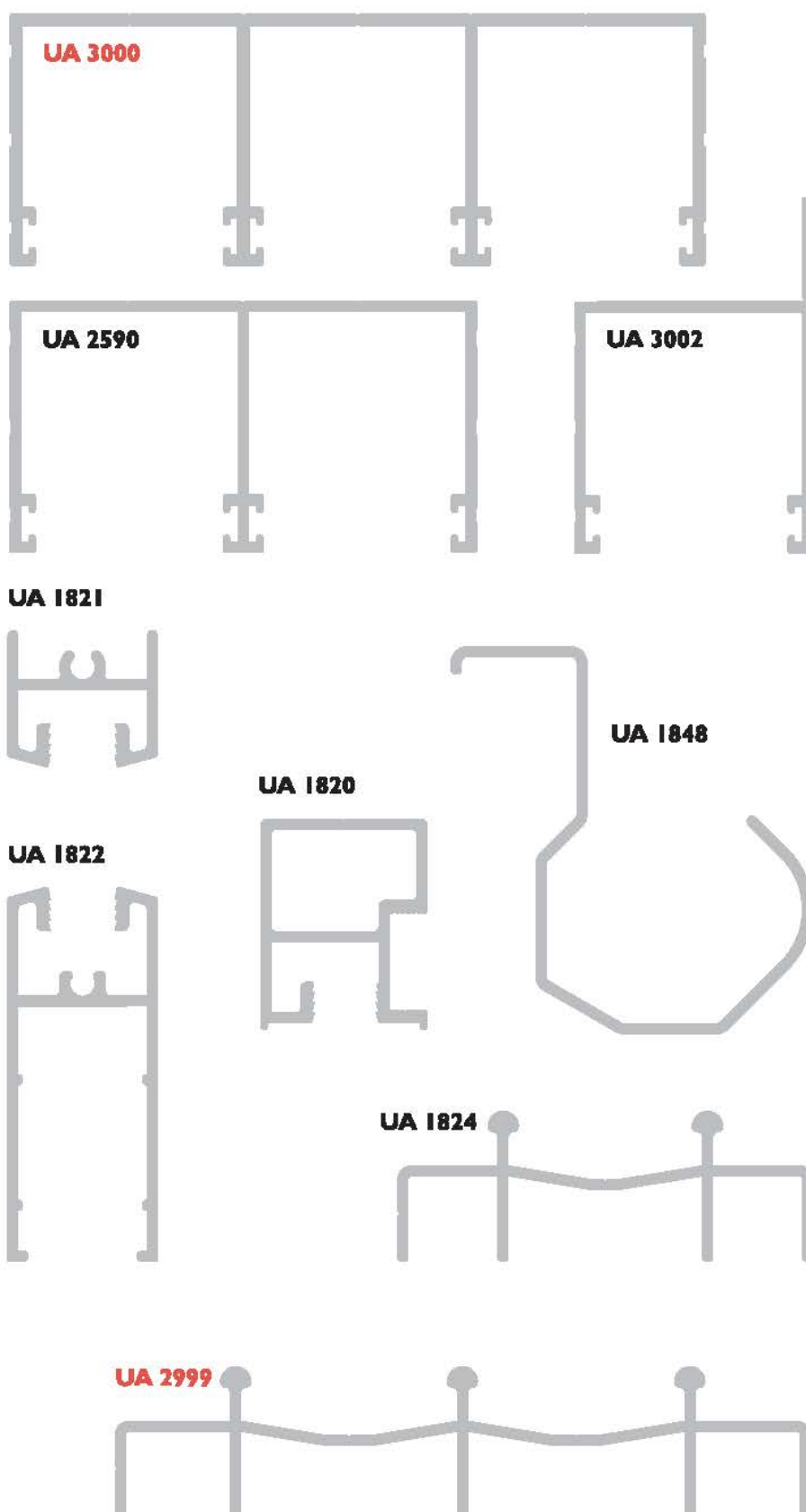
TRIPLE TRACK
kg/m 0.819 P 388
OAD 102.1 x 22

UA 3000 (MR)

TRIPLE HEAD
kg/m 1.296 P 563
OAD 102.1 x 37

UA 3002

SINGLE HEAD
kg/m 0.566 P 272
OAD 52.3 x 35.1



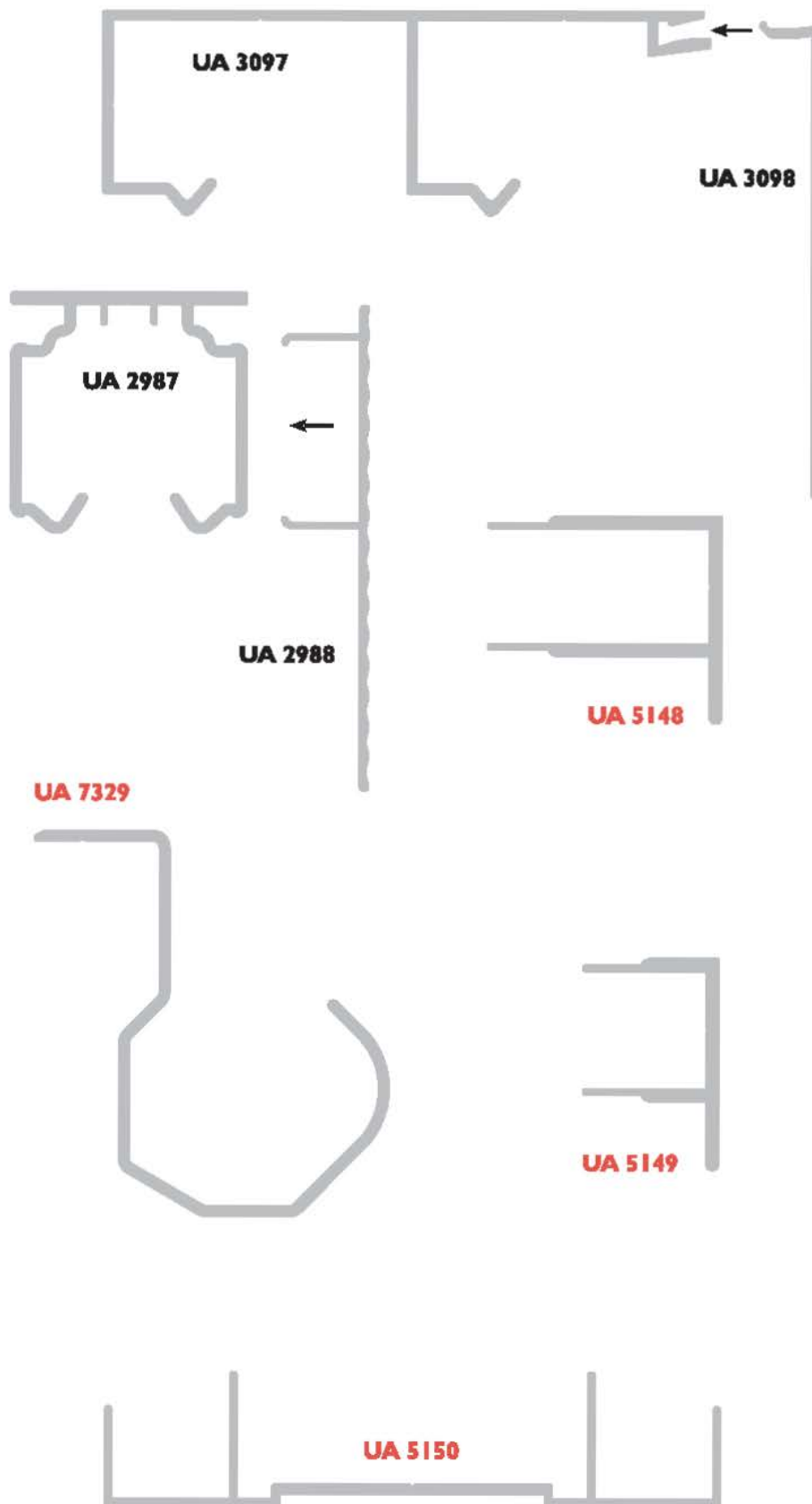
DIAGRAMS ACTUAL SIZE UNLESS
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NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

**UA 2987**

SLIDING DOOR TRACK
kg/m 0.629 P 279
OAD 35.8 x 35.05

UA 2988

SLIDING DOOR PELMET
kg/m 0.318 P 194
OAD 72 x 13.06

UA 3097

DOUBLE DOOR TRACK
kg/m 0.818 P 380
OAD 90 x 30.4

UA 3098

PELMET
kg/m 0.279 P 159
OAD 70.65 x 9.1

UA 5148 (MR)

HANDLE CAP
kg/m 0.471 P 196
OAD 35 x 31

UA 5149 (MR)

HANDLE CAP
kg/m 0.312 P 136
OAD 31 x 20

UA 5150 (MR)

CAVITY JAMB
kg/m 0.615 P 316
OAD 90 x 20

UA 7329 (MR)

COAT HANGER RAIL
kg/m 0.545 P 273
OAD 57 x 52.5

ASSEMBLY DETAILS

Refer: 22-5 to 22-8

DIAGRAMS ACTUAL SIZE UNLESS
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Edition 18 - 2021

UA 6950

CHANNEL JAMB
kg/m 0.554 P 313
OAD 126 x 16

UA 6951

COVER JAMB
kg/m 0.510 P 269
OAD 85.5 x 34.5

UA 6952

RETURN JAMB
kg/m 0.716 P 389
OAD 126.5 x 34

UA 6953

DOUBLE HEAD
kg/m 0.702 P 397
OAD 81.6 x 40

UA 6954

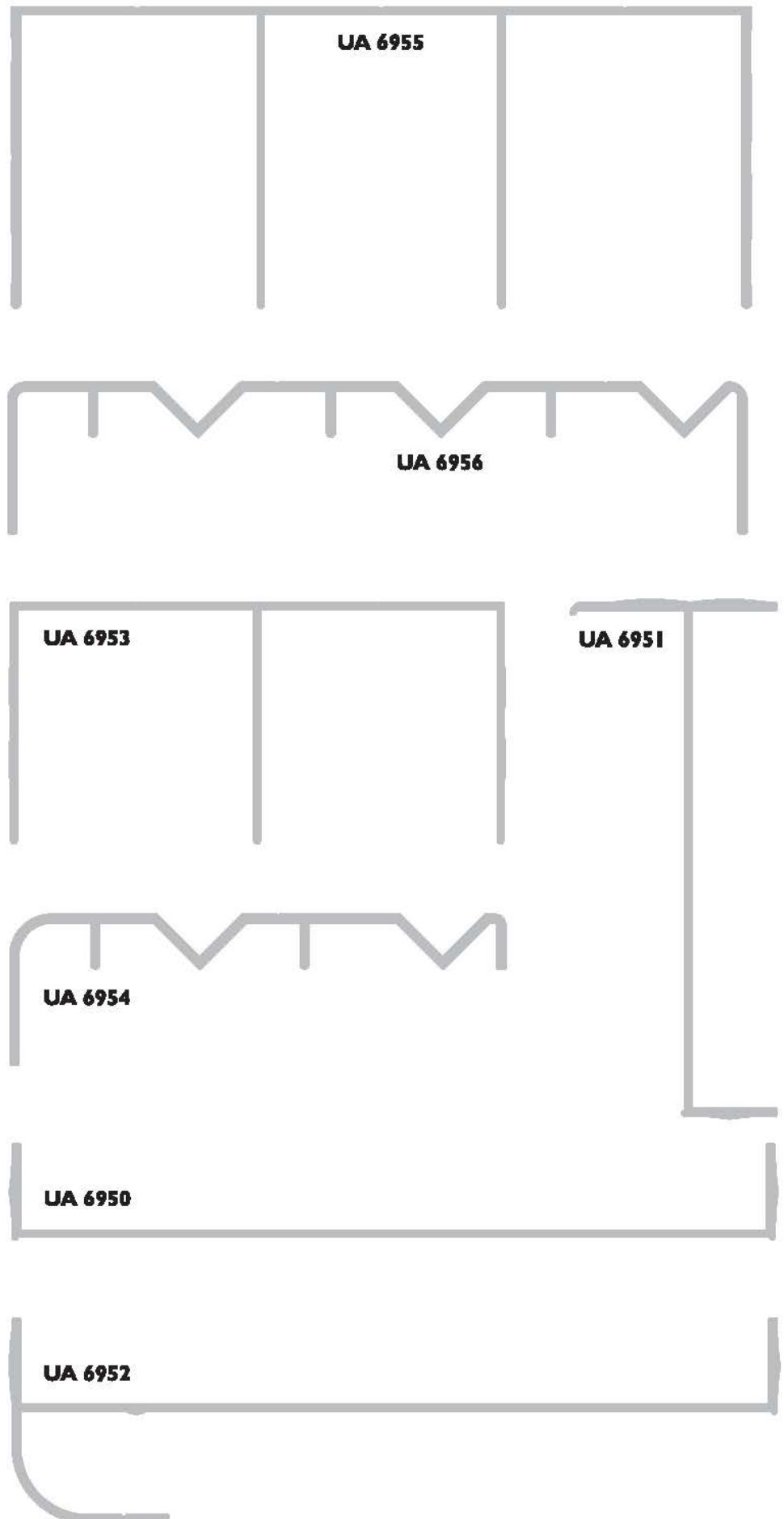
DOUBLE SILL
kg/m 0.592 P 277
OAD 82.1 x 25.2

UA 6955

TRIPLE HEAD
kg/m 1.247 P 634
OAD 122.5 x 50

UA 6956

TRIPLE SILL
kg/m 0.898 P 419
OAD 122.3 x 25.2



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Edition 1B - 2021

MR = MILL RUN ONLY • NON-STOCKED ITEM • MINIMUM ORDER 200KG

NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

UA 6556**UA 6957****UA 2027****UA 2027**

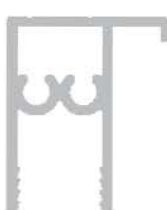
HANGER RAIL
kg/m 0.246 P 80
OAD 25.4 x 25.4

UA 2943

ANGLE
kg/m 0.218 P 104
OAD 32 x 20

UA 6556 (MR)

SHELF BRACKET
kg/m 0.502 P 165
OAD 45.5 x 27.8

UA 6971**UA 6969****UA 6970****UA 6957**

SASH RAIL
kg/m 0.298 P 114
OAD 26 x 14.25

UA 6958

GRIP STILE
kg/m 0.272 P 183
OAD 34 x 21.2

UA 6959

LIPPED STILE
kg/m 0.275 P 173
OAD 34 x 19.5

UA 2943**UA 6959****UA 6958****UA 6969**

LIPPED SASH RAIL
kg/m 0.318 P 131
OAD 26 x 21.4

UA 6970

OVAL HANGER RAIL
kg/m 0.275 P 78
OAD 30 x 15

UA 8560**UA 6971**

TRIM CHANNEL
kg/m 0.197 P 117
OAD 20.2 x 19.2

UA 8560 (MR)

CHANNEL JAMB
kg/m 0.417 P 231
OAD 86.5 x 16

ACCESSORIES:**WVG300 DOOR ROLLER**

Code: WARDVGBEARING

WVG100 HEAD GUIDE

Code: WARDVGGUIDEWHPR

WVG130WH OVAL RAIL BRACKET

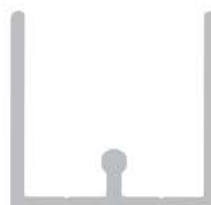
Code: WARDVGOVALBKTWH

WA200CL 4mm GLAZING CHANNEL

Code: WARDVGGLASSFR

WVG200 STILE BUFFER STRIP

Code: WARDVGBUFFERFR

UA 8767**UA 8767 (MR)**

BOTTOM DOOR TRACK
kg/m 0.325 P 160
OAD 26 x 25

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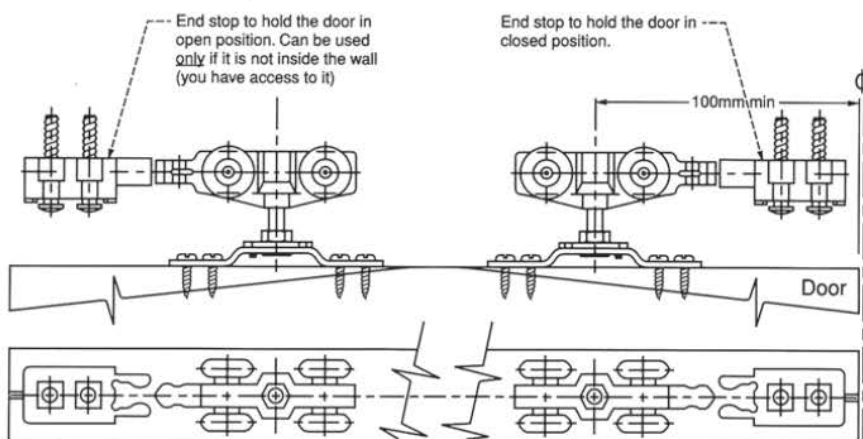
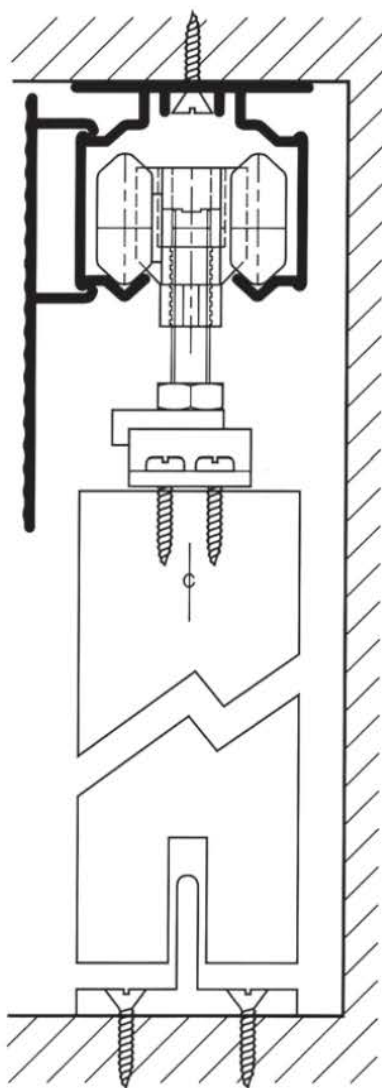
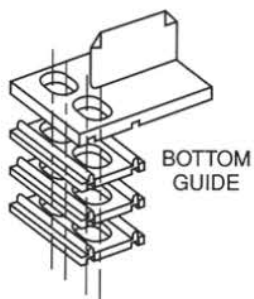
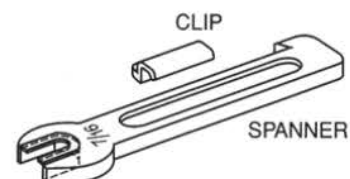
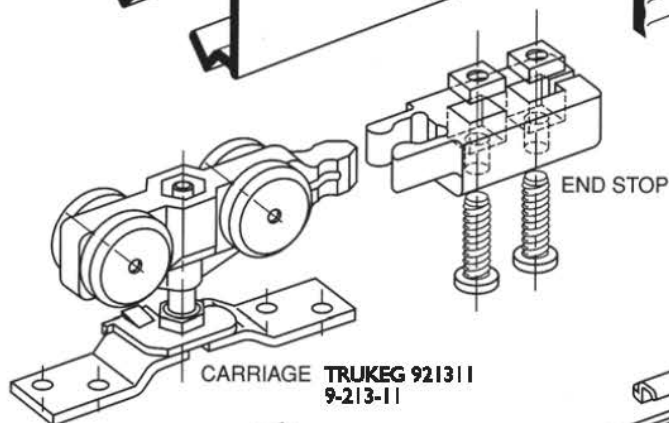
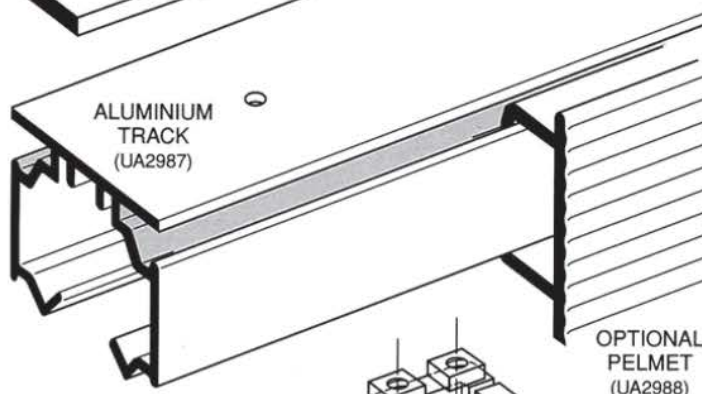
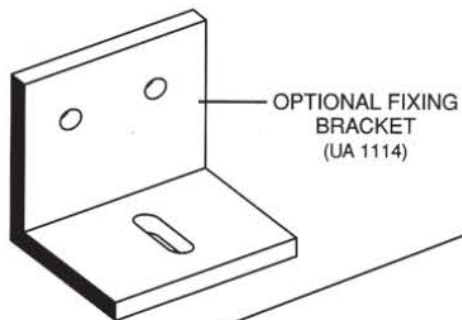
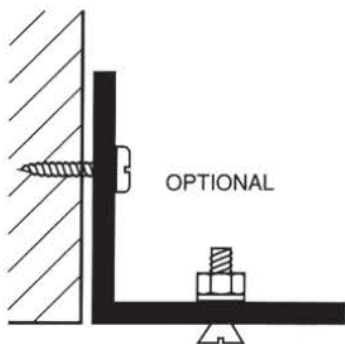
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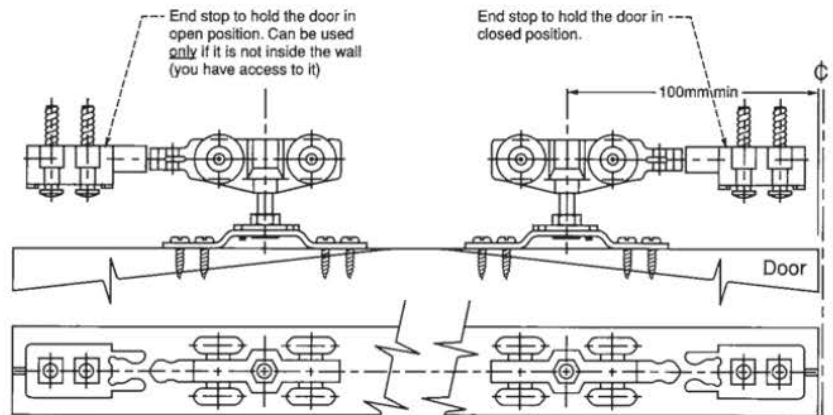
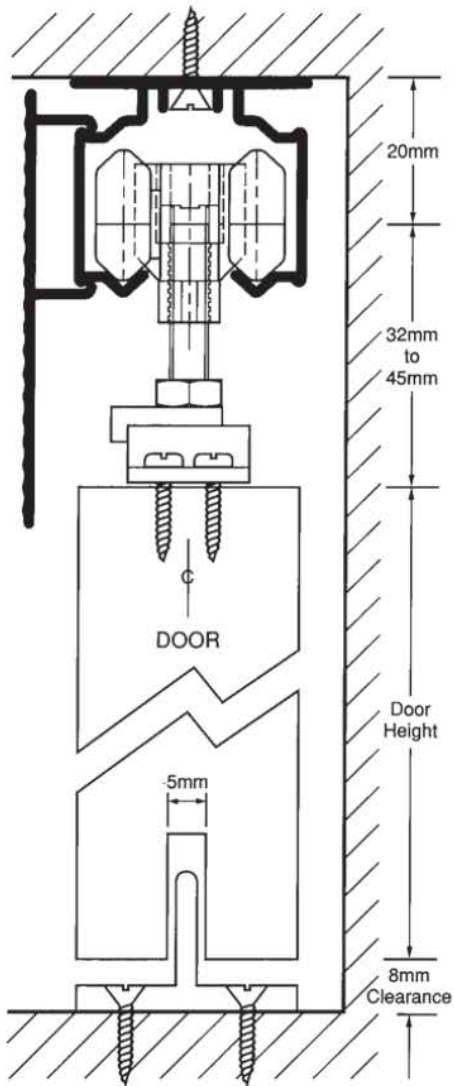
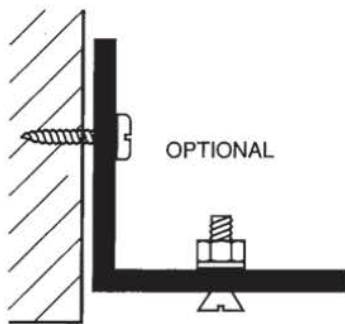
MR = MILL RUN ONLY • NON-STOCKED ITEM • MINIMUM ORDER 200KG

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Edition 18 - 2021



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TRACK AND PELMET SOLD AS INDIVIDUAL LENGTHS ONLY

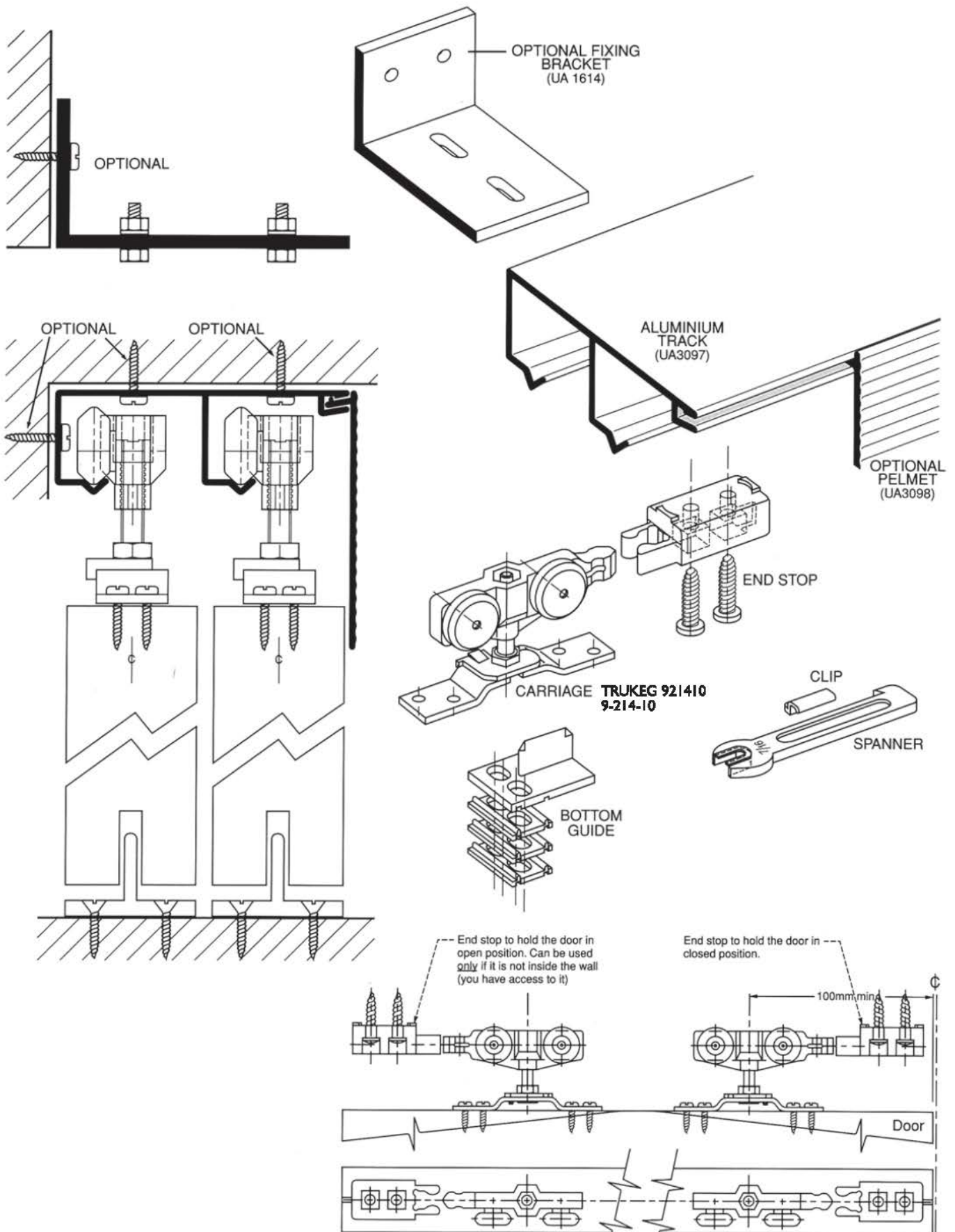
BOXED SET OF COMPONENTS INCLUDES

- 2 CARRIAGES
- 2 END STOPS
- 1 BOTTOM GUIDE SET
- 1 SPANNER AND CLIP
- SCREWS

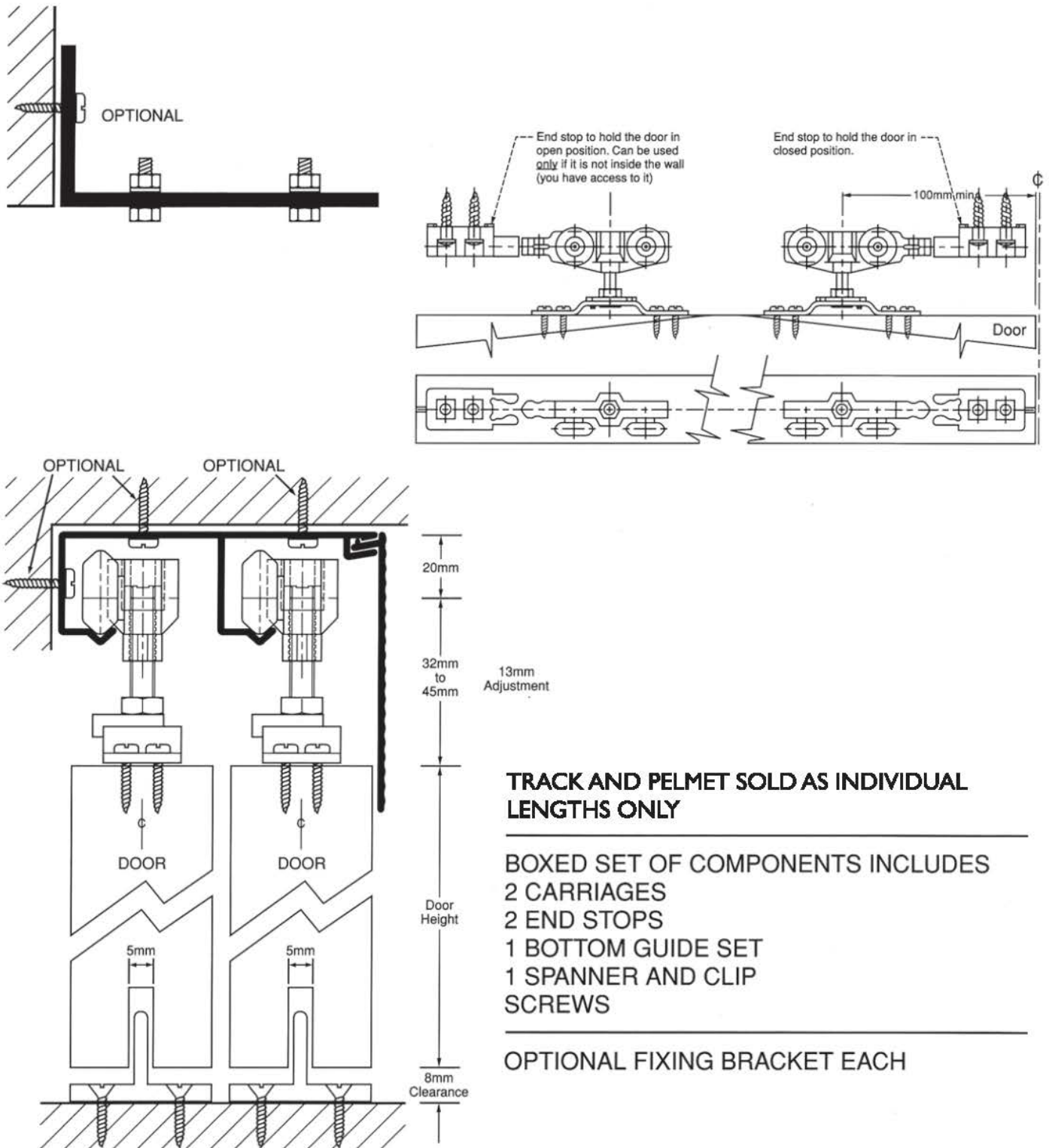
OPTIONAL FIXING BRACKET EACH

DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED.
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□ = OVERALL DIMENSIONS
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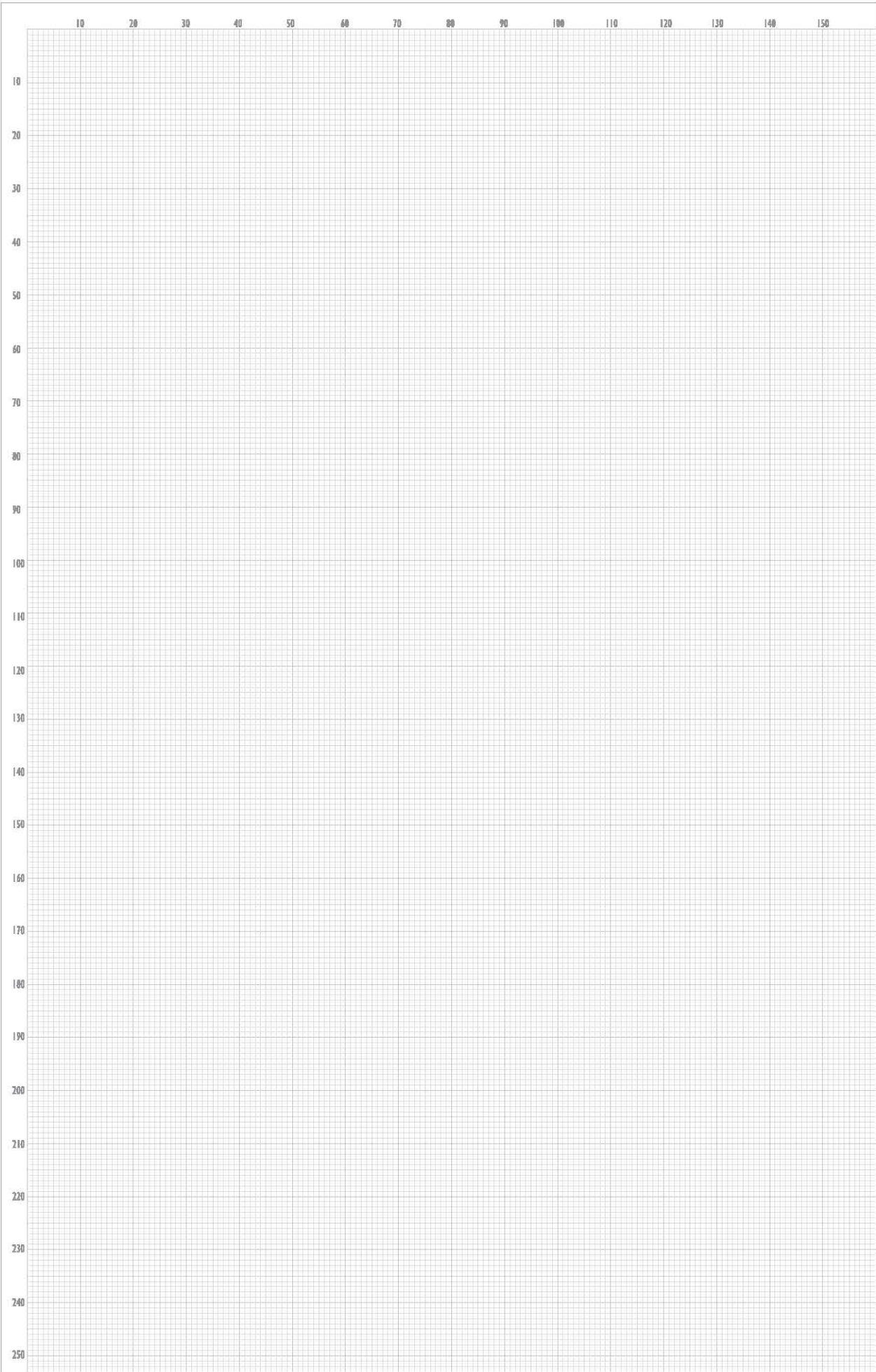
DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED.
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DIE No	DESCRIPTION	DIE No	DESCRIPTION
UA 1340	LT7 DOOR CAP	UA 3465	TOE BOARD
UA 1341	SLIDING DOOR TRACK	UA 3703	TRACK
UA 1342	3mm SPLITTEE	UA 3769	SLIDING DOOR TEE
UA 1343	SLIDING DOOR TEE	UA 4130	GLASS CHANNEL
UA 1345	DOOR TEE	UA 4382	CONCRETE SCREED
UA 1347	TICKET HOLDER	UA 4473	BENCH SEAT TOP
UA 1348	TICKET HOLDER	UA 4587	SKIRTING
UA 1350	CURTAIN TRACK	UA 4588	SKIRTING
UA 1351	CURTAIN TRACK	UA 4592	PLANK
UA 1352	GLASS SILL	UA 4650	STAIR STRINGER
UA 1353	GLASS TRACK Top	UA 4651	STAIR TREAD
UA 1354	GLASS TRACK Base	UA 4980	P-SECTION
UA 1356	GLASS JOINTER	UA 5402	DROP SIDE HINGE
UA 1359	PICTURE FRAME	UA 6341	OFFSET TEE
UA 1363	CUPBOARD PULL	UA 6861	MIRROR MOUNT BASE
UA 1369	HINGE	UA 6862	MIRROR MOUNT TOP
UA 1370	HINGE	UA 7070	BULB TEE
UA 1390	STAKE ANGLE	UA 7071	BULB TEE
UA 1391	SHOWER FRAME	UA 7237	RULER
UA 1392	SHOWER FRAME	UA 7713	DIN RAIL
UA 1492	SCALLOP MOULD		
UA 1643	DRAWER PULL		
UA 1663	F - SECTION		
UA 1678	SHELF BRACKET		
UA 1679	SHELF BRACKET		
UA 1941	SKIRTING		
UA 1950	DRAWER PULL		
UA 1951	COLONIAL BEAD		
UA 1952	COLONIAL BEAD		
UA 2000	PICTURE FRAME		
UA 2039	PICTURE FRAME		
UA 2086	FLASHING		
UA 2154	DOOR TRACK		
UA 2221	DOOR TRACK		
UA 2229	DOOR TRACK		
UA 2251	51mm FLUTED COLUMN		
UA 2462	TICKET HOLDER		
UA 2482	TICKET HOLDER		
UA 2483	TICKET HOLDER		
UA 2516	CUSTOMWOOD INSERT		
UA 2589	SHELF BRACKET Melteca		
UA 2852	SLATWALL INSERT		
UA 2899	PLANK - DECK EXTENSION		
UA 2906	DIN RAIL		
UA 3006	AWNING FRAME		
UA 3016	4mm SPLITTEE		
UA 3219	CAPPING		
UA 3266	HANGING FILE RAIL		
UA 3267	ROLLER BLIND BAR		

NOTE: RED INDICATES
= MILL RUN ONLY =
NON-STOCKED ITEM

MINIMUM ORDER
QUANTITY 200KG

CONTACT YOUR LOCAL
BRANCH TO ENQUIRE

DIAGRAMS ACTUAL SIZE UNLESS
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Edition 18 - 2021

UA 1341

SLIDING DOOR TRACK

kg/m 0.083 P 37

OAD 12 x 7

**UA 1341****UA 1342**

3mm SPLIT TEE

kg/m 1.035 P 226

OAD 57 x 32

**UA 1343****UA 3769****UA 1343**

SLIDING DOOR TEE

k/gm 0.173 P 66

OAD 20.3 x 13.5

**UA 2154****UA 2229****UA 1345****UA 1345**

DOOR TEE

kg/m 0.146 P 65

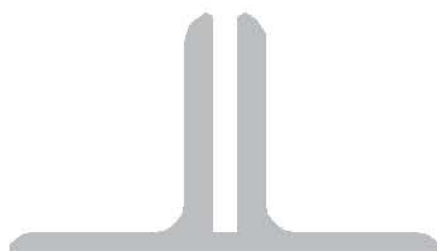
OAD 15.8 x 19

UA 2154

DOOR TRACK

kg/m 0.143 P 48

OAD 19 x 6

**UA 1342****UA 3016****UA 2229**

DOOR TRACK

kg/m 0.241 P 95

OAD 25 x 22.8

UA 3016 (MR)

4mm SPLIT TEE

k/gm 1.039 P 226

OAD 57 x 32

UA 3769 (MR)

SLIDING DOOR TEE

k/gm 0.364 P 80

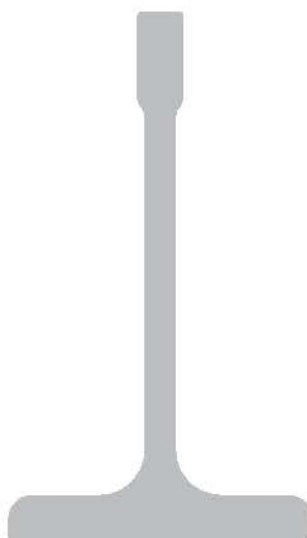
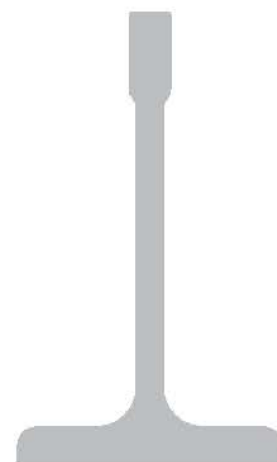
OAD 25.4 x 15.9

UA 6341 (MR)

OFFSET TEE

k/gm 2.429 P 311

OAD 100 x 56

**UA 7070****UA 7071****UA 7070 (MR)**

BULB TEE

k/gm 1.447 P 214

OAD 70 x 40

UA 7071 (MR)

BULB TEE

k/gm 1.086 P 185

OAD 60 x 35

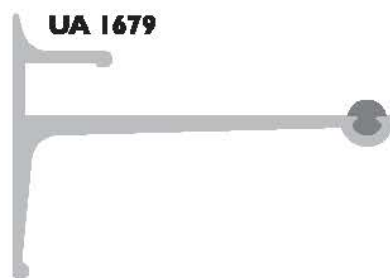
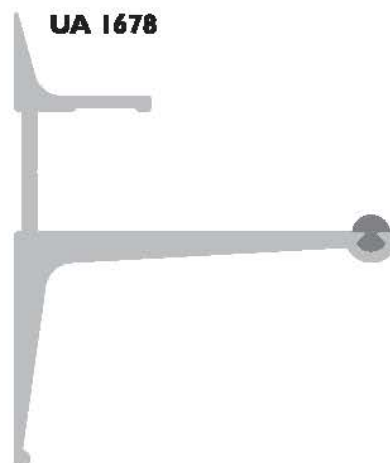
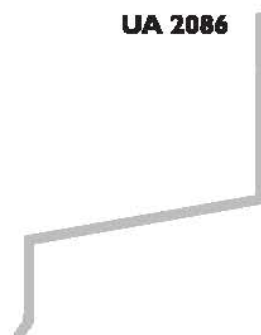
**UA 6341**

DIAGRAM'S ACTUAL SIZE UNLESS
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**UA 1679****UA 1663****UA 1678****UA 2589****UA 3266****UA 1340****UA 3465****UA 2086****UA 4980****UA 1340**

LT7 DOOR CAP
kg/m 0.508 P 254
OAD 65.5 x 43

UA 1663

7.9mm F SECTION
kg/m 0.302 P 100
OAD 23.8 x 15

UA 1678

16mm SHELF BRACKET
kg/m 0.859 P 251
OAD 60 X 50 Infill 4386

UA 1679

6mm SHELF BRACKET
kg/m 0.505 P 197
OAD 50 x 35 Infill 4386

UA 2086

FLASHING
kg/m 0.225 P 141
OAD 40 x 38

UA 2589

17mm SHELF BRACKET Melteca
kg/m 0.861 P 252
OAD 61 x 50 Infill 4386

UA 3266 (MR)

HANGING FILE RAIL
kg/m 0.389 P 188
OAD 32 x 30

UA 3465

TOE BOARD
kg/m 1.821 P 351
OAD 150 x 13

UA 4980 (MR)

P - SECTION
kg/m 0.793 P 228
OAD 76 x 38

INFILLS SOLD SEPARATELY

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Edition 18 - 2021

UA 1350

CURTAIN TRACK Top Fix
kg/m 0.082 P 54
OAD 14.5 x 5.8

UA 1351

CURTAIN TRACK Side Fix
kg/m 0.125 P 81
OAD 17 x 12

UA 1359

PICTURE FRAME
kg/m 0.281 P 143
OAD 22.02 x 22.95

UA 2000

PICTURE FRAME
kg/m 0.144 P 86
OAD 16.3 x 13.1

UA 2039

PICTURE FRAME
kg/m 0.164 P 103
OAD 20.5 x 12.5

UA 2221

DOOR TRACK
kg/m 0.378 P 178
OAD 30 x 25

UA 2906

DIN RAIL
kg/m 0.353 P 141
OAD 35.5 x 13

UA 3006

AWNING FRAME
kg/m 0.381 P 127
OAD 23 x 23

UA 3703

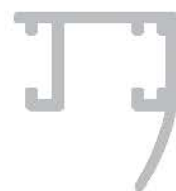
TRACK
kg/m 0.116 P 81
OAD 19.1 x 9.3

UA 4130 (MR)

GLASS CHANNEL
kg/m 0.165 P 105
OAD 18 x 18

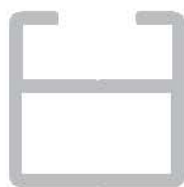
UA 6861

MIRROR MOUNT BASE
Takes stake 1379 (red)
kg/m 0.218 P 116
OAD 25 x 10.5

UA 2000**UA 2039****UA 1359**

**PICTURE FRAME
ASSEMBLY CORNER SETS**

Available
Code: PICCORNERSET

UA 3006**UA 1350****UA 1351**

PLASTIC CURTAIN GLIDES

Available for: UA 1350, UA 1351
Code: CURGLIDESW
CURENDSW



PVC INSERT STRIP

Fits: UA 3006
Code: 6INSM

UA 6861**UA 6862**

**MIRROR MOUNT
PLASTIC END CAPS**

Available
Code: W104

UA 2906**UA 7713****UA 4130****UA 3703****UA 2221****UA 6862**

MIRROR MOUNT TOP
kg/m 0.166 P 83
OAD 27.03 x 12.3

UA 7713 (MR)

DIN RAIL
kg/m 0.381 P 141
OAD 35.2 x 13.1



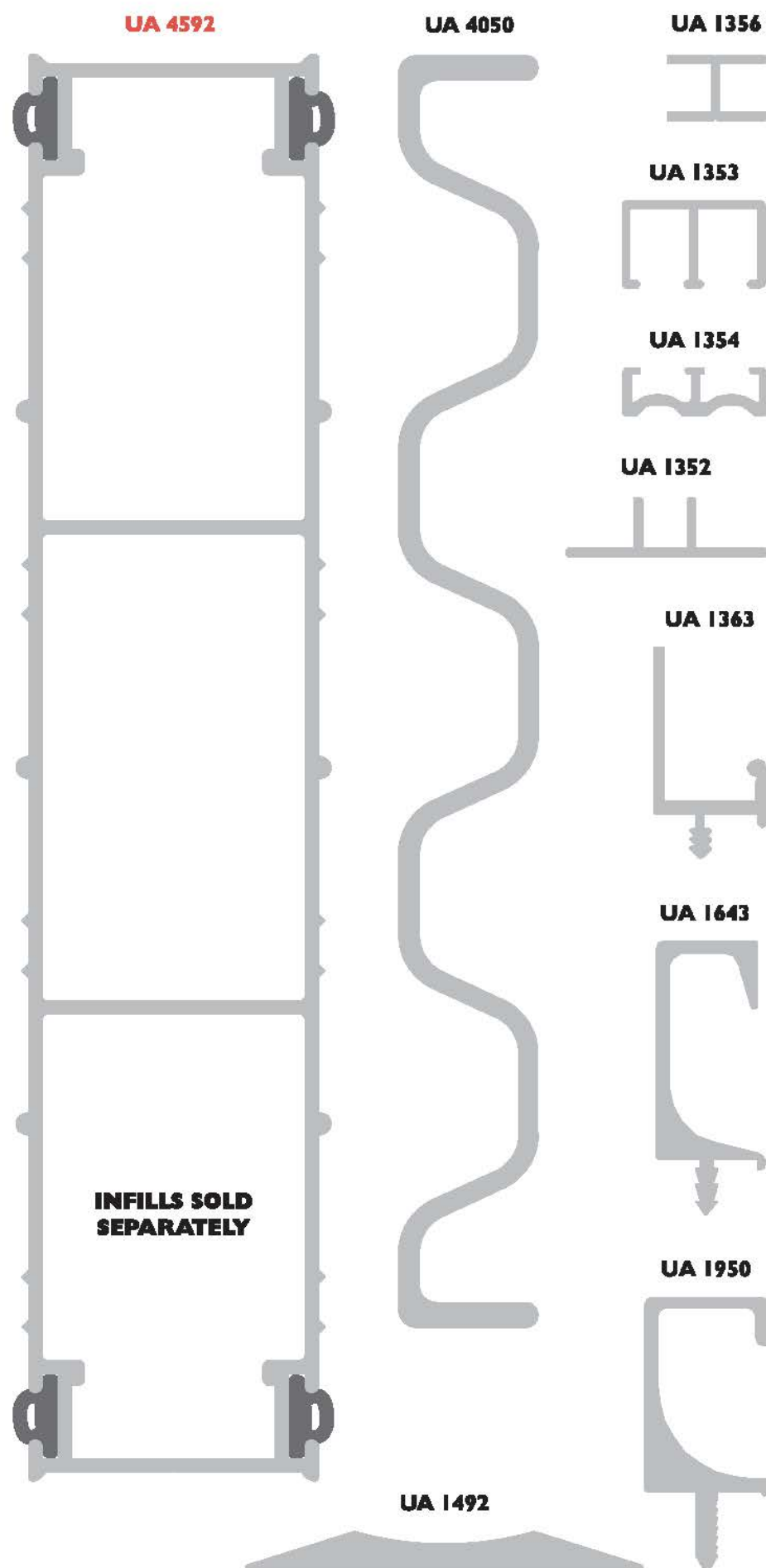
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UA 1352
6mm GLASS SILL
kg/m 0.182 P 99
OAD 32 x 9.5

UA 1353
6mm GLASS TRACK Top
kg/m 0.232 P 131
OAD 23 x 14

UA 1354
6mm GLASS TRACK Base
kg/m 0.179 P 99
OAD 23 x 8

UA 1356
6mm GLASS JOINTER
kg/m 0.159 P 82
OAD 16 x 10.5

UA 1363
16mm CUPBOARD PULL
kg/m 0.314 P 130
OAD 34 x 18

UA 1492
SCALLOP MOULD
kg/m 0.729 P 131
OAD 63.5 x 6.35

UA 1643
16mm DRAWER PULL
kg/m 0.546 P 164
OAD 44 x 17.4

UA 1950
19mm DRAWER PULL
kg/m 0.633 P 166
OAD 44 x 19.5

UA 4050
FISH BOARD
kg/m 2.687 P 600
OAD 203.2 x 22.3

UA 4592 (MR)
PLANK
kg/m 3.447 P 657
OAD 228 x 50 Infill 113

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MR = MILL RUN ONLY • NON-STOCKED ITEM • MINIMUM ORDER 200KG

NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

Edition 18 - 2021

UA 1369 (MR)

HINGE

kg/m 0.590 P 115

OAD 49.2 x 14.5

UA 1370

HINGE

kg/m 0.607 P 118

OAD 49.2 x 14.5

UA 1941

SKIRTING

kg/m 0.440 P 219

OAD 100 x 4.2 Infill 11

UA 2899 (MR)

PLANK - DECK EXTENSION

kg/m 2.039 P 419

OAD 122.8 x 50

UA 4587 (MR)

SKIRTING

kg/m 0.414 P 194

OAD 80 x 5.2 Infill 12

UA 4588 (MR)

SKIRTING

kg/m 0.630 P 294

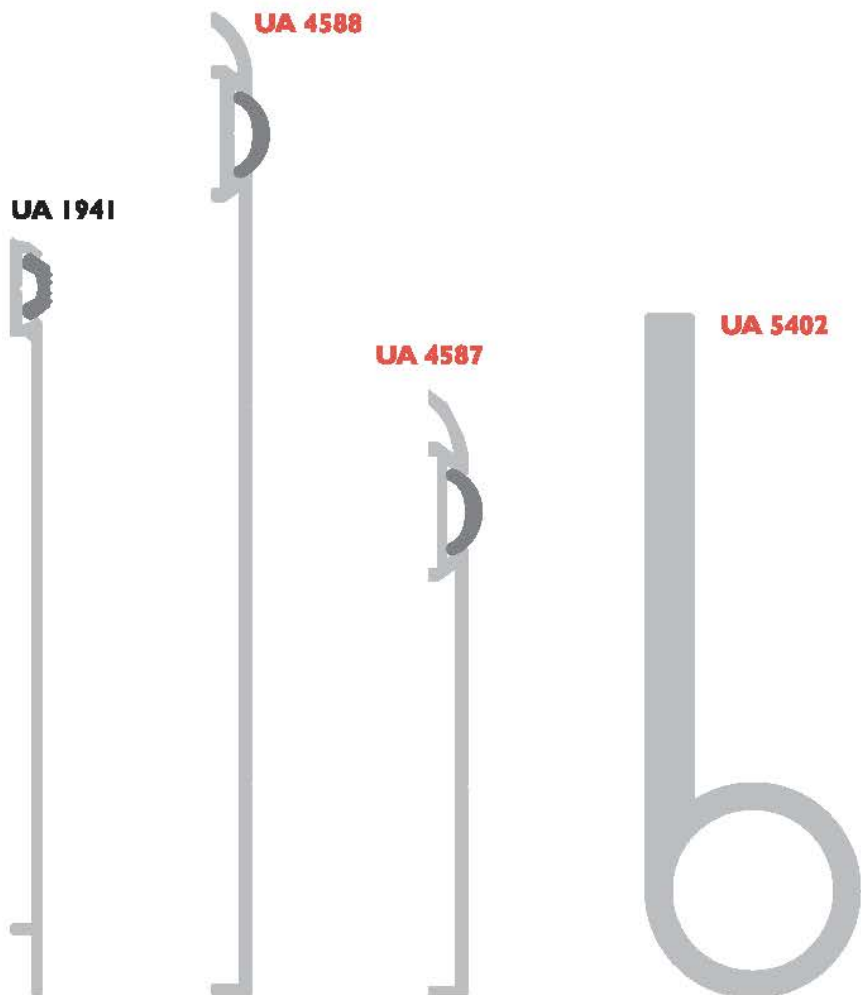
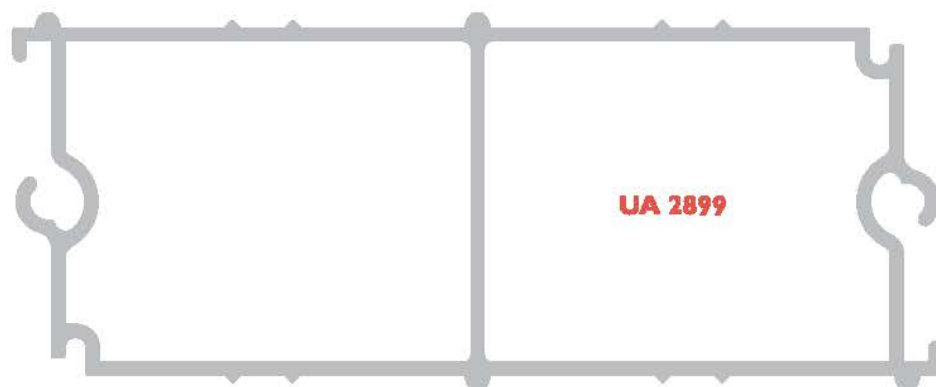
OAD 130 x 5.2 Infill 12

UA 5402 (MR)

DROP SIDE HINGE

kg/m 1.828 P 221

OAD 90 x 28

**UA 1369****UA 1370****UA 2899**

DIAGRAMS ACTUAL SIZE UNLESS
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INFILLS SOLD SEPARATELY

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UA 1347



UA 1348



UA 2483



UA 2482

**UA 1347**

19mm TICKET HOLDER
kg/m 0.069 P 53
OAD 21 x 3

UA 1348

29mm TICKET HOLDER
kg/m 0.113 P 76
OAD 32 x 3

UA 1390

STAKE ANGLE fits 1391
kg/m 1.317 P 223
OAD 35 x 35

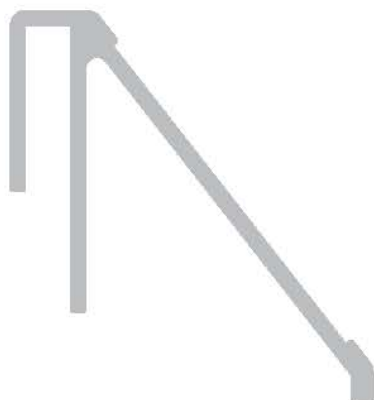
UA 1391

SHOWERSCREEN FRAME
kg/m 0.341 P 107
OAD 30.5 x 10.5

UA 1392

SHOWERSCREEN FRAME
kg/m 0.430 P 136
OAD 25.5 x 25.5

UA 2462

**UA 2251****UA 2251 (MR)**

51mm FLUTED COLUMN
kg/m 0.622 P 159
OAD 51 x 51

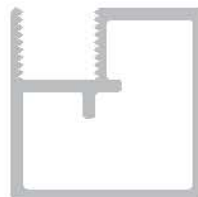
UA 1390



UA 1391



UA 1392

**UA 2462**

50mm TICKET HOLDER
kg/m 0.762 P 265
OAD 52 x 48

UA 2482

35mm TICKET HOLDER
kg/m 0.154 P 97
OAD 38.2 x 4.7

UA 2483

22mm TICKET HOLDER
kg/m 0.110 P 71
OAD 25 x 4.7

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UA 1951

COLONIAL BEAD
kg/m 0.174 P 84
OAD 19.2 x 10

UA 1952

COLONIAL BEAD
kg/m 0.121 P 58
OAD 19.2 x 3.8

UA 2516

CUSTOMWOOD INSERT
kg/m 0.165 P 104
OAD 23 x 12

UA 2852

SLATWALL INSERT
kg/m 0.224 P 140
OAD 32 x 12.5

UA 3219

CAPPING
kg/m 0.762 P 285
OAD 47 x 39

UA 3267 (MR)

BLINDS ROLLER
kg/m 0.564 P 156
OAD 40.7 x 40.35

UA 4382

CONCRETE SCREED
kg/m 1.234 P 236
OAD 70 x 50

UA 4473

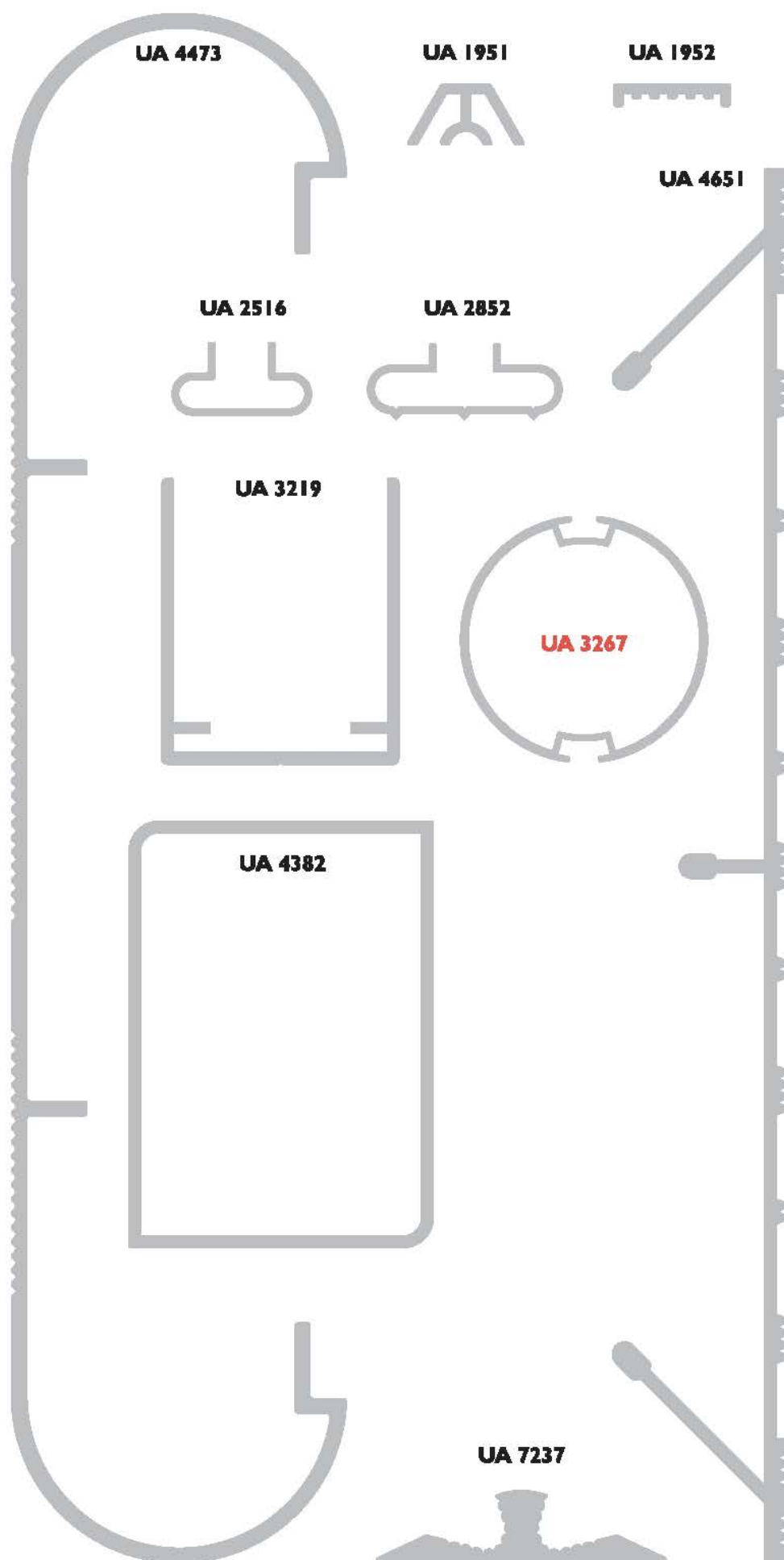
BENCH SEAT TOP
kg/m 2.787 P 870
OAD 254 x 55

UA 4651

STAIR TREAD
kg/m 2.128 P 747
OAD 230 x 29.04

UA 7237

RULER
kg/m 0.507 P 128
OAD 47.5 x 12.5



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DIE No	DESCRIPTION
UA 1310	DRAFT EXCLUDER
UA 1349	DRAFT EXCLUDER
UA 1438	THRESHOLD
UA 1521	DOOR SEAL TOP

**NOTE: RED INDICATES
= MILL RUN ONLY =
NON-STOCKED ITEM**

**MINIMUM ORDER
QUANTITY 200KG**

**CONTACT YOUR LOCAL
BRANCH TO ENQUIRE**

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Edition | 8 - 2021

UA 1310

DRAFT EXCLUDER

kg/m 0.145 P 75

OAD 18 x 13

UA 1349

DRAFT EXCLUDER

kg/m 0.123 P 72

OAD 22 x 7.5

UA 1438

THRESHOLD

kg/m 0.530 P 239

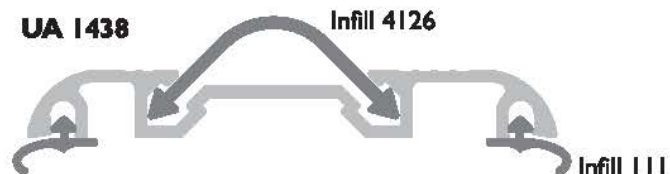
OAD 70 x 9 Infills 4126, 111

UA 1521

DOOR SEAL TOP

kg/m 0.197 P 81

OAD 30.5 x 19

UA 1310**UA 1349****UA 1521****UA 1438**

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DIE No	DESCRIPTION
UA 1641	FLANGED FRAME 25mm
UA 1642	FRAME 25mm

**NOTE: RED INDICATES
= MILL RUN ONLY =
NON-STOCKED ITEM**

**MINIMUM ORDER
QUANTITY 200KG**

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UA 1641

FLANGED FRAME 25mm
kg/m 0.343 P 114
OAD 31.9 x 25.4

UA 1642

FRAME 25mm
kg/m 0.313 P 102
OAD 25.4 x 25.4

Description

The Ullrich Modular Design System uses a tube-and-jointer construction for DIY shelving, storage, desking and display.

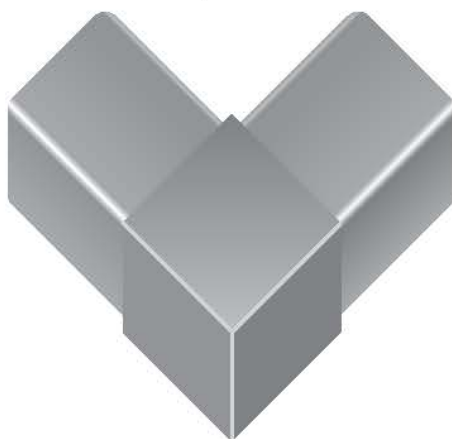
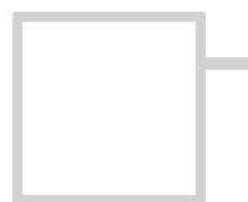
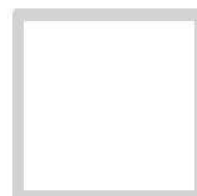
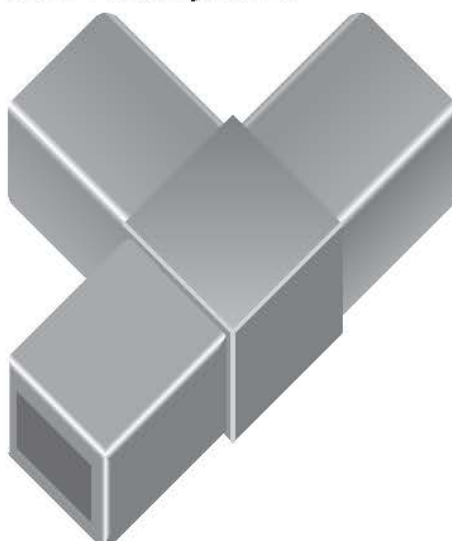
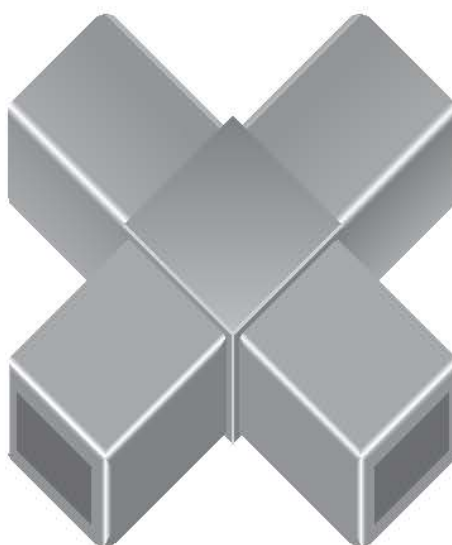
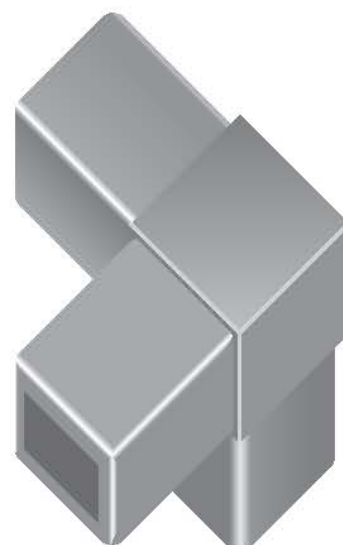
Using a rubber mallet, the system can be assembled in minutes, ready for shelving and panelling of your choice.

The finished units are sturdy yet lightweight, can be disassembled for storage or transit, and can be rearranged or extended for changing circumstances.

The 25mm profile can be powder-coated in your choice of colour.

Jointer components are available in black only.

See the Modular Design System brochure for more details.

2 WAY CORNER JOINTER**UA 1641****UA 1642****3 WAY T SHAPE JOINTER****4 WAY X SHAPE JOINTER****3 WAY Y SHAPE CORNER JOINTER**

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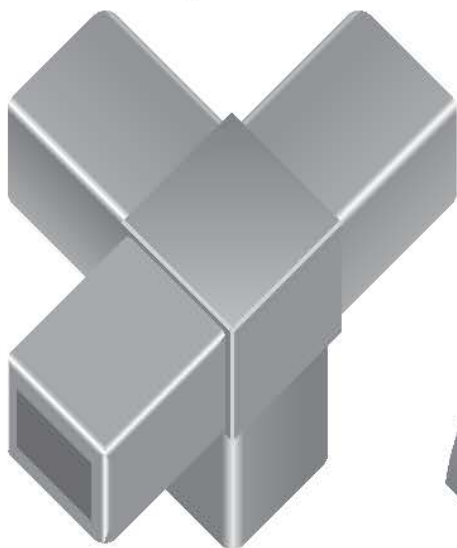
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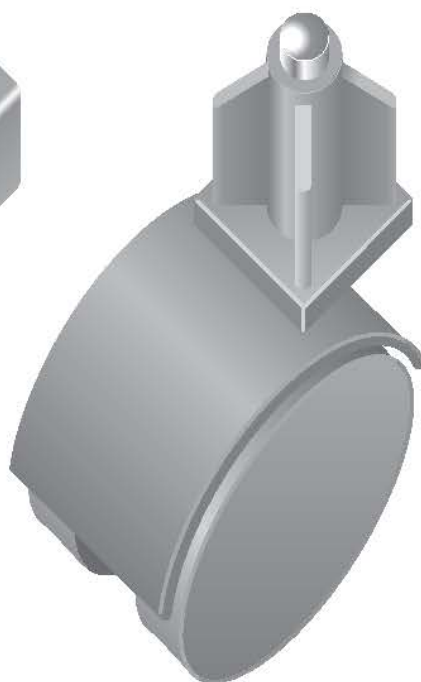
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4 WAY Y SHAPE JOINTER

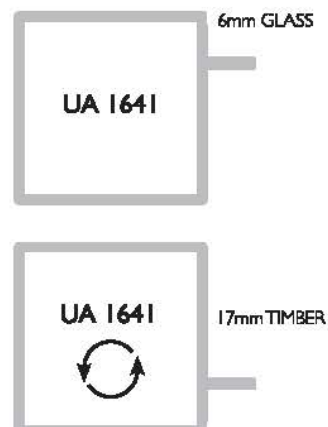


CASTOR

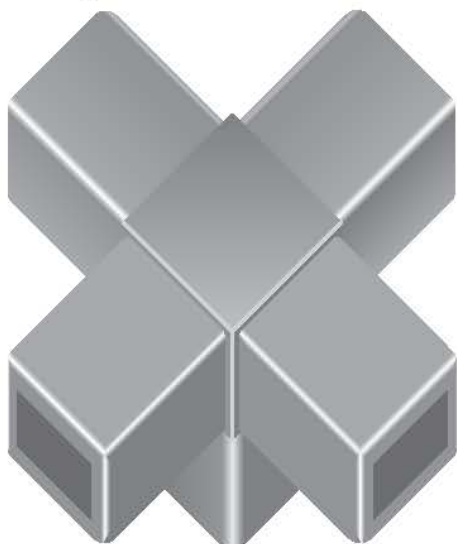


Panelling Options

25mm flanged tube is designed to accept 17mm timber or 6mm glass.



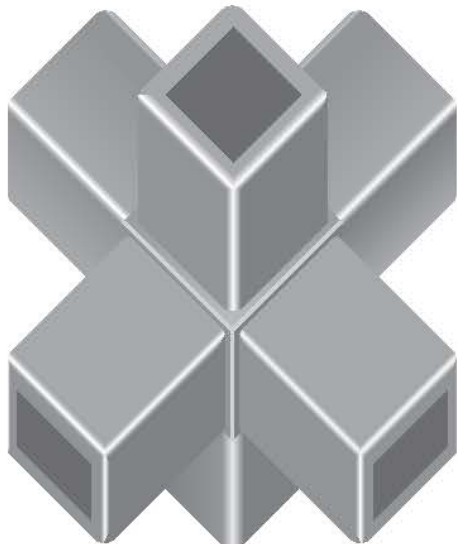
5 WAY JOINTER



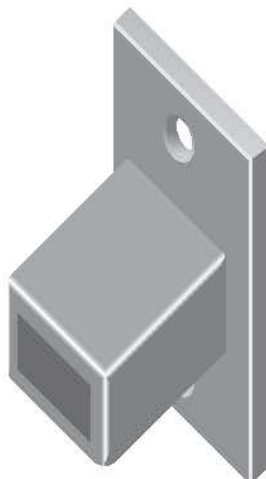
END CAP



6 WAY JOINTER



MOUNTING BRACKET



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Preliminary planning

To simplify planning and assembly, minimise the number of different tube lengths for your construction to as few as possible.

Only four standard tube lengths are needed as the basis for many different types of construction.

In assembly, these modules conform to accepted ergonomic work-height standards for desks and benches, and generally cater for typical dimensions of home appliances, computers, office files and books.

Here, jointed selections of shorter modules combine in many different ways to equal the lengths of jointed longer tube modules. This offers multi-strata design flexibility, vertically and horizontally, to customise storage or workspace for maximum efficiency and economy, while ensuring even finished widths and heights in the assembled unit no matter how varied the internal construction.

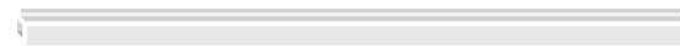
This facilitates customised construction, for example, various sized filing compartments above or below a wider desktop, or construction of shelves of various widths, depths and heights to suit different sizes of books, displays or audio-video appliances in a wall unit.

A multitude of designs from only four tube lengths as an example.

Supplied as 5 metre lengths only, not available as pre-cut pieces or cut to length.



How the tube modules work together for furniture that fits.



One 875mm module (with any two jointers) is equal to:



One 650mm module and one 200mm module (with any three jointers)



Two 425mm modules (with any three jointers)

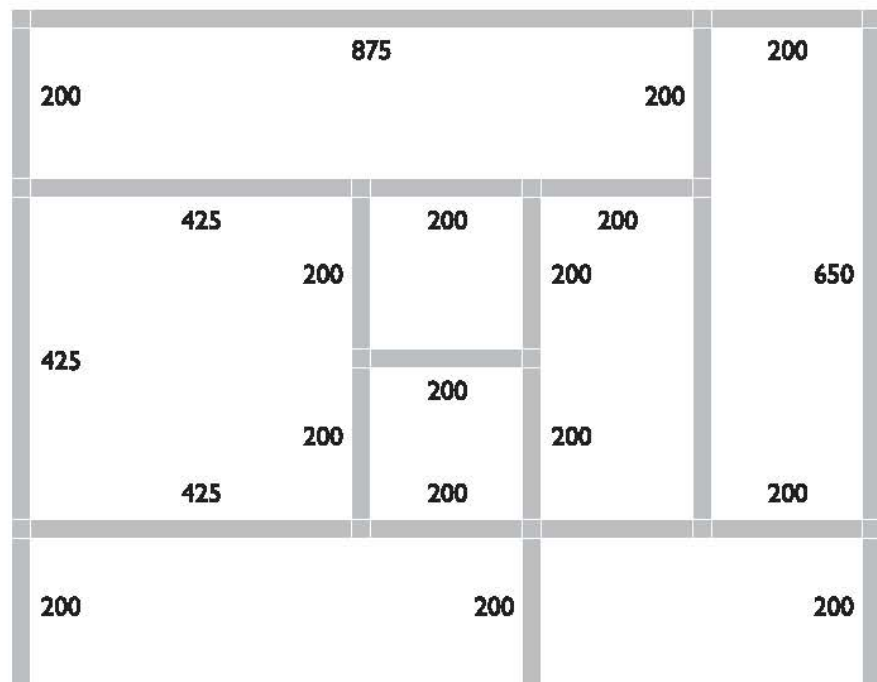


One 425mm module and two 200mm modules (with any four jointers)



Four 200mm modules (with any five jointers)

Modular construction offers flush-fitting furniture with multiple storage options.



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DIE No	DESCRIPTION
--------	-------------

STORM SHUTTER	
---------------	--

UA 1055	WEDGE PIN
UA 1056	TOP CHANNEL
UA 1057	BOTTOM CHANNEL

ACCORDION STORM SHUTTER	
-------------------------	--

UA 2916	STRIKE
UA 2917	LOCK
UA 2918	GUIDE
UA 2919	CHANNEL
UA 2920	WHEEL GUIDE
UA 2921	SHUTTER SLAT
UA 2922	SHUTTER END

**NOTE: RED INDICATES
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**MINIMUM ORDER
QUANTITY 200KG**

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UA 1055

WEDGE PIN

kg/m 3.410 P 221

OAD 95 x 22

UA 1056

TOP CHANNEL

kg/m 0.811 P 315

OAD 70 x 49

UA 1057

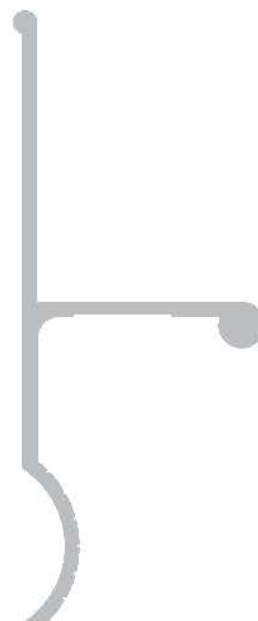
BOTTOM CHANNEL

kg/m 0.626 P 244

OAD 81 x 32

ASSEMBLY DETAILS

Refer: 26-3

UA 1055**UA 1056****UA 1057**

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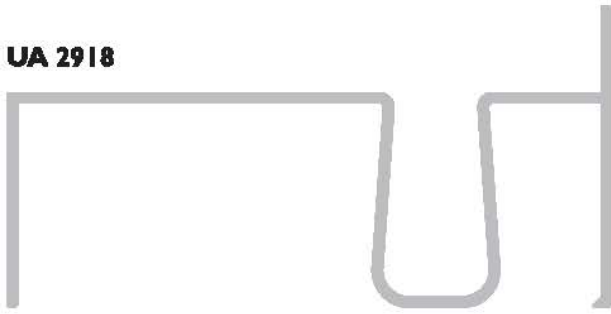
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UA 2918



UA 2916

STRIKE

kg/m 0.899 P 423

OAD 89.72 x 53.65

UA 2919



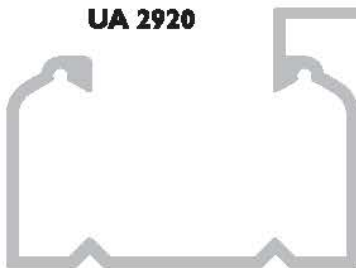
UA 2917

LOCK

kg/m 1.040 P 489

OAD 114.33 x 55.4

UA 2920



UA 2918

GUIDE

kg/m 0.806 P 400

OAD 80 x 40

UA 2922



UA 2919

CHANNEL

kg/m 0.606 P 302

OAD 83.3 x 41.5

UA 2921



UA 2920

WHEEL GUIDE

kg/m 0.752 P 360

OAD 80 x 34.5

UA 2921

SHUTTER SLAT

kg/m 0.512 P 255

OAD 104.37 x 12.37

UA 2922

SHUTTER END

kg/m 0.441 P 214

OAD 69.29 x 29.49

UA 2916

UA 2917

ASSEMBLY DETAILS

Refer: 26-3

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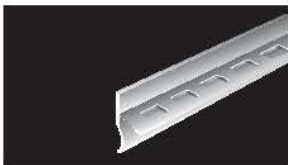
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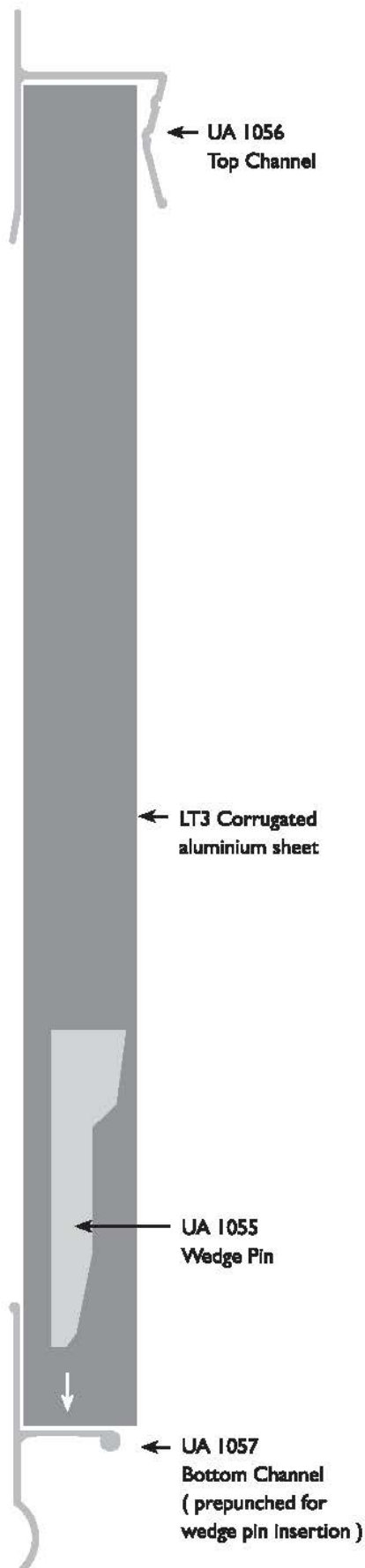
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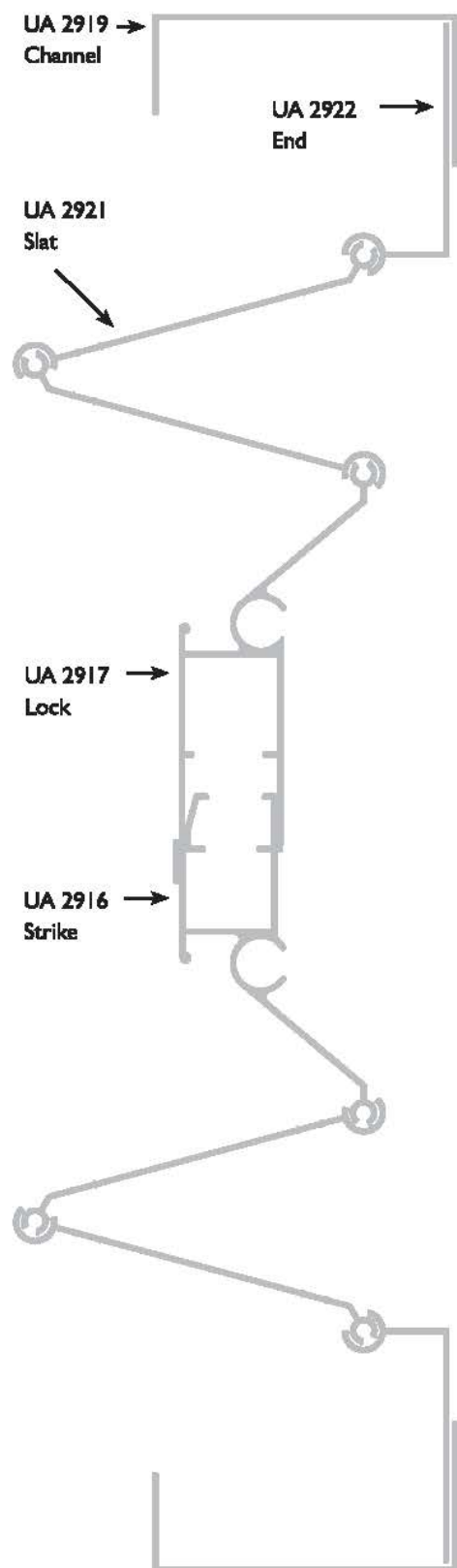


Above from top
Storm Shutter
UA 1057 prepunching detail
Accordion Storm Shutter

**STORM SHUTTER
ASSEMBLY:** side view, scale 1:2



**ACCORDION STORM SHUTTER
ASSEMBLY:** plan view, scale 1:2



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DIE No	DESCRIPTION
UA 2247	PALLET DECK
UA 2435	PALLET BEARER
UA 2436	PALLET DECK

**NOTE: RED INDICATES
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**MINIMUM ORDER
QUANTITY 200KG**

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UA 2247 (MR)

PALLET DECK (Cargon)
 kg/m 2.844 P 704
 OAD 200 x 25

UA 2435

PALLET BEARER
 kg/m 2.918 P 435
 OAD 150 x 60

UA 2436

PALLET DECK
 kg/m 1.348 P 214
 OAD 85 x 25

UA 2435**UA 2247****UA 2436**

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EXTRUSION TERMINOLOGY
PROPERTIES OF ALUMINIUM
COMPARATIVE CHARACTERISTICS AND APPLICATIONS
TOLERANCES AND MECHANICAL PROPERTY LIMITS
THE STORY OF ALUMINIUM
CONVERSION TO COMPLETION
HANDLING AND STORAGE
TREATMENTS AND SURFACE FINISHES
CLEANING ALUMINIUM SURFACES
THE EXTRUSION PROCESS
LINEAR CONVERSION TABLES

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Standard shape	Extrusions that are available to all customers.
Exclusive shape	Extrusions manufactured to client design and produced for their exclusive use. These are not published in this catalogue.
Standard	Alloys, tempers, dimensions and services always available and acceptable for production without further reference.
Non-standard	Alloys, tempers, dimensions and services which are outside normal availability and always the subject of special inquiry.
Section drawings	Profile outline drawings prepared for every extruded shape. Each one is identified by a die number (eg: UA 1234).
Visible face	In a finished construction, the visible surface of any extrusion.
External periphery	The measurement used in computing the price for surface finishes on hollow shapes in which the external perimeter only is measured, and the internal void excluded.
Total periphery	The total distance around the extruded shape, including internal void surfaces.
Factor	Result of dividing total perimeter (internal and external for hollow shapes) of the section in mm by weight in kg/m.
Circumscribing circle	Minimum circle inside which extruded shapes fit precisely.
Thickness ratio	Optimum desirable ratio of variation of metal thickness in any extruded shape.
Rod	Solid round section 10 mm or greater in diameter whose length is greater in relation to its diameter.
Bar	Solid section, long in relation to its cross-sectional dimensions, with a symmetrical square, rectangular, hexagonal or octagonal cross-section (excluding flattened wire) with sharp or rounded corners or edges and whose width or greatest distance between parallel faces is 10 mm or greater.
Solid shape	Extruded shape whose geometry does not form a void and which is long in relation to its cross-sectional dimensions.
Hollow shape	Single enclosed void with width-to-depth ratio not less than 5:1. Wall thickness uniform except for radiused corners.
Semi-hollow shape	Solid shape with a cross-section that partially encloses a void, in which the area of the void is substantially greater than the square of the width of the gap, otherwise classified hollow as follows:

Gap dimensions (mm)		Ratio area-to-gap over which shape is classified hollow
Over	Up to	
6.0		4.0
3.0	6.0	3.0
1.5	3.0	2.5
1.5	2.0	

Hollow and semi-hollow manufacturing methods offer no undertaking for placement or homogenous nature of weldlines unless agreed prior to placement of order.



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1. Weight

The specific gravity of aluminium is 2.7, about one-third that of iron (7.9) and copper (8.9). The weight to strength ratio of aluminium makes it an ideal construction material for the transport industry – air, sea, road and rail – where its light weight contributes to energy saving, increased load capacity and speed. Aluminium is also used in large-scale construction of high-rise buildings, power transmission cables and towers.

2. Corrosion resistance

When aluminium is exposed to air, a thin oxidised film forms on the surface, which helps to protect the metal from further corrosion. Anodising treatment enhances corrosion resistance, and is used in building construction, joinery, household appliances and utensils.

3. Machinability

Aluminium can be easily fabricated into cast or forged shapes, foil, sheet, rod, tube and wire. It also displays excellent machinability and plasticity in bending, cutting and drawing. Aluminium is considered to be the best material for complex-sectioned hollow extrusion.

4. Strength

The tensile strength of pure aluminium is not high, but depending upon the alloy or temper, a strength of up to 60 kg/mm² can be achieved. You can choose the alloy with the most suitable strength characteristics you need according to your application. Some alloys are stronger than ordinary steel or even equal to special (alloy and treated) steels in tensile strength. While steel becomes brittle at low temperatures, aluminium increases in tensile strength. Because of its low modulus of elasticity, aluminium absorbs impact, and is used in potentially high-impact applications such as automobile bumpers.

5. Expansion

Aluminium extrusions have a comparatively high coefficient of expansion which is 0.000023mm per mm length of extrusion per °C. A length of aluminium extrusion 6m long will expand over 4mm when the temperature rises 30° C. When designing, especially building design, provision should be made for expansion and contraction caused by temperature changes. Thermal expansion is particularly important where aluminium extrusions are used with other materials having different expansion rates.

6. Surface enhancement

Aluminium can be thermoset powdercoated or electrochemically anodised surface-treated for enhanced protection and appearance. A wide range of colours are available. Aluminium is thus widely used for interior and exterior cladding of buildings and vehicles, and the fabrication of household and commercial appliances.

7. Electrical conduction

The electrical conductivity of aluminium is approximately 60% of copper yet about one-third the weight. Aluminium is a very economical material as an electrical conductor and is widely used in power-transmission cables, bases of electric bulbs and other electrical applications.

8. Heat conduction

Aluminium is about three times as thermo-conductive as steel. It is used for cooking utensils, air-conditioners, industrial heat exchangers, automobile engine parts and solar energy collectors.

9. Magnetic sensitivity

Aluminium is non-magnetic and is used where the use of magnetic metals would be detrimental to equipment performance, such as in the construction of compasses, parabolic antennae, computer disks and other magnetically driven applications.

10. Reflectivity

The surface of uncoated aluminium is highly reflective of light, radiant heat and electronic waves – the purer the metal, the more so. This feature is utilised in mirrors and reflectors for stoves, infrared dryers, lighting equipment, light-wave-guides and in building temperature control.

11. Recyclability

Owing to its low melting temperature, aluminium is economically recyclable, requiring only about 3.5% of the energy required for smelting. Use of recycled aluminium has benefits for all concerned with conservation of energy and natural resources.

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Alloy	Characteristics	Available Forms	Applications
1350	Commercially pure, very ductile in extruded condition. Excellent resistance to corrosion. Excellent electrical conductivity	Simple shapes	Mouldings, lightly stressed and decorative assemblies in architecture and transport, chemical, food and brewing equipment, heat exchangers
6060	Suitable for intricate sections of light and medium strength. Forms well in T4 temper. High corrosion resistance, good surface finish, anodises well	All shapes, tubing and rod	Architectural extrusions such as glazing bars, window frames and general purpose extrusions
6106	Light structural alloy. Designed to provide optimum mechanical properties, complexity of shape, minimum section thickness and good surface finish. Good corrosion resistance, weldability and formability	Thinner structural shapes, rod, bar and tubing	Light structural applications, where surface finish is important. Marine, Transport applications
6005A	Medium structural alloy. Good extrusion characteristics with good surface finish.	Structural shapes of all types, rod, bar and tube, offered in T5 temper	Medium structural applications, where surface finish is important. Marine, Transport applications
6261	Special purpose structural alloy. Good surface finish and corrosion resistance. Good formability in T4 temper. Good weldability.	Structural shapes of all types, rod, bar and tube, offered in T6 temper	Structural applications where surface finish is important. Marine, Transport applications
6082	Recommended alloy for structural purposes. Good strength and general corrosion resistance. Good weldability.	Structural shapes of all types, rod, bar and tube, offered in T6 temper	Vehicles, bridges, roof trusses and general structural applications
2011	Free machining alloy of medium strength, giving fragmented chips. Not suitable for anodising or welding.	Rod	Automatic lathe products, suitable for high speed repetitive machining

Description of Tempers

F	Extrusions as fabricated
O	Extrusions annealed
T1	Cooled from elevated temperature then naturally aged
T4	Solution heat treated then naturally aged
T5	Cooled from elevated temperature then artificially aged
T6	Solution heat treated then artificially aged



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EXTRUSION TOLERANCES

Applicable manufacturing tolerances are those set out by the Aluminium Development Council of Australia Ltd (ADCA) in *Aluminium Standards, Data and Design: Wrought Products* (First Edition 1994). Invariably, tolerances for an individual geometric shape are subject to negotiation and agreement between extruder and customer. Under this provision, the function of the shape in its specific application is given priority consideration. All manufacturing tolerances are subject to review from time to time.

Dimension tolerances (rounded down¹)

Cross-sectional Metal dimension ² mm	ADCA Tolerance mm
---	-------------------------

Up to 3	0.15
3 to 6	0.18
6 to 12	0.20
12 to 20	0.23
20 to 25	0.25
25 to 40	0.31
40 to 50	0.36
50 to 100	0.61
100 to 150	0.86
150 to 200	1.12
200 to 250	1.37

1. Dimensional tolerances are rounded down to the nearest 0.05mm because all callipers used to measure metal dimensions are almost universally graduated at intervals of 0.05mm

2. Metal dimensions refer to solid metal dimensions or any measurement unbroken by a gap or void. For tolerances across gaps or voids refer to ADCA Standards.

MECHANICAL PROPERTY LIMITS - EXTRUDED PRODUCTS

Alloy - Temper	Thickness ¹ (mm)		Tensile Strength (MPa)		Elongation ^{2,3} % min in 50mm or 5.65√A
	Over	Up to	Ultimate minimum	Yield minimum	
1350 - H112		All	60		23
6060 - T5		12.0	150	110	8
	12.0	25.0	145	105	6
6106 - T6		10.0	235	210	8
	10.0	25.0	205	170	8
	25.0	150.0	185	160	10
6005A - T5		All	260	240	8
6261 - T6		All	295	255	7
6082 - T6		20.0	295	255	7
	20.0	150.0	310	270	7

1. The thickness of the cross-section or wall thickness from which the tension specimen is taken determines the applicable mechanical properties.

2. For material of such dimensions that a standard test specimen cannot be taken, or for material thinner than 1.6mm the test for elongation is not required.

3. A = specimen cross-sectional area.

4. These yield strengths are not determined nor guaranteed unless specifically requested.

Source: *Aluminium Standards, Data and Design: Wrought Products* (ADCA First Edition 1994)

USEFUL FORMULAE

Nominal mass (kg/m²) of Extruded Aluminium:

Calculate cross-section area (mm²) and multiply by 0.00271

Factor

(Difficulty of Extrusion Factor)

Calculate the perimeter of the section (for hollow sections, both outside and inside perimeters) and divide the result by the nominal mass (kg/m) of the section.

Weight of Billet

Billet, 178mm diameter

1mm = 0.0666 Kg

Billet, 202mm diameter

1mm = 0.0875 Kg

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DISCOVERY AND DEVELOPMENT

The art of pottery making was developed in northern Iraq about 5300 BC. The clay used for making the best pottery consisted largely of a hydrated silicate of aluminium. Certain other aluminium compounds known as *alums* were widely used by the Egyptians and Babylonians as early as 2000 BC in vegetable dyes, various chemical processes and for medicinal purposes. It was generally known as *metal of clay* and for thousands of years could not be separated by any known method from its link with other elements. As relatively late as 1782 the French chemist, Lavoisier, said it was the oxide of an unknown metal.

Aluminium, as we understand it, was isolated early in the 19th century, and is in historical terms a relatively recently discovered metal. Lavoisier's opinion was repeated by Sir Humphrey Davy in 1808. He gave it the more scientific sounding name *aluminium* (pron: aloo-minum). His spelling is still used in North America but elsewhere in the world the spelling *aluminum*, following the suggestion of Henri Sainte-Clair Deville, is used. In 1809 Davy fused iron in contact with alumina in an electric arc to produce an iron-aluminium alloy. For a split second, before it joined with the iron, aluminium existed in its free metallic state for perhaps the first time since our planet was formed. In 1825 H C Oerstedt, a Dane, produced a tiny sample of aluminium in the laboratory by chemical means.

Twenty years later the German scientist, Frederick Wohler, produced aluminium lumps as big as pinheads. In 1854 Sainte-Clair Deville had made improvements to Wohler's method and produced aluminium globules the size of marbles. He was encouraged by Napoleon III to produce aluminium commercially and at the Paris exhibition in 1855 aluminium bars were exhibited next to the crown jewels. It was not until 31 years later however, that an economical way of commercial production was discovered.

On 23 February 1886, a 22-year-old American, Charles Martin Hall worked out the basic electrolytic process still in use today. Hall had begun his experiments while still a student at Oberlin College, Ohio. He achieved his success, after graduation, with home-made apparatus in the family woodshed. He separated aluminium from the oxygen with which it is chemically combined in nature by passing an electric current through a solution of cryolite and alumina.

Almost simultaneously, Paul LT Heroult arrived at the same process in France, although he did not initially recognise its importance in his work in development of aluminium as an alloy-only material. In 1888 the German chemist Karl Joseph Bayer was issued a German patent for an improved process for making Bayer aluminium oxide (alumina). The foundation of the aluminium age was complete. The Bayer, Hall and Heroult processes freed our planet's most plentiful and versatile structural element for widespread use.

ORIGINS

Aluminium is a metallic element that comes from the ore *bauxite*. Aluminium is one of about 100 basic elements out of which the physical universe is built. In other words, it was created billions of years ago when the whirling clouds of hydrogen under constant pressure with electro-magnetic forces collided to form new elements. When Earth's mass cooled, aluminium mixed with water and oxygen to form the original matter from which bauxite is made. Bauxite is named after Les Baux, France, where it was discovered in 1821.

Converted to aluminium by modern processes, it becomes a light metal which can be given great strength by alloying with other metals. It is inherently corrosion-resistant, conducts heat and electricity, yet can be processed to reflect light and radiant energy. Aluminium is classified non-toxic. It is non-magnetic. It can be formed by all known metalworking processes. Its intrinsic properties make it able to be used in many circumstances where other materials would not be considered.



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HOW ALUMINIUM IS MADE

Bauxite is mined by various processes. Once mined it is finely crushed for refining and recovery of *alumina*, the base from which aluminium is made. The separation of the alumina from bauxite is a complicated process. This involves the use of a caustic soda solution heated under pressure to dissolve the alumina. Impurities are filtered out of the solution in the form of a mud-like material. The filtered solution is cooled and alumina is recovered by precipitation in a hydrate form. The resulting fine crystals are heated in long, revolving kilns to drive off the water of crystallisation.

The product is alumina in a white powder form. Aluminium metal is produced in large steel shells lined with carbon. These shells are known in the industry as *pots* and are arranged in long rows called *pot lines*. Alumina is mixed with cryolite in the pots and large quantities of electricity are introduced to reduce the alumina into aluminium and oxygen. The process is continuous and molten metal is siphoned from the pots at regular intervals.

HOW ALUMINIUM IS TURNED INTO PRODUCTS

Once aluminium is produced it can be made into forms ready for manufacturers to convert into finished products. Industries requiring aluminium may specify from a range of alloys and their metal can be supplied in the form of ingots, extruded shapes, rod, tube, bar, sheet, plate and foil.

One of the best known forms of aluminium is sheet, which has many applications. The process starts with special alloy ingots. These are pre-heated to rolling temperature, then fed into a hot mill with the ingot being passed back and forth through the mill. The process results in plate, with thinner sheet being formed by further passes between rolls under extreme pressure. It becomes longer and thinner in the direction in which the plate or sheet is moving.

Perhaps the most remarkable of all sheet forms is foil, which is aluminium metal that has been rolled very thin so that it is pliable yet strong. Aluminium foil is widely used in kitchens and food packaging.

Aluminium extrusions have been used commercially for many years. The process involves a heated billet being pushed under extreme pressure through a die, the metal taking the shape of the holes in the die. Extrusions are mostly used to reduce the weight or number of parts in an assembly, or to achieve shapes that cannot be produced satisfactorily any other way.

THE USES OF ALUMINIUM

The characteristics of aluminium combine to make aluminium a most versatile material for a host of applications.

Window frames	Kitchen utensils	Vehicle engines	Tanks and piping
Door frames	Kitchen whiteware	Aircraft engines	Tubing and ducting
Joinery fittings	Laundry whiteware	Outboard motors	Reflector panelling
Roofing	Air conditioners	Motor mowers	Armature windings
Gutters	Tubular furniture	Airframes and skins	Wiring and cabling
Spouting	Electrical fittings	Vehicle trim	Treadplate
Wall cladding	Light fittings	Truck canopies	Wall framing
Foil insulation	Household appliances	Coach bodies	Office furniture
Roller doors	Food containers	Railcar bodies	Office equipment
Insect screens	Wrapping foil	Caravan bodies	Decorative ceilings
Venetian blinds	Cans and closures	Boat hulls and trim	High-rise mullions
Awnings, louvres	Computer parts	Transport containers	Sign frames, panels
Fencing	Sports equipment	TV receiver aerials	Partition systems
Balustrading	Leisure furniture	Flag Poles	Security grills

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Aluminium is one of the easiest materials to keep in good condition. It has a high natural resistance to corrosive conditions normally encountered during shipment and storage, and a little care will maintain its original appearance for a long time. Generally, guard against conditions that may cause surface abrasion or water stains. Suppliers make every effort to pack aluminium so that traffic marks or rub marks do not occur during shipment and so that it remains dry. All incoming shipments should be inspected promptly however, since suppliers generally have a time limit in which damage claims will be honoured.

TRAFFIC MARKS

Appearance: Scratches, surface abrasions, or a condition resembling cinders embedded in the metal. They result from mechanical abrasion and subsequent oxidation of the abraded areas, which is unsightly and has a detrimental effect on finishing operations.

Prevention and treatment: Suppliers usually pack metal so that it is not subjected to undue flexing or twisting and so that the units within a package do not rub against each other. Products subject to such damage are usually packed on skids or in timber boxes. Paper or cardboard may be used for cushioning thin or soft metal. Steel strapping is used to reinforce skids and boxes and to bind wrapped bundles. In storage, do not place aluminium with other metals. Use wood-faced shelving, racks and bins. Store away from caustics, nitrates, phosphates and acids. Use older stock first.

WATER STAINS

Appearance: Non-metallic, usually whitish, perhaps iridescent depending upon the alloy or degree of oxidation. Caused by the entrapment of moisture between adjacent surfaces of closely-packed material. Purer aluminium alloys are more resistant to water stain, usually more pronounced on alloys with high magnesium content. It is a superficial condition and the mechanical properties of the metal are not affected.

Prevention and treatment: If a shipment of metal arrives in wet condition, dry thoroughly before storing – evaporate moisture in air or dry air currents. When the moisture is removed shortly after the metal becomes wet, no stain will result. If stain has occurred, and the moisture causing it is not removed, the stain will develop further. Once dry, store the metal away from such obvious water sources as steam and water pipes, and reasonably away from open doors and windows.

Condensation is perhaps the most troublesome cause of water stains. In severe cases, it may also cause surface deterioration which may only become apparent when the metal is later etched and anodised. Prevent it by avoiding conditions where airborne moisture increases enough to carry the dew point above the metal temperature. Ensure that a sudden fall in temperature or increase in humidity does not occur in storage areas. Aluminium packed in original boxes should never be left in the open, because greater variations in outdoor temperature and humidity increase the possibility of condensation. Even if the package is wrapped in water-resistant paper, the impossibility of obtaining a perfect seal makes outdoor storage highly undesirable. So-called waterproof packages are designed solely for the protection of the metal during shipment and are not meant to withstand extended exposure to the weather.

Try to store cold metal in a dry storage area until its temperature has increased substantially before bringing it into a heated area with higher humidity. Place new shipments in temporary storage where their temperature is raised slowly to that of the permanent storage room.

Where water stains have occurred, the degree of staining may be judged fairly accurately by the relative roughness of the stained area. If the surface is fairly smooth overall, the stain is superficial, and its appearance can be improved by mechanical or chemical treatments. Scratch-brushing or the use of steel wool and oil is effective in removing water stain. If a chemical dip without undue etching is preferred, an aqueous solution containing 10% by volume of sulphuric acid and 3% by weight of chromic acid at about 10°C may be used.



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ANODISING

The capacity of aluminium to respond to anodising, the most familiar of finishes, makes aluminium a most important metal in a fundamental way. The fact that aluminium can accept this attractive, durable and tough-wearing finish makes it possible to exploit its strength and lightness in a large number of applications, particularly in building construction.

Anodising is essentially an induced thickening of the natural protective oxide film on the metal's surface. It converts the surface of the parent metal, not a 'coating' in the usual sense. Unless severely deformed or stressed by excessive thermal movement, the anodic film will not chip, peel or crack. With conventional sulphuric acid anodising, anodised alloys produce a clear, hard and extremely corrosion-resistant film capable of being coloured. The functional and decorative potential this offers is widely used in applications ranging from building components to domestic cookware. Varying the conventional electrolyte composition, combined with process variables, produces anodic finishes with distinctive functional properties. Thus, very hard anodic films are developed for abrasion-resistant surfaces on gears, pistons, bearings and similar components.

Anodic films can be coloured in many ways. Conventional sulphuric acid films are microscopically porous and organic or inorganic dyes and pigments may be sealed in the film. Very durable coloured films used for exposed environments are usually produced integrally and permanently with the evolution of the anodic layer. Whether anodising is clear or coloured, it is important that designers understand its essential nature. Inevitably, the anodic film reproduces the physical nature of the original metal surface. This means that any mechanical finish applied previously to the surface will be evident, and the characteristics of different metal forms will persist. Thus, extruded and sheet metal, if colour-anodised to the same specification and placed together, will show an apparent colour difference due solely to minor but characteristic differences in surface profile peculiar to their individual mill processes.

The basic anodising process consists of a suitable chemical pre-cleaning dip, followed by etching in a caustic soda base solution, anodising electrolytically in sulphuric acid or other solution and finally sealing to reduce porosity. The finished anodised surface is in fact an inert, and therefore protective, film of aluminium oxide. The thickness of the aluminium-oxide anodising is varied by processing time to suit its application. The following guide quotes minimum figures, film thickness being checked on a batch basis by electronic means.

12 micron:	Common Standard for internal and outdoor applications where cleaning is frequently required.
15 micron:	General architectural requirement.
25 micron:	Heavy duty external architectural or marine applications where little deterioration can be tolerated.

Colour finishes are checked for accuracy against standards, and tested for leaching by immersion in a boiling 0.1% borax solution.

THERMOSET POWDERCOATING

The application of thermoset powdercoatings on aluminium has increased dramatically. The wide variety of powder types now available in the process allow the engineer or architect to specify powdercoating for a wide variety of applications with confidence. Polyester thermosetting powder is the most commonly specified product because of its excellent resistance to natural weathering, a high degree of chalk resistance and colour fastness, high levels of mechanical properties and good chemical and corrosion resistance.

Standard colour ranges provide ample choice but colour-matching to specific colours can be achieved on request. After a cleaning process, the surface is chromate-converted to enhance corrosion resistance and optimise adhesion of the thermosetting.

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Aluminium is a proven construction material for buildings, vehicles, appliances and products, both as a framing and cladding material. In the building industry, it is by far the most common material used for window and door joinery, curtain walls and shop fronts. It is widely used in every aspect of the transport, leisure, boating and household appliance industries. Its selection is based on many criteria – one being its ease of fabrication to provide visual appeal and easy maintenance.

Aluminium has natural beauty and lustre of its own, yet its surface can be treated in various ways to protect and enhance its appearance, which can be maintained with regular, low-maintenance attention.

The surface of fabricated aluminium, whether untreated, anodised or coated, can be spoiled by improper care. Here, we briefly summarise the methods of maintaining good appearance of aluminium surfaces after installation. Usually this care is no more than periodic cleaning, as in eg. window glass. Anodising treatment will substantially enhance appearance, render the surface more resistant to various forms of attack and facilitate cleaning and maintenance.

The Architectural Aluminium Fabricators' Association of New Zealand has published a guide which deals with all aspects of design and use, care and maintenance. Here we only briefly highlight the cleaning aspect since it applies to so many users of architectural aluminium products.

Grime which causes deterioration cannot be prevented from settling on exposed surfaces. If cleaned reasonably frequently then the mildest methods of washing will produce satisfactory results. There are many ways to clean aluminium, from using plain water to harsh abrasives. The type of cleaning that should be used is governed by the finish, degree of soiling, and the size, shape and location of the surface to be cleaned. The mildest method possible should be used, particularly for aluminium which has been anodised.

With anodised aluminium, surface deterioration occurs as a result of grime deposition and contaminated moisture attack. In coastal environments it is caused by airborne chlorides, in industrial or urban environments by sulphur compounds. Grime deposits absorb contaminated moisture like a sponge, assisting attack on the film, which cannot be restored without removal. Cleaning frequency depends on accessibility and environmental severity. In rural areas, cleaning may be needed only every six months. In industrial and marine environments, cleaning is recommended at least every three months, preferably monthly.

The following cleaning materials and procedures are listed in order from mild to harsh. The mildest treatment should be tried on a small area and if not satisfactory only then should the next be examined:

1. Plain water
2. Water with mild soap or detergent
3. Solvents, eg. kerosene, turpentine, white spirit.
4. Non-etching chemical cleaner
5. Wax-based polish
6. Abrasive wax
7. Abrasives

After applying cleaning agents, the surface should be washed down thoroughly and dried with a clean cloth to prevent streaking. There should be no concentration of cleaning agents at the bottom edges of the aluminium. If using proprietary cleaning solutions, manufacturers' recommendations should be obtained and followed carefully.

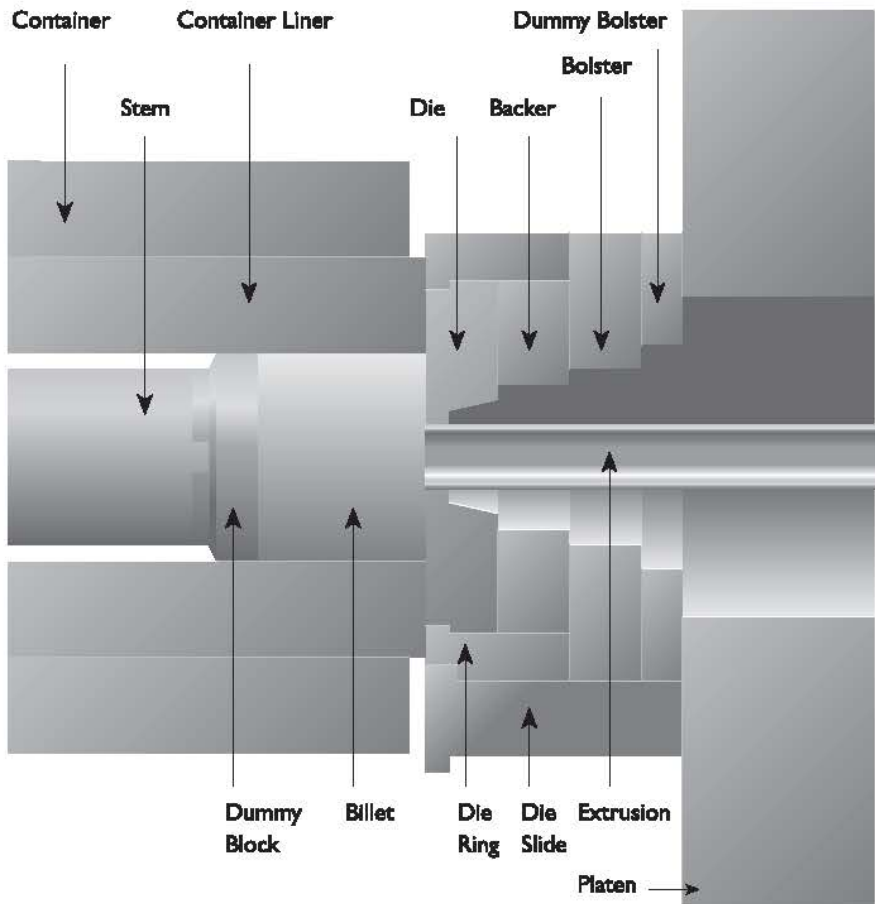
If abrasives are used, the appearance of the aluminium finish may be altered. If there is a grain in the finish, cleaning action should always be with the grain. If the condition of the surface indicates the use of abrasive or etching materials, it is advisable to consult a cleaning specialist. If all other methods fail it may be necessary to resort to heavy-duty cleaning. This involves cleaning methods using strong etching chemicals or coarser abrasives.



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Profiles in one process



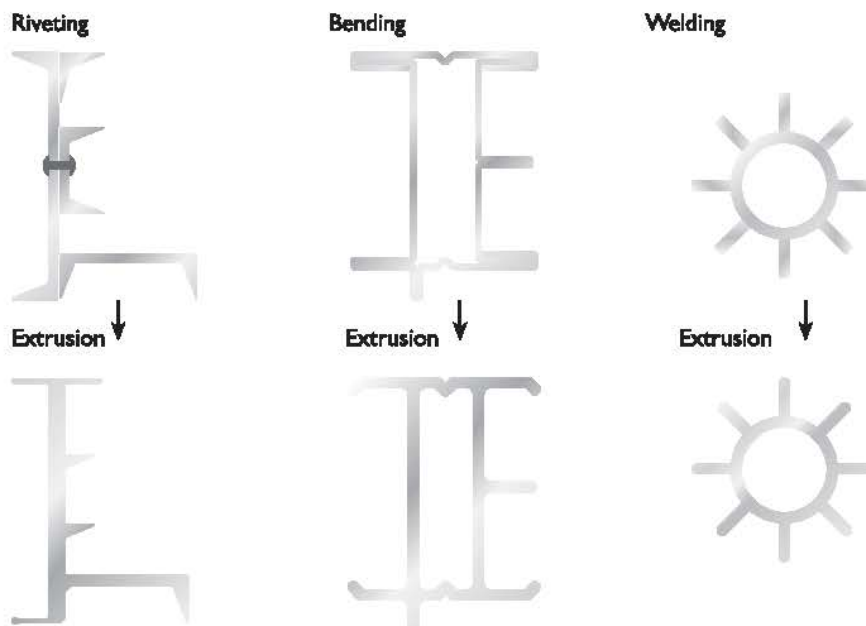
In the extrusion of aluminium, long billets are cut to manageable lengths, heated to 400° to 500°C then fed into a container heater of the extruder. The billet is then pushed through the die by hydraulic force to form the extruded shape.

In this process, the quality of the extruded profile is influenced by the billet temperature, die temperature, extrusion speed and other technical conditions, and rigid quality control constraints are required throughout.

The extruded profile is tensed with a pulling mechanism and cooled in transit from the runout table. Flexure, torsion and other irregularities generated in extrusion and cooling are removed in this process.

The length of the extrusion at this stage is about 20 to 40 metres. It is then cut into shorter lengths as required.

Typical preliminary processes for more complex extrusions



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CONVERSION BASICS

Linear

1 inch	25.4 mm
1 foot	0.3048 m
1 mm	0.0394 inches
1 m	3.28 feet

Area

1 sq inch	645 sq mm
1 sq foot	0.0929 sq m
1 sq mm	0.00155 sq in
1 sq m	10.84 sq ft

Volume

1 cubic inch	16387 cu mm
1 cu mm	0.000061 cu in

Force

1 lb per sq ft	4.45 Newtons
1 Newton	0.225 lbs per ft

Stress

1 lb per sq in	0.00689 MPa
1 MPa	145 lbs per sq in

inches	mm	inches	mm	inches	mm	inches	mm
1/64	0.3969	1 1/32	26.1938	3 1/32	76.9938	5 1/32	127.794
1/32	0.7938	1 1/16	26.9875	3 1/16	77.7875	5 1/16	128.588
3/64	1.1906	1 3/32	27.7813	3 3/32	78.5813	5 3/32	129.381
1/16	1.5875	1 1/8	28.5750	3 1/8	79.3750	5 1/8	130.175
5/64	1.9844	1 5/32	29.3688	3 5/32	80.1688	5 5/32	130.969
3/32	2.3813	1 3/16	30.1625	3 3/16	80.9625	5 3/16	131.762
7/64	2.7781	1 7/32	30.9563	3 7/32	81.7563	5 7/32	132.556
1/8	3.1750	1 1/4	31.7500	3 1/4	82.5500	5 1/4	133.350
9/64	3.5719	1 9/32	32.5438	3 9/32	83.3438	5 9/32	134.144
5/32	3.9688	1 5/16	33.3375	3 5/16	84.1375	5 5/16	134.938
11/64	4.3656	1 11/32	34.1313	3 11/32	84.9313	5 11/32	135.731
3/16	4.7625	1 3/8	34.9250	3 3/8	85.7250	5 3/8	136.525
13/64	5.1594	1 13/32	35.7188	3 13/32	86.5188	5 13/32	137.319
7/32	5.5563	1 7/16	36.5125	3 7/16	87.3125	5 7/16	138.112
15/64	5.9531	1 15/32	37.3063	3 15/32	88.1063	5 15/32	138.906
1/4	6.3500	1 1/2	38.1000	3 1/2	88.9000	5 1/2	139.700
17/64	6.7469	1 17/32	38.8938	3 17/32	89.6938	5 17/32	140.494
9/32	7.1438	1 9/16	39.6875	3 9/16	90.4875	5 9/16	141.288
19/64	7.5406	1 19/32	40.4813	3 19/32	91.2813	5 19/32	142.081
5/16	7.9375	1 5/8	41.2750	3 5/8	92.0750	5 5/8	142.875
21/64	8.3344	1 21/32	42.0688	3 21/32	92.8688	5 21/32	143.669
11/32	8.7313	1 11/16	42.8625	3 11/16	93.6625	5 11/16	144.462
23/64	9.1281	1 23/32	43.6563	3 23/32	94.4563	5 23/32	145.256
3/8	9.5250	1 3/4	44.4500	3 3/4	95.2500	5 3/4	146.050
25/64	9.9219	1 25/32	45.2438	3 25/32	96.0438	5 25/32	146.844
13/32	10.3188	1 13/16	46.0375	3 13/16	96.8375	5 13/16	147.638
27/64	10.7156	1 27/32	46.8313	3 27/32	97.6313	5 27/32	148.431
7/16	11.1125	1 7/8	47.6250	3 7/8	98.4250	5 7/8	149.225
29/64	11.5094	1 29/32	48.4188	3 29/32	99.2188	5 29/32	150.019
15/32	11.9063	1 15/16	49.2125	3 15/16	100.0120	5 15/16	150.812
31/64	12.3031	1 31/32	50.0063	3 31/32	100.8060	5 31/32	151.606
1/2	12.7000	2 inches	50.8000	4 inches	101.6000	6 inches	152.400
33/64	13.0969	2 1/32	51.5938	4 1/32	102.3940	6 1/16	153.988
17/32	13.4938	2 1/16	52.3875	4 1/16	103.1880	6 1/8	155.575
35/64	13.8906	2 3/32	53.1813	4 3/32	103.9810	6 3/16	157.162
9/16	14.2875	2 1/8	53.9750	4 1/8	104.7750	6 1/4	158.750
37/64	14.6844	2 5/32	54.7688	4 5/32	105.5690	6 5/16	160.338
19/32	15.0813	2 3/16	55.5625	4 3/16	106.3620	6 3/8	161.925
39/64	15.4781	2 7/32	56.3563	4 7/32	107.1560	6 7/16	163.512
5/8	15.8750	2 1/4	57.1500	4 1/4	107.9500	6 1/2	165.100
41/64	16.2719	2 9/32	57.9438	4 9/32	108.7440	6 9/16	166.688
21/32	16.6688	2 5/16	58.7375	4 5/16	109.5380	6 5/8	168.275
43/64	17.0656	2 11/32	59.5313	4 11/32	110.3310	6 11/16	169.862
11/16	17.4625	2 3/8	60.3250	4 3/8	111.1250	6 3/4	171.450
45/64	17.8594	2 13/32	61.1188	4 13/32	111.9190	6 13/16	173.038
23/32	18.2563	2 7/16	61.9125	4 7/16	112.7120	6 7/8	174.625
47/64	18.6531	2 15/32	62.7063	4 15/32	113.5060	6 15/16	176.212
3/4	19.0500	2 1/2	63.5000	4 1/2	114.3000	7 inches	177.800
49/64	19.4469	2 17/32	64.2938	4 17/32	115.0940	7 1/16	179.388
25/32	19.8438	2 9/16	65.0875	4 9/16	115.8880	7 1/8	180.975
51/64	20.2406	2 19/32	65.8813	4 19/32	116.6810	7 3/16	182.562
13/16	20.6375	2 5/8	66.6750	4 5/8	117.4750	7 1/4	184.150
53/64	21.0344	2 21/32	67.4688	4 21/32	118.2690	7 5/16	185.738
27/32	21.4313	2 11/16	68.2625	4 11/16	119.0620	7 3/8	187.325
55/64	21.8281	2 23/32	69.0563	4 23/32	119.8560	7 7/16	188.912
7/8	22.2250	2 3/4	69.8500	4 3/4	120.6500	7 1/2	190.500
57/64	22.6219	2 25/32	70.6438	4 25/32	121.4440	7 9/16	192.088
29/32	23.0188	2 13/16	71.4375	4 13/16	122.2380	7 5/8	193.675
59/64	23.4156	2 27/32	72.2313	4 27/32	123.0310	7 11/16	195.262
15/16	23.8125	2 7/8	73.0250	4 7/8	123.8250	7 3/4	196.850
61/64	24.2094	2 29/32	73.8188	4 29/32	124.6190	7 13/16	198.438
31/32	24.6063	2 15/16	74.6125	4 15/16	125.4120	7 7/8	200.025
63/64	25.0031	2 31/32	75.4063	4 31/32	126.2060	7 15/16	201.612
1 inch	25.4000	3 inches	76.2000	5 inches	127.0000	8 inches	203.200



DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS. OADB = OVERALL DIMENSIONS P = EXT PERIPHERY

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inches	mm	ft ins	mm	ft ins	mm	feet	mm
8 1/16	204.788	1 1	330.200	6 5	1955.80	31	9448.80
8 1/8	206.375	1 2	355.600	6 6	1981.20	32	9753.60
8 3/16	207.962	1 3	381.000	6 7	2006.60	33	10,058.4
8 1/4	209.550	1 4	406.400	6 8	2032.00	34	10,363.2
8 5/16	211.138	1 5	431.800	6 9	2057.40	35	10,668.0
8 3/8	212.725	1 6	457.200	6 10	2082.80	36	10,972.8
8 7/16	214.312	1 7	482.600	6 11	2108.20	37	11,277.6
8 1/2	215.900	1 8	508.000	7 0	2133.60	38	11,582.4
8 9/16	217.488	1 9	533.400	7 1	2159.00	39	11,887.2
8 5/8	219.075	1 10	558.800	7 2	2184.40	40	12,192.0
8 11/16	220.662	1 11	584.200	7 3	2209.80	41	12,496.8
8 3/4	222.250	2 0	609.600	7 4	2235.20	42	12,801.6
8 13/16	223.838	2 1	635.000	7 5	2260.60	43	13,106.4
8 7/8	225.425	2 2	660.400	7 6	2286.00	44	13,411.2
8 15/16	227.012	2 3	685.800	7 7	2311.40	45	13,716.0
9 inches	228.600	2 4	711.200	7 8	2336.80	46	14,020.8
9 1/16	230.188	2 5	736.600	7 9	2362.20	47	14,325.6
9 1/8	231.775	2 6	762.000	7 10	2387.60	48	14,630.4
9 3/16	233.362	2 7	787.400	7 11	2413.00	49	14,935.2
9 1/4	234.950	2 8	812.800	8 0	2438.40	50	15,420.0
9 5/16	236.538	2 9	838.200	8 1	2463.80	51	15,544.8
9 3/8	238.125	2 10	863.600	8 2	2489.20	52	15,849.6
9 7/16	239.712	2 11	889.000	8 3	2514.60	53	16,154.4
9 1/2	241.300	3 0	914.400	8 4	2540.00	54	16,459.2
9 9/16	242.888	3 1	939.800	8 5	2565.40	55	16,764.0
9 5/8	244.475	3 2	965.200	8 6	2590.80	56	17,068.8
9 11/16	246.062	3 3	990.600	8 7	2616.20	57	17,373.6
9 3/4	247.650	3 4	1016.00	8 8	2641.60	58	17,678.4
9 13/16	249.238	3 5	1041.40	8 9	2667.00	59	17,983.2
9 7/8	250.825	3 6	1066.80	8 10	2692.40	60	18,288.0
9 15/16	252.412	3 7	1092.20	8 11	2717.80	61	18,592.8
10 inches	254.000	3 8	1117.60	9 0	2743.20	62	18,897.6
10 1/16	255.588	3 9	1143.00	9 1	2768.60	63	19,202.4
10 1/8	257.175	3 10	1168.40	9 2	2794.00	64	19,507.2
10 3/16	258.762	3 11	1193.80	9 3	2819.40	65	19,812.0
10 1/4	260.350	4 0	1219.20	9 4	2844.80	66	20,116.8
10 5/16	261.938	4 1	1244.60	9 5	2870.20	67	20,421.6
10 3/8	263.525	4 2	1270.00	9 6	2895.60	68	20,726.4
10 7/16	265.112	4 3	1295.40	9 7	2921.00	69	21,031.2
10 1/2	266.700	4 4	1320.80	9 8	2946.40	70	21,336.0
10 9/16	268.288	4 5	1346.20	9 9	2971.80	71	21,640.8
10 5/8	269.875	4 6	1371.60	9 10	2997.20	72	21,945.6
10 11/16	271.462	4 7	1397.00	9 11	3022.60	73	22,250.4
10 3/4	273.050	4 8	1422.40	10 0	3048.00	74	22,555.2
10 13/16	274.638	4 9	1447.80	11 0	3352.80	75	22,860.0
10 7/8	276.225	4 10	1473.20	12 0	3657.60	76	23,164.8
10 15/16	277.812	4 11	1498.60	13 0	3962.40	77	23,469.6
11 inches	279.400	5 0	1524.00	14 0	4267.20	78	23,774.4
11 1/16	280.988	5 1	1549.40	15 0	4572.00	79	24,079.2
11 1/8	282.575	5 2	1574.80	16 0	4876.80	80	24,384.0
11 3/16	284.162	5 3	1600.20	17 0	5181.60	81	24,688.8
11 1/4	285.750	5 4	1625.60	18 0	5486.40	82	24,993.6
11 5/16	287.338	5 5	1651.00	19 0	5791.20	83	25,298.4
11 3/8	288.925	5 6	1676.40	20 0	6096.00	84	25,603.2
11 7/16	290.512	5 7	1701.80	21 0	6400.80	85	25,908.0
11 1/2	292.100	5 8	1727.20	22 0	6705.60	86	26,212.8
11 9/16	293.688	5 9	1752.60	23 0	7010.40	87	26,517.6
11 5/8	295.275	5 10	1778.00	24 0	7315.20	88	26,822.4
11 11/16	296.862	5 11	1803.40	25 0	7620.00	89	27,127.2
11 3/4	298.450	6 0	1828.80	26 0	7924.80	90	27,432.0
11 13/16	300.038	6 1	1854.20	27 0	8229.60	91	27,736.8
11 7/8	301.625	6 2	1879.60	28 0	8534.40	92	28,041.6
11 15/16	303.212	6 3	1905.00	29 0	8839.20	93	28,346.4
12 inches	304.800	6 4	1930.40	30 0	9144.00	94	28,651.2

USEFUL FORMULAE

Nominal mass (kg/m²) of Aluminium Sheet and Plate:

Thickness mm	Nominal mass kg/m ²
0.5	1.335
0.6	1.626
0.7	1.897
0.8	2.168
0.9	2.439
1.0	2.710
1.2	3.252
1.6	4.336
2.0	5.420
2.5	6.775
3.0	8.130
4.0	10.840
5.0	13.550
6.0	16.260
8.0	21.680
10.0	27.100
12.0	32.520
16.0	43.360
20.0	54.200
25.0	67.750

Nominal mass (kg/m²) of extruded aluminium:

Calculate cross-section area (mm²) and multiply by 0.00271

Factor

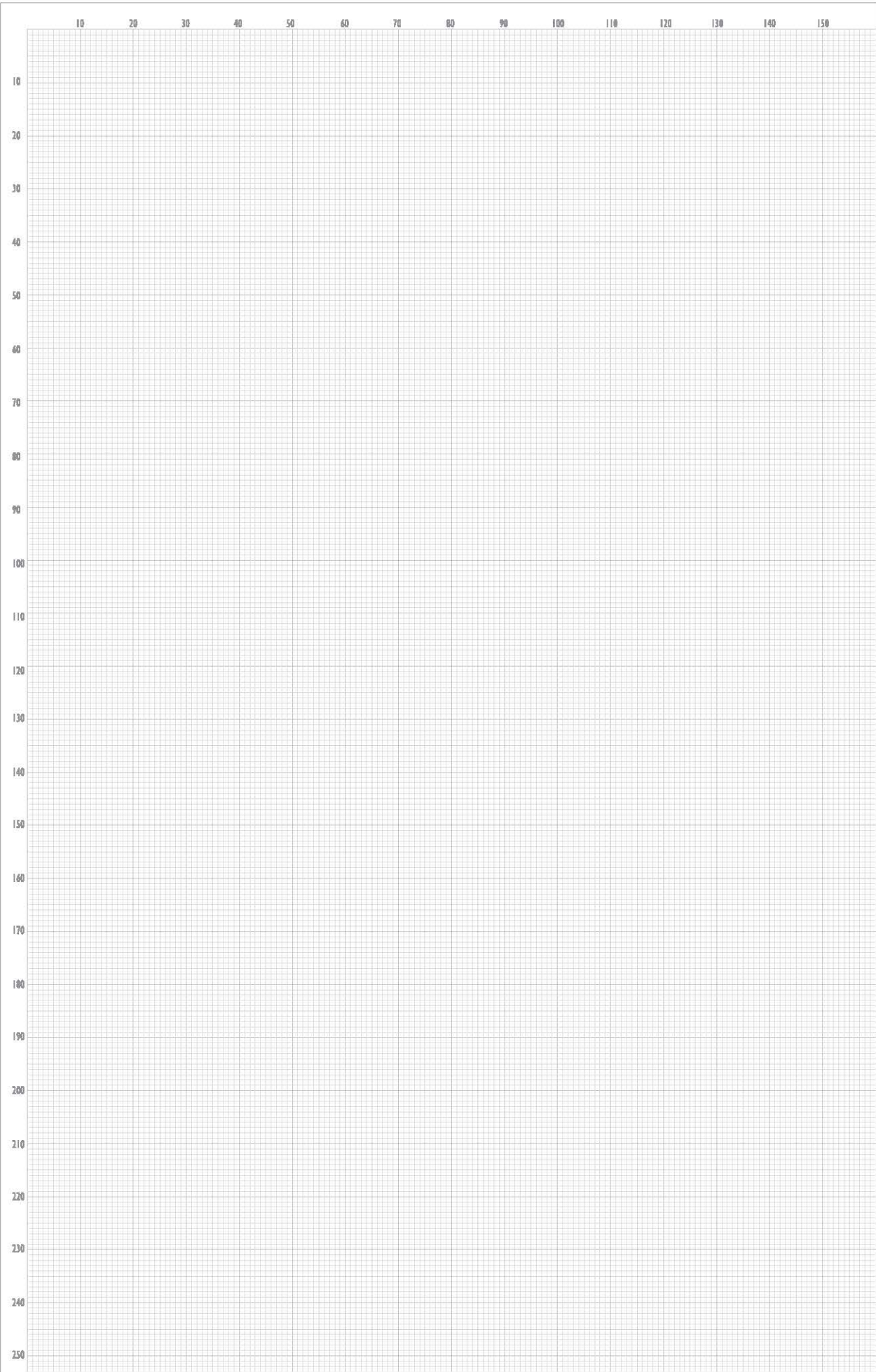
(Difficulty of Extrusion Factor)

Calculate the perimeter of the section (for hollow sections, both outside and inside perimeters) and divide the result by the nominal mass (kg/m) of the section.

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P. = EXT PERIPHERY

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Map key:

- SALES & DISTRIBUTION
- ✚ MANUFACTURING
- EXTRUSION PLANT

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