

# ULLRICH ALUMINIUM



## EXTRUSION CATALOGUE

**60<sup>TH</sup> 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

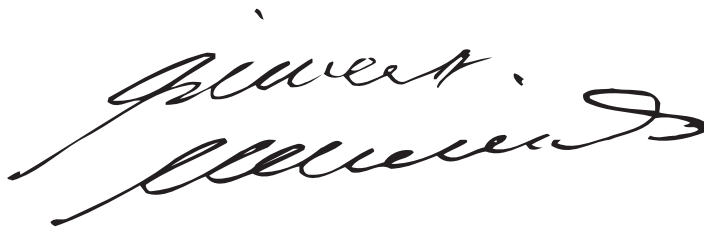
# ULLRICH ALUMINIUM EXTRUSION CATALOGUE

## 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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Square & Rectangular Hollow	Machining Flat Bar
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Drawn Round Tube	Top Hat
Solid Round, Square, Hexagon	Zed, I Beam, Half Round, Cope Mould
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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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OAD = OVERALL DIMENSIONS  
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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						
<b>SOLID FREE MACHINING ROD</b>							
	1-18						



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.

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

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

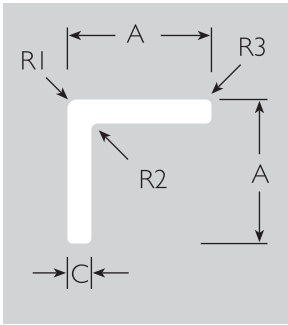
**MINIMUM ORDER  
QUANTITY 200KG**

CONTACT YOUR LOCAL  
BRANCH TO ENQUIRE

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DIAGRAMS ACTUAL SIZE UNLESS  
OTHERWISE INDICATED.  
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R = Radiused corner

NOTE: RED INDICATES

= MILL RUN ONLY =  
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MINIMUM ORDER  
QUANTITY 200KG

CONTACT YOUR LOCAL  
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DIE No.	A	B	C	D	RI	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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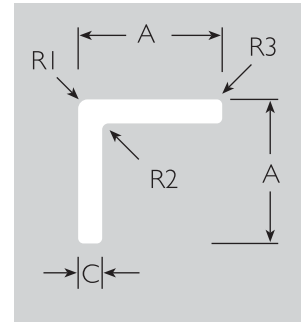
Edition 18 - 2021

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

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DIE No.	A	B	C	D	RI	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
<b>UA 10581</b>	<b>100.00</b>		<b>10.00</b>		<b>0.80</b>	<b>0.50</b>	<b>0.80</b>	<b>5.128</b>	<b>399</b>



R = Radiused corner

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QUANTITY 200KG**

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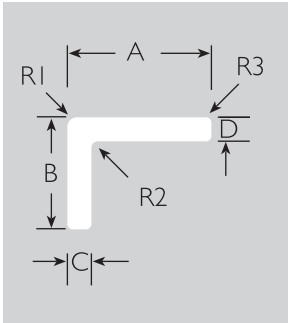
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DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
UA 1533	19.05	9.53	1.59					0.116	57
UA 1731	20.00	12.00	1.60					0.131	64
UA 1102	22.00	12.00	3.00					0.252	68
UA 5504	22.00	18.00	1.60					0.166	80
UA 1534	22.23	9.53	1.59					0.130	64
UA 1093	25.00	12.00	1.60					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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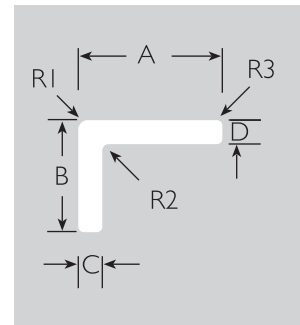
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Edition 18 - 2021

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DIE No.	A	B	C	D	RI	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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QUANTITY 200KG**

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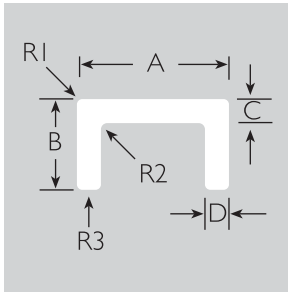


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DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
UA 3768	9.50	13.00	2.40	1.60				0.153	66
UA 1130	10.00	10.00	1.60	1.60				0.116	57
UA 1374	10.00	15.00	1.60	1.50				0.151	76
UA 1713	12.00	12.00	1.60	1.60				0.142	68
UA 1134	12.00	12.00	2.50	2.50				0.210	67
UA 1131	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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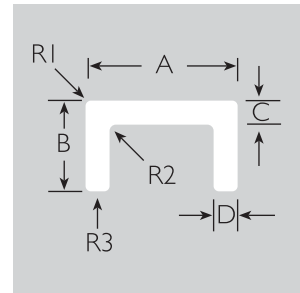
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DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
UA 1144	45.00	25.00	3.00	3.00				0.723	184
UA 1043	47.00	17.00	1.50	1.40			F	0.307	158
UA 1145	50.00	25.00	3.00	3.00				0.764	194
<b>UA 3061</b>	<b>50.00</b>	<b>25.00</b>	<b>6.00</b>	<b>6.00</b>				<b>1.425</b>	<b>188</b>
<b>UA 6494</b>	<b>50.00</b>	<b>50.00</b>	<b>3.00</b>	<b>3.00</b>	<b>0.50</b>	<b>0.50</b>	<b>0.50</b>	<b>1.166</b>	<b>293</b>
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
<b>UA 5251</b>	<b>75.00</b>	<b>40.00</b>	<b>6.00</b>	<b>6.00</b>	<b>0.50</b>	<b>0.50</b>	<b>0.50</b>	<b>2.316</b>	<b>297</b>
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
<b>UA 5303</b>	<b>76.20</b>	<b>38.10</b>	<b>6.35</b>	<b>7.92</b>		<b>7.62</b>		<b>2.731</b>	<b>285</b>
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
<b>UA 7409</b>	<b>99.00</b>	<b>25.00</b>	<b>2.00</b>	<b>2.00</b>	<b>0.50</b>	<b>0.50</b>	<b>0.50</b>	<b>0.782</b>	<b>292</b>
UA 1135	100.00	25.00	3.00	3.00				1.170	294
<b>UA 7171</b>	<b>100.00</b>	<b>38.00</b>	<b>3.00</b>	<b>3.00</b>				<b>1.376</b>	<b>345</b>
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
<b>UA 2464</b>	<b>100.00</b>	<b>50.00</b>	<b>6.00</b>	<b>8.00</b>	<b>8.00</b>	<b>6.00</b>		<b>3.488</b>	<b>376</b>
<b>UA 5723</b>	<b>101.60</b>	<b>50.80</b>	<b>6.35</b>	<b>7.90</b>	<b>0.50</b>	<b>0.50</b>	<b>0.50</b>	<b>3.638</b>	<b>392</b>
<b>UA 7433</b>	<b>111.00</b>	<b>27.00</b>	<b>2.00</b>	<b>2.00</b>				<b>0.869</b>	<b>325</b>
UA 2804	120.00	65.00	12.00	12.00	0.50	0.50	0.50	7.349	475
<b>UA 5302</b>	<b>125.00</b>	<b>50.00</b>	<b>4.00</b>	<b>8.00</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>	<b>3.328</b>	<b>436</b>
UA 5058	125.00	50.00	6.00	8.00	0.50	0.50	0.50	3.925	437



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QUANTITY 200KG**

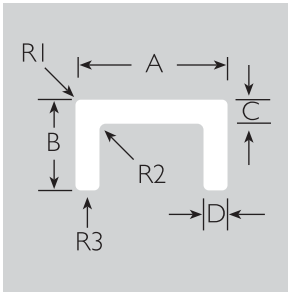
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DIE No.	A	B	C	D	R1	R2	R3	kg/m	P
<b>UA 5187</b>	140.00	55.00	6.00	8.00	0.50	5.00	0.50	4.413	483
<b>UA 7894</b>	142.00	75.00	6.00	6.00	0.50	0.50	0.50	4.535	571
<b>UA 1653</b>	150.00	75.00	6.00	8.00				5.410	588
<b>UA 5099</b>	160.00	60.00	6.00	9.00	0.50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

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 AND NOT INTENDED AS SPECIFICATION DRAWINGS.

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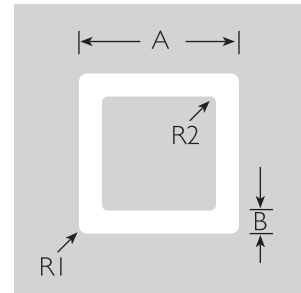
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Edition 18 - 2021

**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	RI	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
<b>UA 5286</b>	<b>19.00</b>	<b>1.80</b>			<b>1.50</b>			<b>0.329</b>	<b>74</b>
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
<b>UA 4091</b>	<b>25.00</b>	<b>1.40</b>			<b>3.00</b>	<b>1.60</b>		<b>0.342</b>	<b>95</b>
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
<b>UA 5906</b>	<b>25.00</b>	<b>2.00</b>						<b>0.496</b>	<b>100</b>
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
<b>UA 1998</b>	<b>25.40</b>	<b>0.90</b>			<b>0.50</b>			<b>0.238</b>	<b>101</b>
UA 1642	25.40	1.20						0.313	102
UA 1205	30.00	1.60						0.493	120
<b>UA 2094</b>	<b>31.55</b>	<b>2.40</b>						<b>0.765</b>	<b>126</b>
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
<b>UA 7170</b>	<b>38.00</b>	<b>1.60</b>			<b>2.00</b>			<b>0.620</b>	<b>149</b>
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
<b>UA 6578</b>	<b>40.00</b>	<b>3.00</b>			<b>0.50</b>	<b>0.50</b>		<b>1.199</b>	<b>160</b>
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
<b>UA 6249</b>	<b>40.00</b>	<b>4.00</b>			<b>3.00</b>			<b>1.534</b>	<b>155</b>
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



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**MINIMUM ORDER  
QUANTITY 200KG**

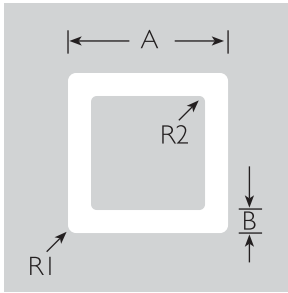
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QUANTITY 200KG**

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



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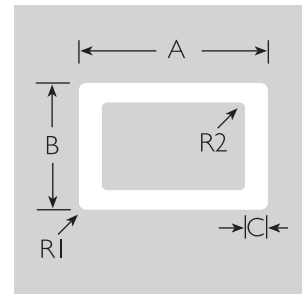
Edition 18 - 2021

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

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DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
UA 7454	30.00	10.00	1.60					0.318	80
<b>UA 2696</b>	<b>30.00</b>	<b>20.00</b>	<b>1.40</b> V GROOVED		<b>2.00</b>	<b>1.00</b>		<b>0.349</b>	<b>98</b>
UA 4981	38.00	25.00	1.60		1.00			0.514	125
<b>UA 6148</b>	<b>38.00</b>	<b>25.00</b>	<b>1.80</b>		<b>2.50</b>	<b>0.70</b>		<b>0.564</b>	<b>122</b>
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
<b>UA 6451</b>	<b>44.00</b>	<b>22.00</b>	<b>3.00</b>		<b>5.00</b>	<b>2.00</b>		<b>0.923</b>	<b>124</b>
<b>UA 5361</b>	<b>45.00</b>	<b>30.00</b>	<b>2.00</b>		<b>3.00</b>	<b>1.00</b>		<b>0.748</b>	<b>145</b>
<b>UA 4806</b>	<b>46.50</b>	<b>25.40</b>	<b>1.60</b>		<b>1.00</b>	<b>0.80</b>		<b>0.593</b>	<b>143</b>
UA 4772	50.00	25.00	1.60		1.60			0.614	148
UA 1197	50.00	25.00	2.50					0.948	150
<b>UA 5909</b>	<b>50.00</b>	<b>25.00</b>	<b>2.50</b>		<b>3.00</b>	<b>0.50</b>		<b>0.925</b>	<b>145</b>
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
<b>UA 3786</b>	<b>65.00</b>	<b>30.00</b>	<b>2.50</b>					<b>1.215</b>	<b>190</b>
<b>UA 5169</b>	<b>65.00</b>	<b>50.00</b>	<b>2.50</b>		<b>4.00</b>	<b>1.50</b>		<b>1.453</b>	<b>224</b>
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
<b>UA 7117</b>	<b>75.00</b>	<b>25.00</b>	<b>2.20</b>		<b>1.00</b>			<b>1.133</b>	<b>199</b>
UA 1537	75.00	40.00	2.00					1.199	230
<b>UA 7714</b>	<b>75.00</b>	<b>40.00</b>	<b>3.00</b>		<b>3.00</b>	<b>0.50</b>		<b>1.746</b>	<b>225</b>
UA 1204	75.00	40.00	6.00					3.350	230
UA 1536	75.00	45.00	2.00					1.253	240
<b>UA 5362</b>	<b>75.00</b>	<b>45.00</b>	<b>3.00</b>		<b>6.00</b>	<b>0.50</b>		<b>1.784</b>	<b>230</b>
<b>UA 5216</b>	<b>75.00</b>	<b>50.00</b>	<b>2.50</b>		<b>4.00</b>	<b>1.50</b>		<b>1.588</b>	<b>244</b>
UA 2946	75.00	50.00	3.00					1.935	250
<b>UA 4833</b>	<b>75.00</b>	<b>50.00</b>	<b>3.00</b>		<b>4.45</b>	<b>6.30</b>		<b>1.974</b>	<b>243</b>
UA 2106	75.00	50.00	4.00		2.00	0.80		2.529	247



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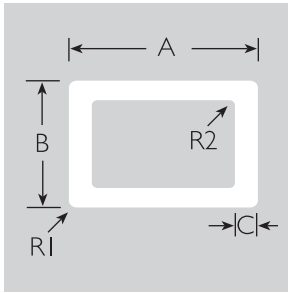
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DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
<b>UA 3045</b>	75.00	50.00	6.00		0.50			3.661	250
<b>UA 7169</b>	76.00	38.00	3.00		0.50	0.50		1.750	228
<b>UA 7168</b>	76.00	38.00	6.00		2.00			3.296	225
<b>UA 7893</b>	80.00	30.00	4.00		0.50	0.50		2.203	220
<b>UA 5242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



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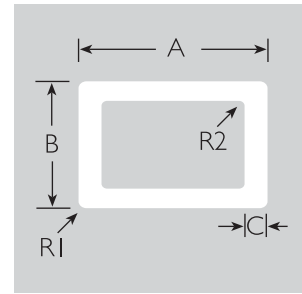
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DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
UA 1199	125.00	50.00	3.00					2.738	350
UA 4628	125.00	50.00	4.00		6.00	2.00		3.533	340
UA 4629	125.00	50.00	6.00		8.00	2.00		5.142	337
UA 4316	150.00	50.00	3.00		5.00	2.00		3.094	392
UA 2030	150.00	50.00	4.00					4.147	400
<b>UA 3660</b>	<b>150.00</b>	<b>50.00</b>	<b>5.00</b>		<b>10.00</b>	<b>5.00</b>		<b>4.956</b>	<b>383</b>
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
<b>UA 5453</b>	<b>152.40</b>	<b>76.20</b>	<b>4.00</b>		<b>4.50</b>	<b>0.50</b>		<b>4.719</b>	<b>450</b>
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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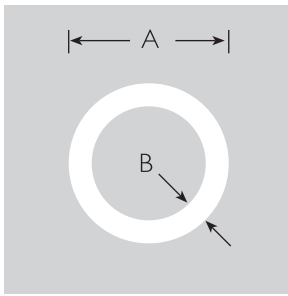
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DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
UA 1924	6.35	1.42						0.059	20
UA 1542	7.94	1.42						0.079	25
UA 1966	9.53	0.90						0.066	30
UA 1737	9.53	1.20						0.085	30
UA 1229	9.53	1.45						0.099	30
UA 1927	9.53	1.60						0.108	30
<b>UA 9108</b>	<b>9.90</b>	<b>1.60</b>						<b>0.113</b>	<b>32</b>
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
<b>UA 3141</b>	<b>15.88</b>	<b>1.22</b>						<b>0.152</b>	<b>50</b>
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
<b>UA 7803</b>	<b>20.00</b>	<b>2.00</b>						<b>0.305</b>	<b>63</b>
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
<b>UA 6432</b>	<b>22.50</b>	<b>2.00</b>						<b>0.348</b>	<b>71</b>
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
<b>UA 3942</b>	<b>25.40</b>	<b>2.00</b>						<b>0.397</b>	<b>80</b>
<b>UA 5840</b>	<b>25.40</b>	<b>3.00</b>						<b>0.570</b>	<b>80</b>
<b>UA 4870</b>	<b>26.50</b>	<b>1.40</b>						<b>0.298</b>	<b>84</b>
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
<b>UA 3453</b>	<b>31.00</b>	<b>3.00</b>						<b>0.713</b>	<b>98</b>



DIAGRAMS ACTUAL SIZE UNLESS  
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SPECIFICATION DRAWINGS.

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P = EXT PERIPHERY

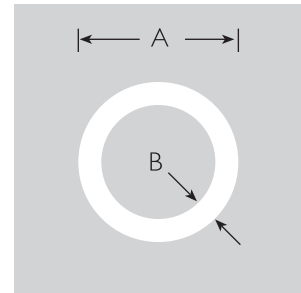
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Edition 18 - 2021

**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.

DIE No.	A	B	C	D	RI	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



NOTE: RED INDICATES  
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NON-STOCKED ITEM

MINIMUM ORDER  
QUANTITY 200KG

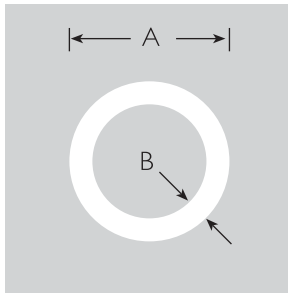
CONTACT YOUR LOCAL  
BRANCH TO ENQUIRE

DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.  
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MINIMUM ORDER  
QUANTITY 200KG

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DIE No.	A	B	C	D	RI	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



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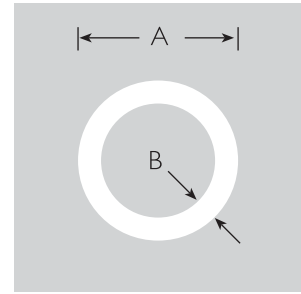
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Edition 18 - 2021

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

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DIE No.	A	B	C	D	RI	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



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**MINIMUM ORDER  
QUANTITY 200KG**

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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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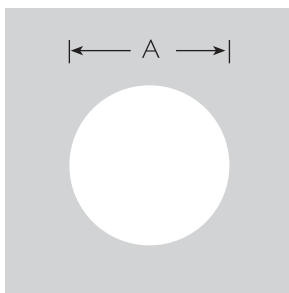
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**MINIMUM ORDER  
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DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
UA 1271	4.76							0.048	15
UA 1270	6.35							0.086	20
UA 1269	7.94							0.134	25
UA 1258	9.50							0.193	30
UA 1259	12.70							0.343	40
<b>UA 3321</b>	<b>14.50</b>							<b>0.446</b>	<b>46</b>
UA 1260	15.88							0.536	50
<b>UA 3939</b>	<b>18.00</b>							<b>0.687</b>	<b>57</b>
UA 1261	19.05							0.772	60
UA 2038	20.00							0.851	63
UA 1262	25.40							1.373	80
<b>UA 6759</b>	<b>28.00</b>							<b>1.663</b>	<b>88</b>
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



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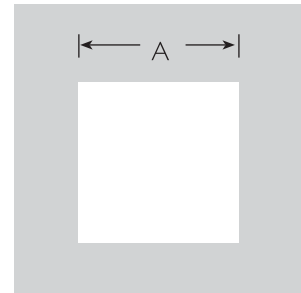
Edition 18 - 2021

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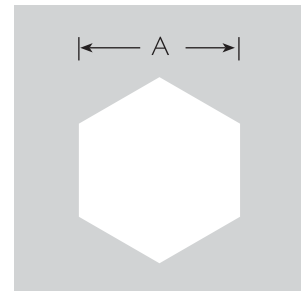


DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
<b>SOLID SQUARE</b>									
UA I279	6.35							0.109	25
UA I272	9.50							0.244	38
UA I273	12.70							0.437	51
UA I274	19.05							0.983	76
UA I275	25.40							1.748	102
UA I276	31.75							2.732	127
UA I277	38.10							3.934	152
UA I278	50.80							6.993	203



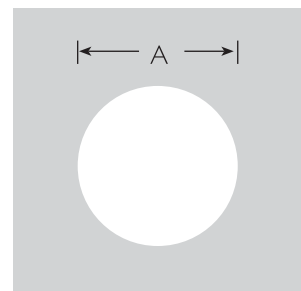
**SOLID HEXAGON**

UA I607	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



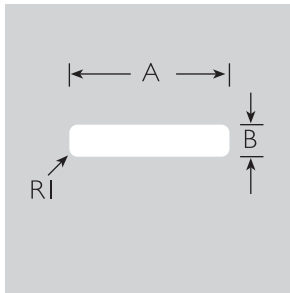
Free Machining Rod  
In lengths up to 3000mm

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R = Radiused corner

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**MINIMUM ORDER  
QUANTITY 200KG**

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DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
UA 1165	10.00	2.30						0.062	25
<b>UA 7106</b>	<b>11.70</b>	<b>2.20</b>						<b>0.069</b>	<b>28</b>
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
<b>UA 9028</b>	<b>38.00</b>	<b>6.00</b>						<b>0.615</b>	<b>88</b>
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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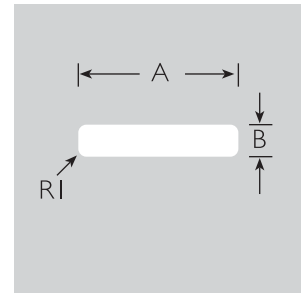
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Edition 18 - 2021

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DIE No.	A	B	C	D	RI	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
<b>UA 5281</b>	<b>50.00</b>	<b>5.00</b>			<b>0.50</b>			<b>0.674</b>	<b>110</b>
UA 1192	50.00	6.00						0.813	112
<b>UA 3640</b>	<b>50.00</b>	<b>6.00</b>			<b>F</b>			<b>0.789</b>	<b>107</b>
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			<b>F</b>			0.481	124
UA 2250	60.00	4.50			<b>F</b>			0.717	126
UA 2397	60.00	6.00						0.971	132
UA 3641	60.00	6.00			<b>F</b>			0.951	127
UA 3515	60.00	10.00			<b>F</b>			1.562	132
UA 4712	60.00	12.00						1.944	144
<b>UA 4428</b>	<b>60.00</b>	<b>37.50</b>			<b>1.00</b>			<b>6.073</b>	<b>194</b>
UA 1193	65.00	6.00						1.053	142
<b>UA 3306</b>	<b>65.00</b>	<b>10.00</b>						<b>1.755</b>	<b>150</b>
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
<b>UA 4123</b>	<b>75.00</b>	<b>16.00</b>						<b>3.239</b>	<b>182</b>
UA 1554	75.00	20.00						4.065	190
UA 1168	75.00	25.00						5.081	200
<b>UA 6354</b>	<b>75.00</b>	<b>40.00</b>			<b>1.50</b>			<b>8.095</b>	<b>228</b>
<b>UA 5195</b>	<b>75.00</b>	<b>50.00</b>			<b>0.50</b>			<b>10.124</b>	<b>250</b>
<b>UA 1550</b>	<b>76.20</b>	<b>7.94</b>						<b>1.639</b>	<b>168</b>
UA 2938	80.00	3.00						0.650	166
<b>UA 2940</b>	<b>80.00</b>	<b>6.00</b>						<b>1.301</b>	<b>172</b>
UA 1074	80.00	6.00			<b>F</b>			1.280	167
UA 5280	80.00	8.00			0.50			1.727	176
<b>UA 7404</b>	<b>80.00</b>	<b>10.00</b>						<b>2.160</b>	<b>180</b>
<b>UA 6167</b>	<b>80.00</b>	<b>12.00</b>			<b>0.50</b>			<b>2.591</b>	<b>184</b>
<b>UA 7107</b>	<b>80.00</b>	<b>15.00</b>			<b>0.50</b>			<b>3.239</b>	<b>190</b>
<b>UA 6750</b>	<b>80.00</b>	<b>16.00</b>			<b>2.00</b>			<b>3.447</b>	<b>189</b>
<b>UA 6748</b>	<b>80.00</b>	<b>20.00</b>			<b>2.00</b>			<b>4.311</b>	<b>197</b>
<b>UA 6749</b>	<b>80.00</b>	<b>25.00</b>			<b>2.00</b>			<b>5.391</b>	<b>207</b>



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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.

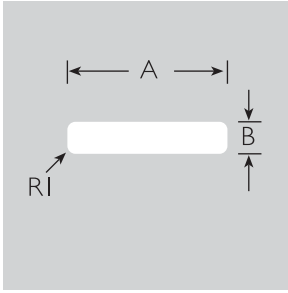
OAD = OVERALL DIMENSIONS  
P = EXT PERIPHERY

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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.



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	RI	R2	R3	kg/m	P
<b>UA 2009</b>	100.00	2.50						0.675	205
<b>UA 1169</b>	100.00	3.00						0.810	206
<b>UA 3369</b>	100.00	4.00						1.079	208
<b>UA 1186</b>	100.00	6.00						1.620	212
<b>UA 6821</b>	100.00	8.00			0.50			2.159	216
<b>UA 1555</b>	100.00	10.00						2.710	220
<b>UA 1157</b>	100.00	12.00						3.252	224
<b>UA 6168</b>	100.00	15.00			0.50			4.049	230
<b>UA 1166</b>	100.00	25.00						6.775	250
<b>UA 1185</b>	100.00	50.00						13.550	300
<b>UA 5462</b>	115.00	6.00						1.863	242
<b>UA 1187</b>	125.00	6.00						2.032	262
<b>UA 2733</b>	125.00	10.00						3.387	270
<b>UA 1556</b>	125.00	12.00						4.065	274
<b>UA 6169</b>	125.00	15.00			0.50			5.092	280
<b>UA 2249</b>	127.00	38.10						13.064	330
<b>UA 5282</b>	130.00	12.00			0.50			4.211	284
<b>UA 3479</b>	150.00	3.00						1.215	306
<b>UA 6668</b>	150.00	5.00			0.50			2.024	310
<b>UA 1557</b>	150.00	6.00						2.439	312
<b>UA 7134</b>	150.00	8.00			0.50			3.239	316
<b>UA 7133</b>	150.00	10.00			0.50			4.049	320
<b>UA 1158</b>	150.00	12.00						4.878	324
<b>UA 2941</b>	160.00	6.00						2.592	332
<b>UA 3408</b>	160.00	10.00			0.50			4.319	340
<b>UA 4430</b>	200.00	10.00						5.399	420



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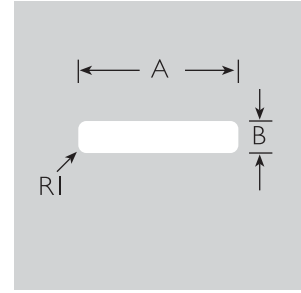
Edition 18 - 2021

**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.

MACHINING FLAT BAR 6061-T6511

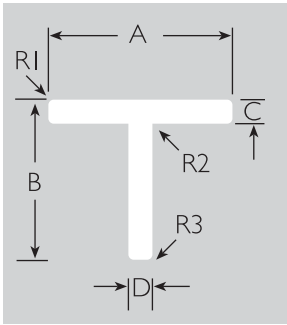
DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
UA 6934	50.80	19.05			0.40			2.613	139
UA 6935	50.80	25.40			0.40			3.483	152
UA 6936	63.50	31.75			0.40			5.443	190
UA 6937	76.20	38.10			0.40			7.838	228
UA 6939	76.20	50.80			0.40			10.451	254
UA 6943	76.20	63.50			0.40			13.064	279
UA 6938	101.60	38.10			0.40			10.451	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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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	RI	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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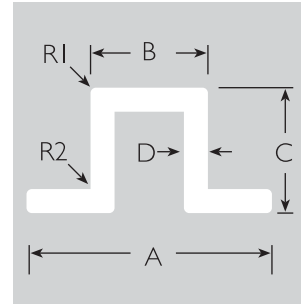
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Edition 18 - 2021

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

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DIE No.	A	B	C	D	RI	R2	R3	kg/m	P
<b>TOP HAT</b>									
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

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**MINIMUM ORDER  
QUANTITY 200KG**

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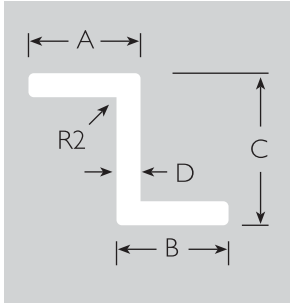
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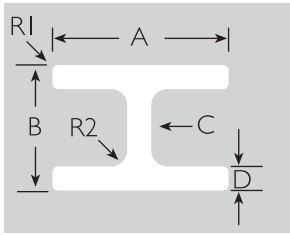
**MR = MILL RUN ONLY • NON-STOCKED ITEM • MINIMUM ORDER 200KG**

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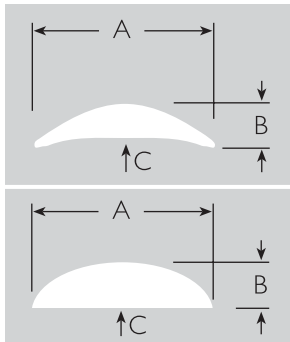
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<b>UA 1221</b>	16.00	20.00	25.00	1.60		0.251	119
<b>UA 2983</b>	18.50	20.00	15.00	1.50	B LEG 2.75	0.267	104
<b>UA 6725</b>	19.00	19.00	25.40	2.00	3.00	0.327	118
<b>UA 1222</b>	20.00	20.00	25.00	3.00		0.480	124
<b>UA 1639</b>	25.00	19.00	17.00	1.60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



I BEAM

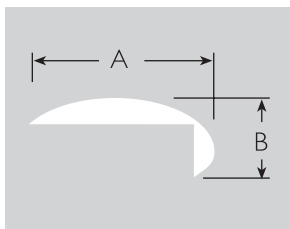
<b>UA 1196</b>	40.00	40.00	3.00	3.00		0.927	234
<b>UA 1195</b>	45.00	50.00	2.50	2.50		0.915	275
<b>UA 1493</b>	69.90	102.00	3.43	5.54	+2.96 LIP 3.00	3.083	490
<b>UA 4389</b>	100.00	150.00	7.10	9.50	11.10	7.926	665



DIE No.

HALF ROUND

	A	B	C	D	RI	R2	R3	kg/m	P
<b>UA 1443</b>	12.50	4.50	CONCAVE					0.104	29
<b>UA 1444</b>	16.00	4.50	CONCAVE					0.119	36
<b>UA 1445</b>	19.00	4.50	CONCAVE					0.113	42
<b>UA 1446</b>	25.50	4.50	CONCAVE					0.149	54
<b>UA 1447</b>	32.00	6.00	CONCAVE					0.275	68
<b>UA 1448</b>	38.00	6.00	CONCAVE					0.325	79
<b>UA 1449</b>	51.00	6.00	FLAT					0.578	105



COPE MOULD

<b>UA 1501</b>	18.50	18.50						0.181	68
<b>UA 1500</b>	23.80	8.26						0.149	59
<b>UA 1499</b>	34.43	14.53						0.346	88

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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
<b>UA 2895</b>	<b>CHANNEL</b>
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
<b>UA 4255</b>	<b>CHANNEL</b>
UA 6877	ANGLE
UA 6878	CHANNEL
UA 6879	DOOR FRAME
UA 6880	DOOR FRAME
<b>UA 7172</b>	<b>COVING</b>

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**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 1502**

CHANNEL  
kg/m 0.541 P 253  
OAD 53.2 × 45 × 1.6

**UA 1503**

CHANNEL  
kg/m 0.650 P 303  
OAD 78.2 × 45 × 1.6

**UA 1504**

CHANNEL  
kg/m 0.758 P 353  
OAD 103.2 × 45 × 1.6

**UA 2622**

CHANNEL  
kg/m 0.769 P 358  
OAD 105.7 × 45 × 1.6

**UA 2799**

CHANNEL  
kg/m 0.509 P 254  
OAD 54 × 45 × 1.5

**UA 2800**

CHANNEL  
kg/m 0.610 P 304  
OAD 79 × 45 × 1.5

**UA 2801**

CHANNEL  
kg/m 0.712 P 354  
OAD 104 × 45 × 1.5

**UA 2895 (MR)**

CHANNEL  
kg/m 0.495 P 215  
OAD 53 × 28

**UA 3812**

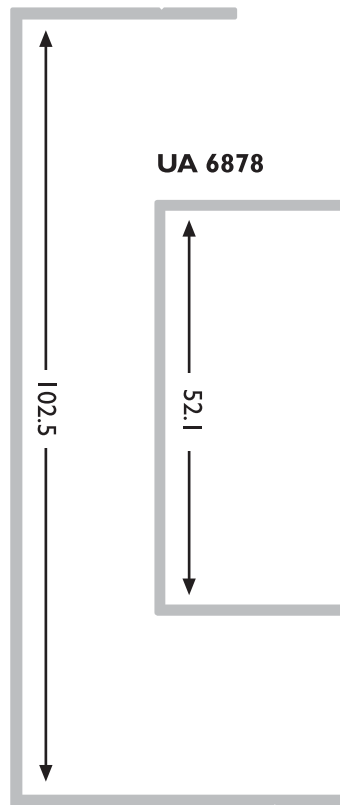
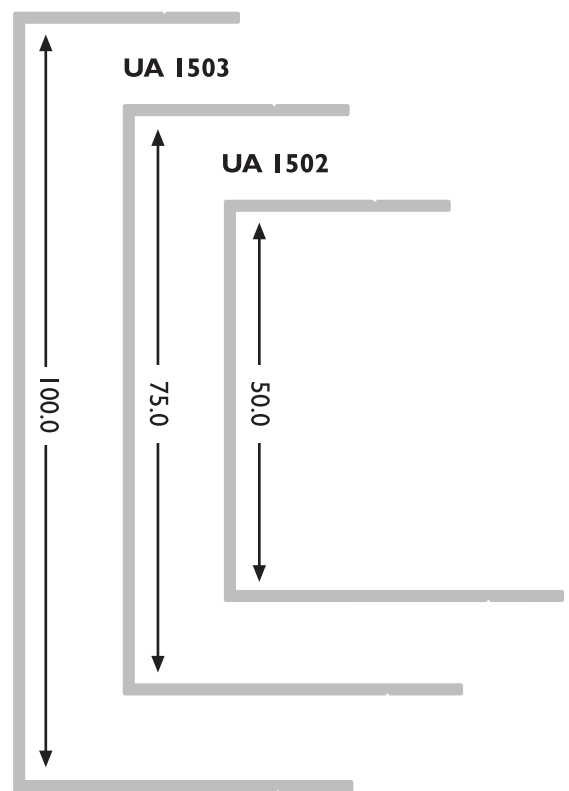
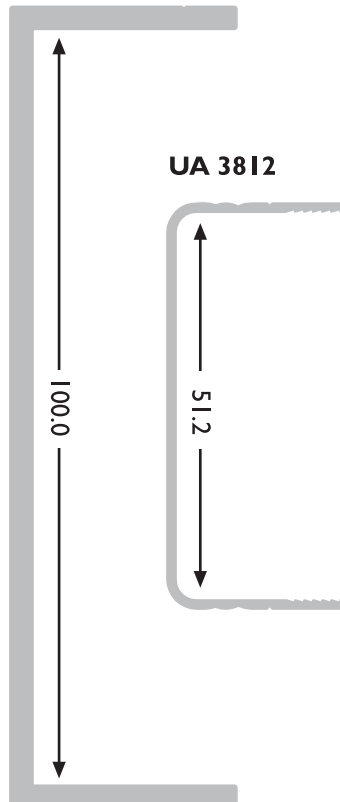
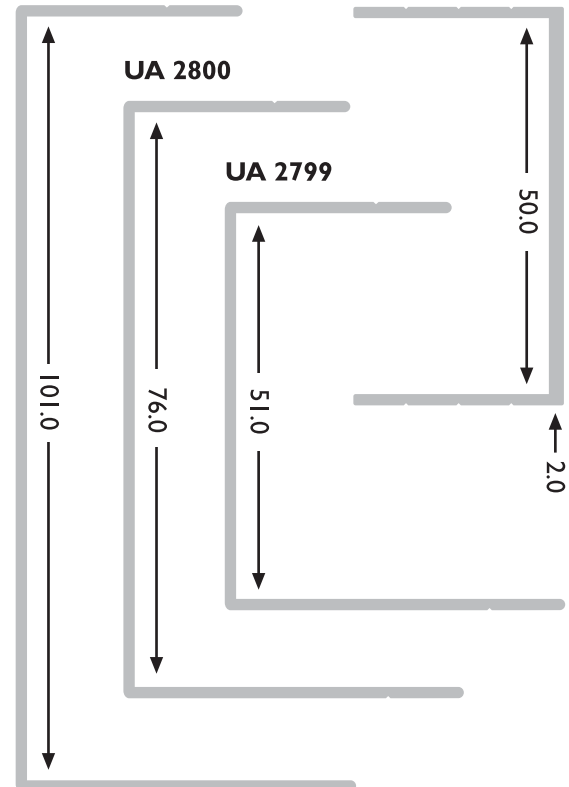
CHANNEL  
kg/m 0.361 P 205  
OAD 54 × 24.9

**UA 4255**

CHANNEL  
kg/m 1.295 P 326  
OAD 106 × 30 × 3.0

**UA 6878**

CHANNEL  
kg/m 0.399 P 207  
OAD 55 × 25 × 1.45

**UA 2622****UA 1504****UA 4255****UA 2801****UA 2895**

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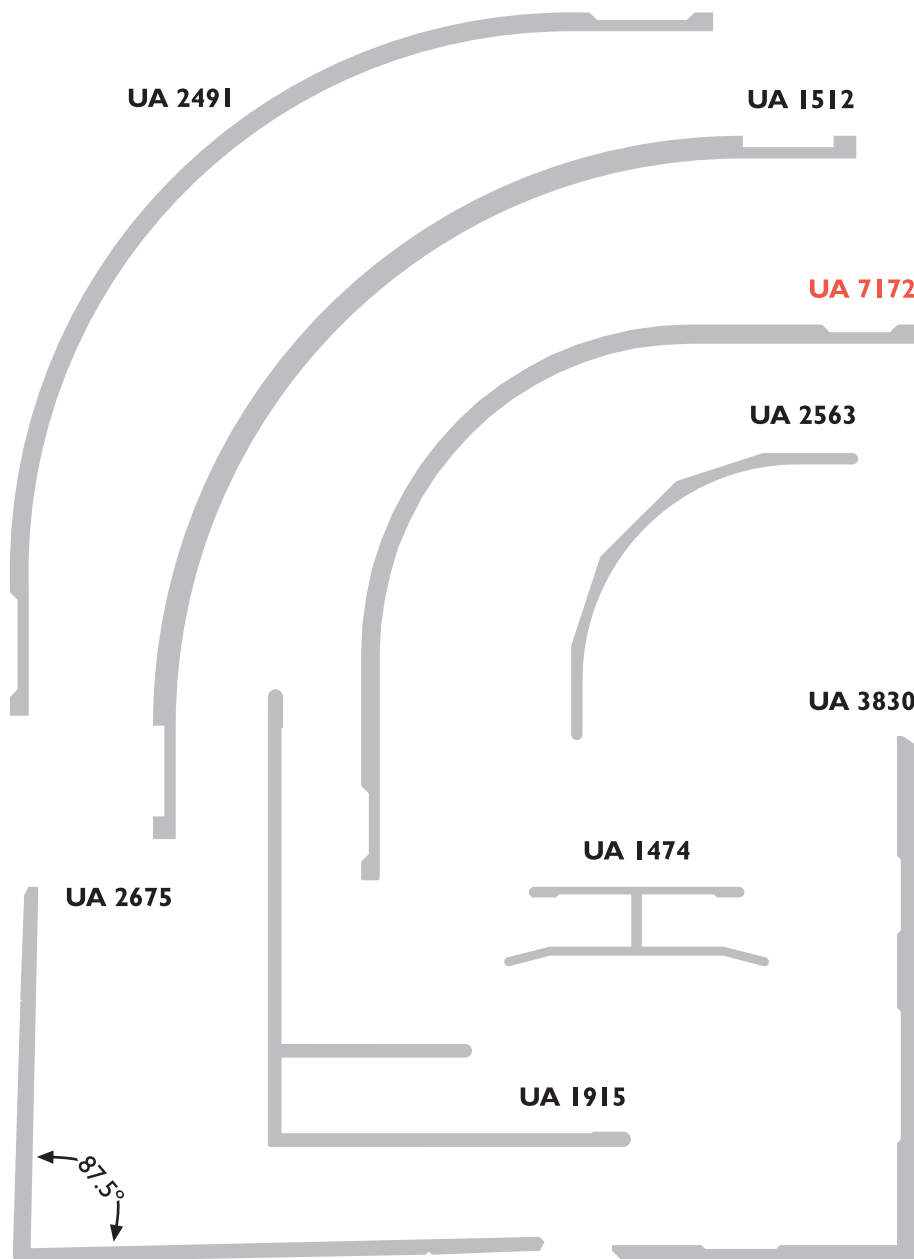
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**UA 1474**  
JOINTER  
kg/m 0.235 P 142  
OAD 35 x 10.5

**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

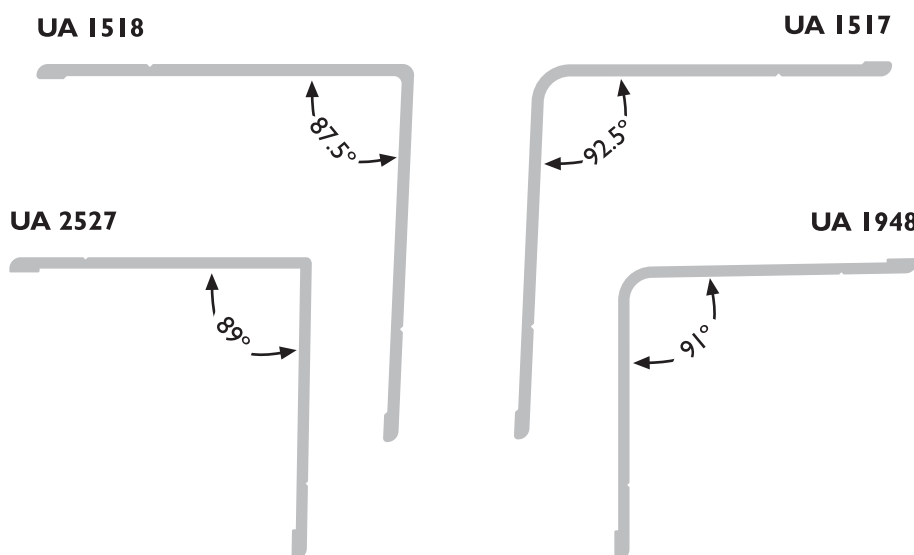
**UA 2527**  
EXTERNAL ANGLE  
kg/m 0.326 P 161  
OAD 40 x 40

**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 I505**

CHANNEL  
kg/m 0.411 P 192  
OAD 48.2 x 25 x 1.6

**UA I506**

CHANNEL  
kg/m 1.164 P 331  
OAD 118.4 x 25

**UA I523**

CHANNEL  
kg/m 1.549 P 429  
OAD 168 x 25

**UA I993**

SLIDING DOOR CHANNEL  
kg/m 2.507 P 452  
OAD 97 x 50

**UA I994**

SLIDING DOOR CHANNEL  
kg/m 1.123 P 340  
OAD 75 x 55.3

**UA 2526**

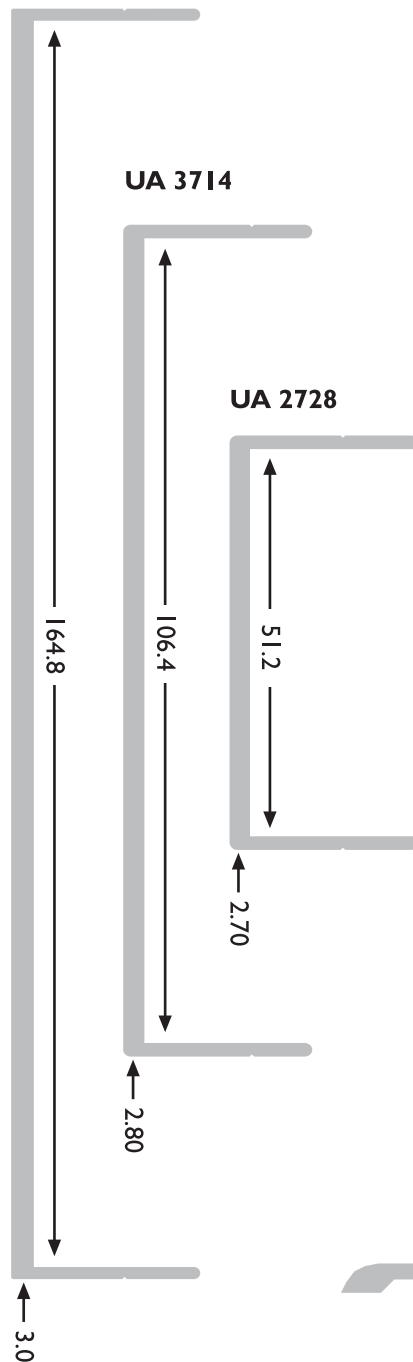
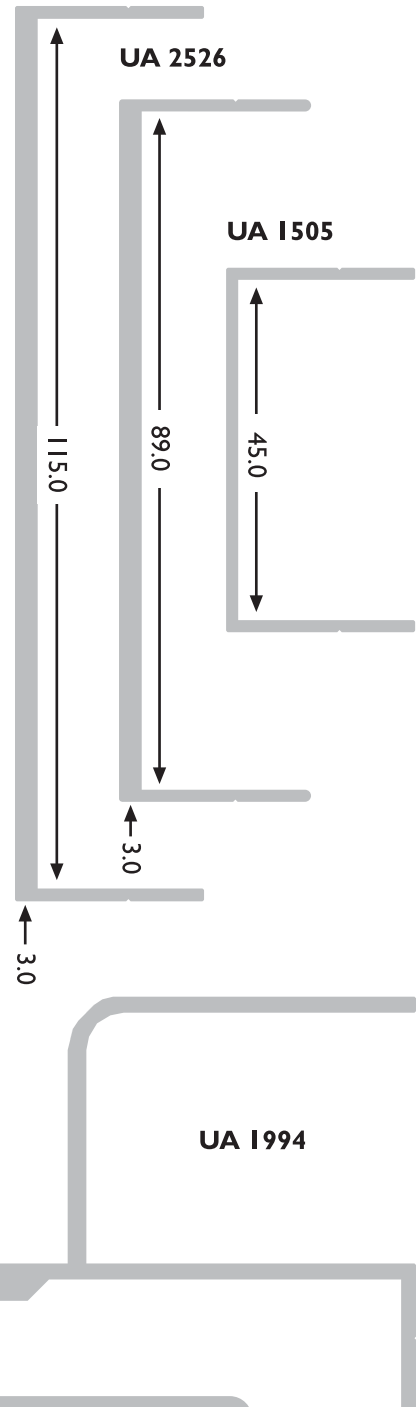
CHANNEL  
kg/m 0.938 P 279  
OAD 92.2 x 25.4

**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 I523****UA I506**

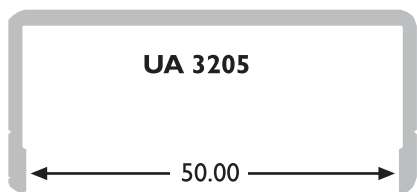
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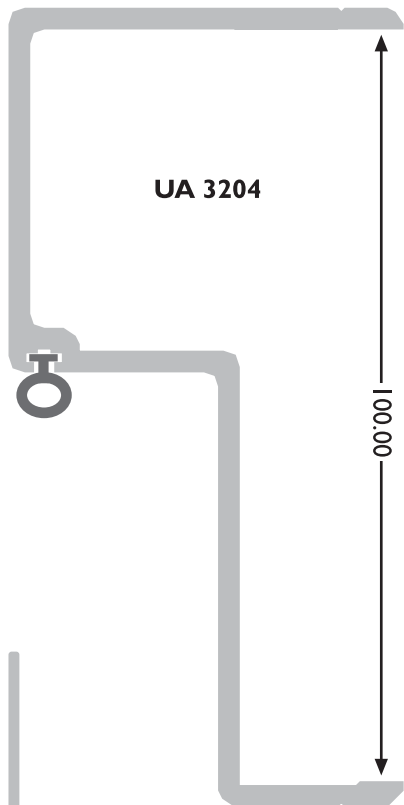
**MR = MILL RUN ONLY • NON-STOCKED ITEM • MINIMUM ORDER 200KG**

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



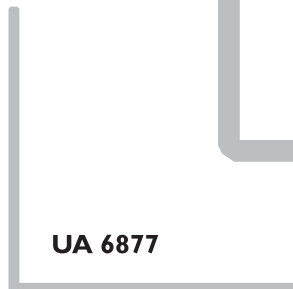
UA 3205

50.00

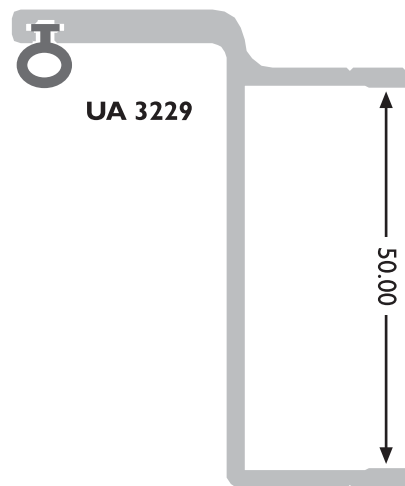


UA 3204

100.00

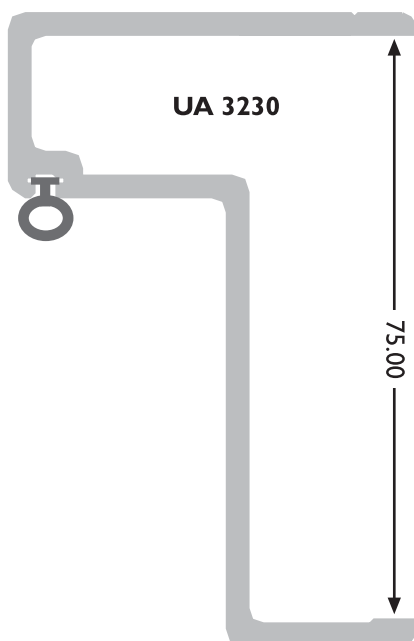


UA 6877



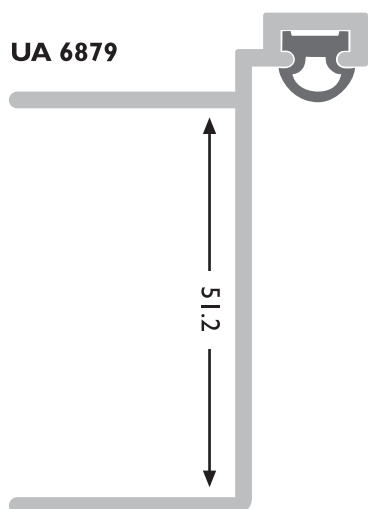
UA 3229

50.00



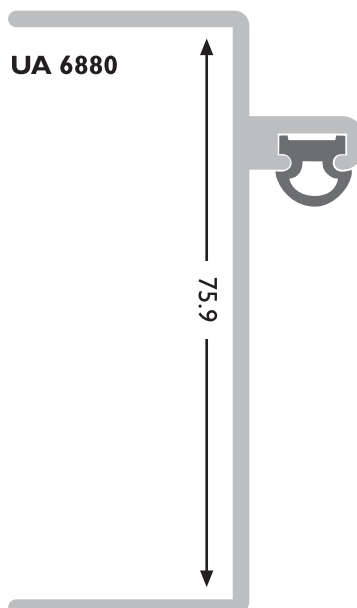
UA 3230

75.00



UA 6879

51.2



UA 6880

75.9

**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

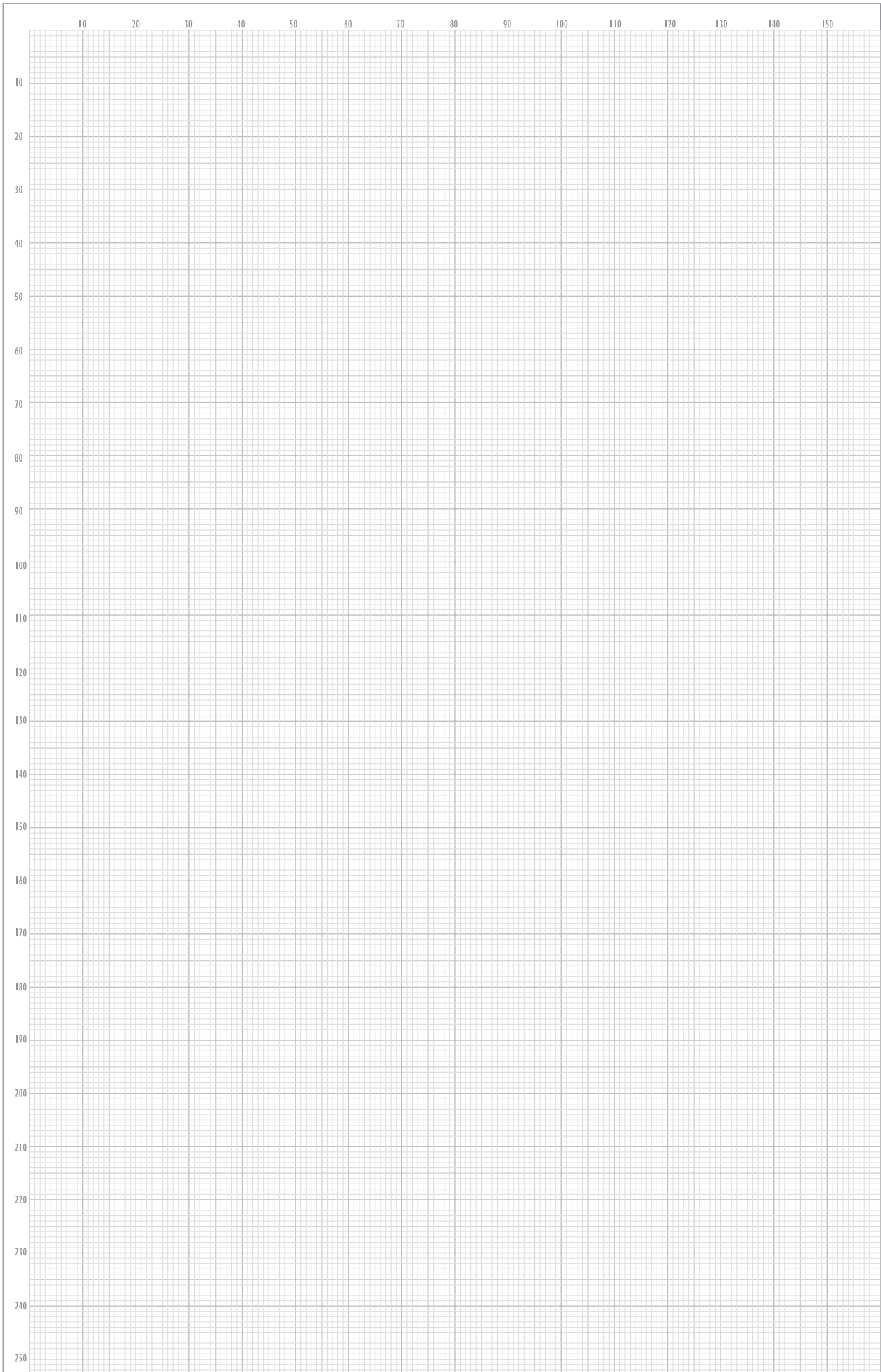
**INFILLS SOLD SEPARATELY**

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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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

---

NOTE: RED INDICATES  
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NON-STOCKED ITEM

MINIMUM ORDER  
QUANTITY 200KG

CONTACT YOUR LOCAL  
BRANCH TO ENQUIRE

---

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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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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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QUANTITY 200KG

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**UA I432**

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

**UA I433**

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

**UA I434**

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

**UA I435**

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

**UA I436**

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

**UA I437**

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

**UA I442**

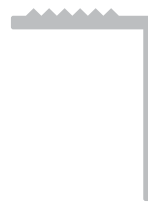
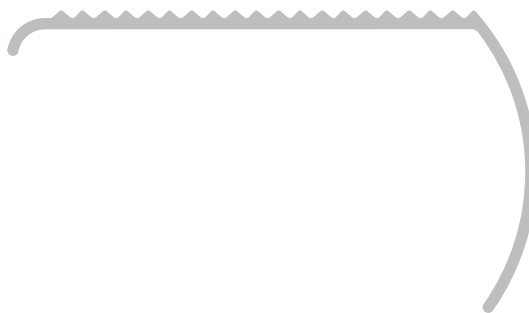
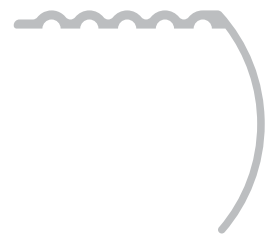
ANGLE Serrated  
kg/m 0.143 P 85  
OAD 20 x 20

**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 I442****UA I435****UA I437****UA 4403****UA I434****UA I432****UA I436****UA 2197****UA I433**

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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 1440

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

UA 1575



UA 1491



UA 2323



UA 1441

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

UA 5672



UA 5673



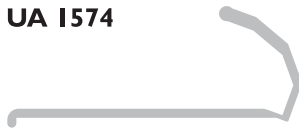
UA 1491

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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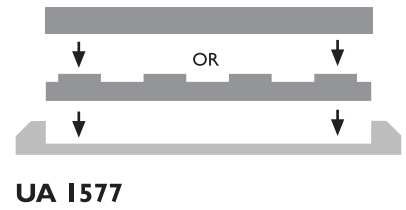
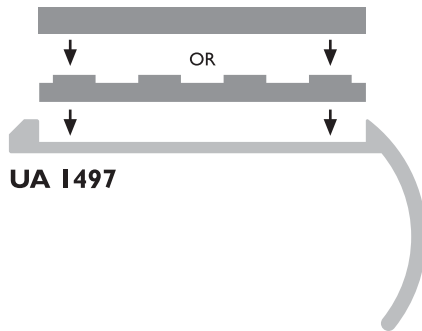


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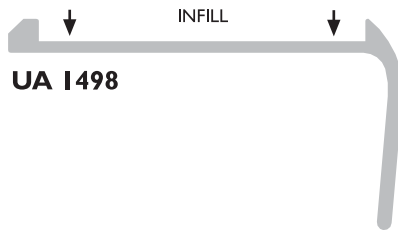
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**UA I495**  
 NOSING Double Round  
 kg/m 0.558 P 235  
 OAD 87.6 x 28



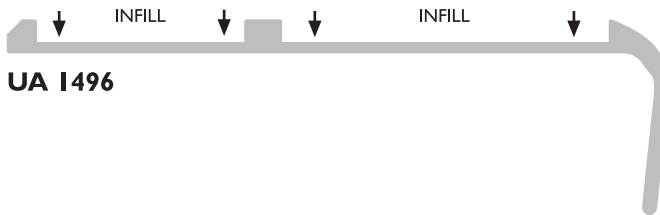
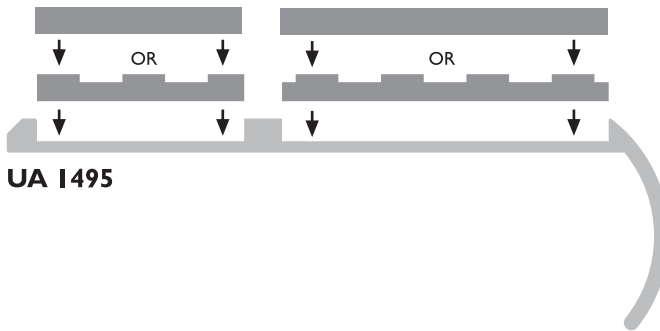
**UA I496**  
 NOSING Double Square  
 kg/m 0.566 P 234  
 OAD 87.6 x 28

**UA I497**  
 NOSING Single Round  
 kg/m 0.388 P 164  
 OAD 55.2 x 28



**UA I498**  
 NOSING Single Square  
 kg/m 0.378 P 160  
 OAD 52.2 x 28

**UA I577**  
 FLOORING BAR  
 kg/m 0.262 P 115  
 OAD 51.2 x 4.5



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



**WALKSAFE**

**AQUADEK**

AQUADEK  
 TOP VIEW

**INFILLS SOLD SEPARATELY**



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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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MINIMUM ORDER  
QUANTITY 200KG

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BRANCH TO ENQUIRE

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**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**

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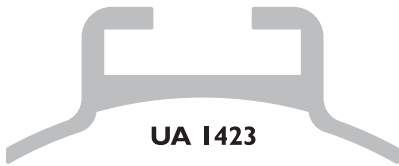
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UA 1425



UA 1424



UA 1423



UA 7177



UA 1422



UA 5237



UA 1421



UA 2785



UA 3418

UA 1420



UA 1416

UA 1418

UA 1419



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

UA 7177

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

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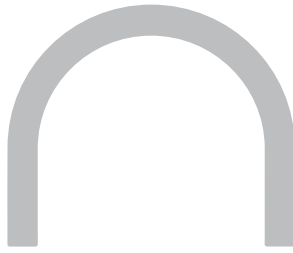
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**UA 1640**

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

**UA 1640****UA 3079****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 3943****UA 5236****UA 3079**

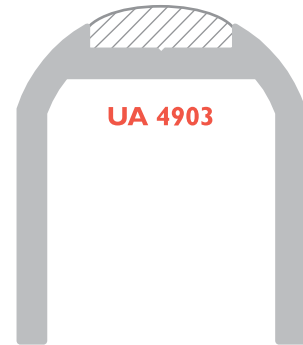
4-5-4mm GUNNEL  
kg/m 1.110 P 194  
OAD 50 x 35

**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 7072****UA 4903****UA 4903 (MR)**

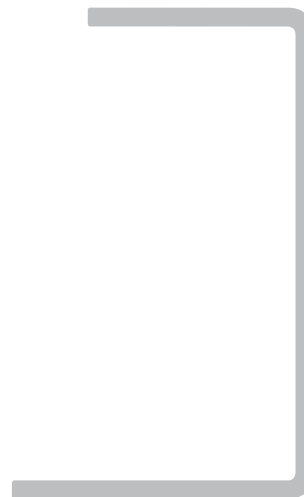
GUNNEL RAIL  
kg/m 1.109 P 222  
OAD 42.2 x 38  
Takes 19mm Timber Fillet  
( NOT AVAILABLE AT ULLRICH )

**UA 5236**

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

**UA 2907****UA 7072 (MR)**

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

**UA 3147****UA 2687**

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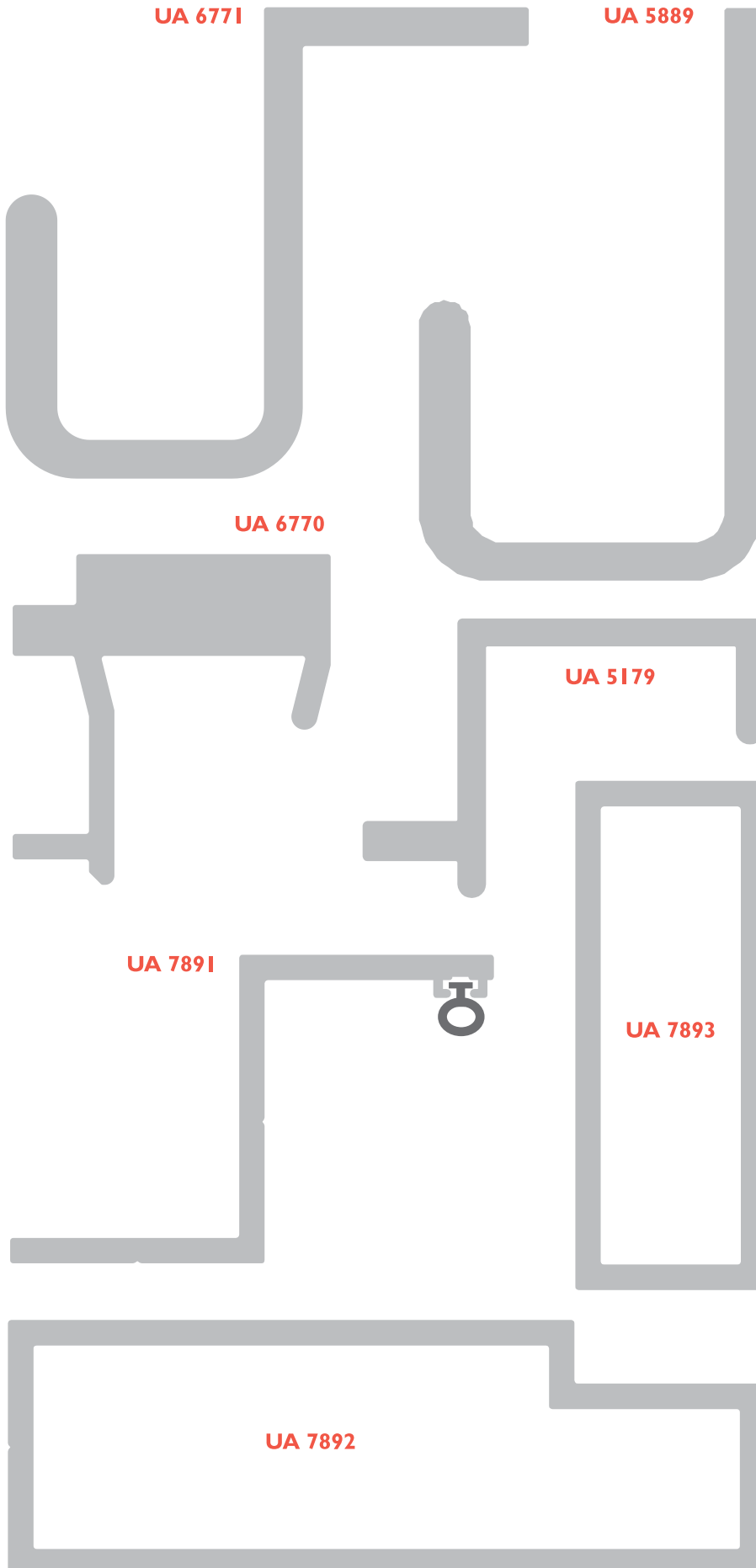
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**UA 5179 (MR)**  
HATCH SECTION  
kg/m 1.368 P 245  
OAD 63 x 45

**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**

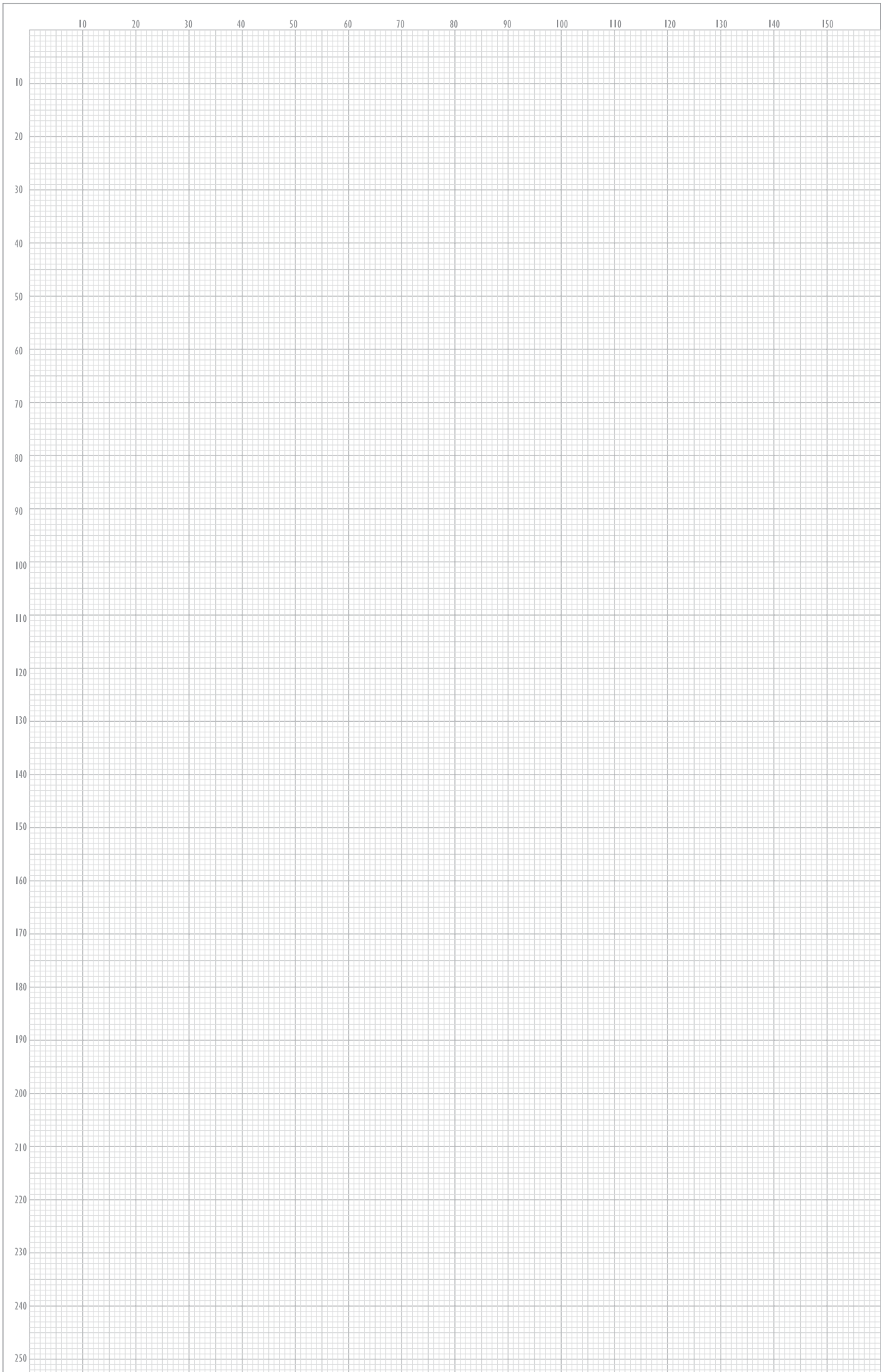
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DIE No	DESCRIPTION
UA 1406	DBL SIDED AWNING RAIL
UA 1407	AWNING DRIP RAIL
UA 1408	LIGHT AWNING RAIL
UA 1409	DRIP RAIL
UA 1410	DRIP RAIL
UA 1411	LIGHT BUS DRIP RAIL
UA 1412	DRIP RAIL
UA 1413	HEAVY BUS DRIP RAIL
UA 1414	DRIP RAIL
UA 1417	RUB RAIL
UA 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

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QUANTITY 200KG

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**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**

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.

**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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**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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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

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

MINIMUM ORDER  
QUANTITY 200KG

CONTACT YOUR LOCAL  
BRANCH TO ENQUIRE

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**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**

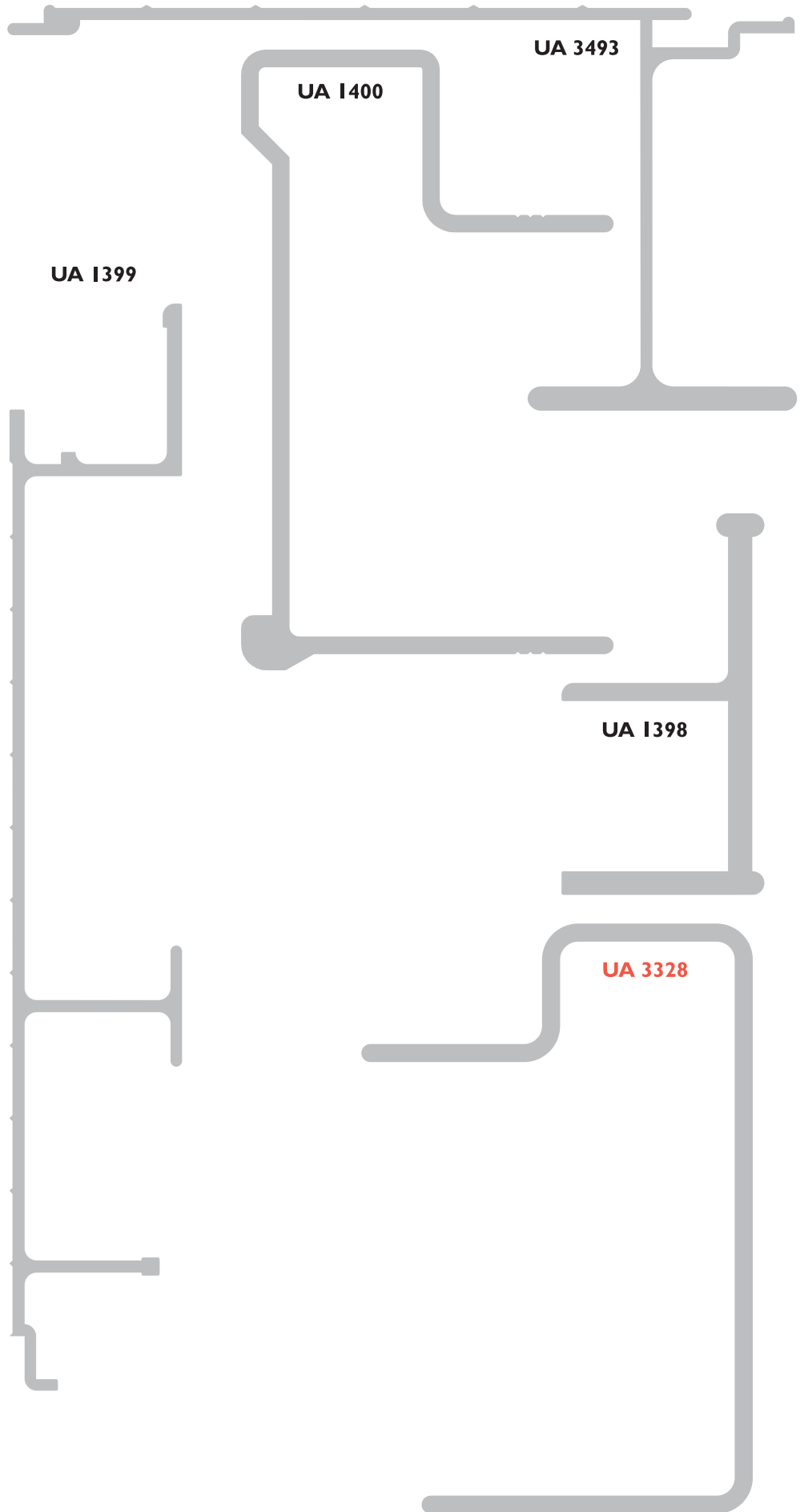
SIDE RAIL  
kg/m 1.670 P 490  
OAD 102 x 61

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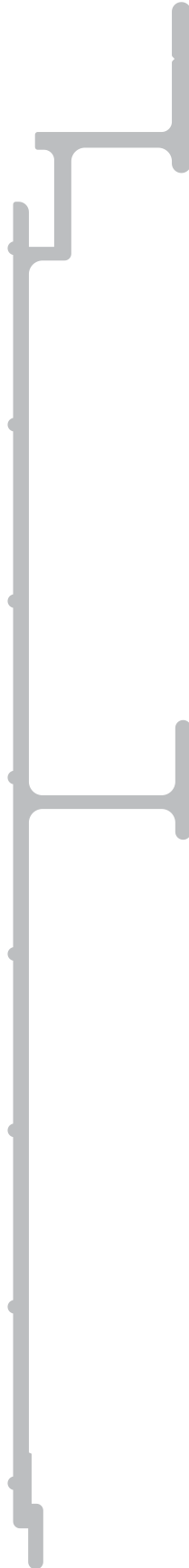
**NOTE:** Not all products are available ex-stock, check with your local branch for advice on availability.



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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**UA 1494**

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

**UA 1510**

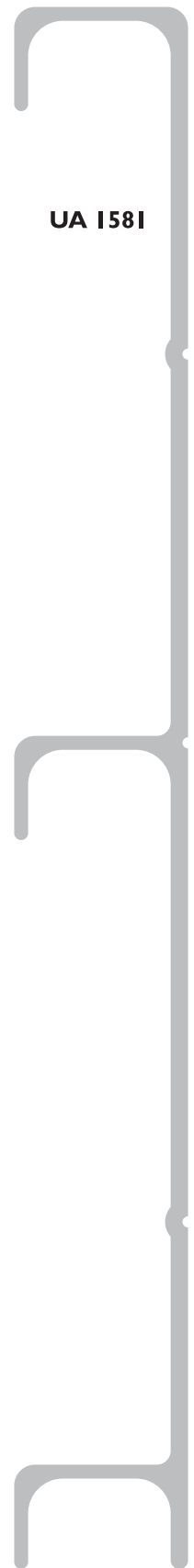
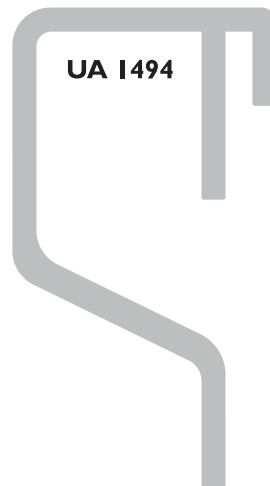
SCALLOP PLANK  
 kg/m 1.409 P 421  
 OAD 190.5 x 9.53

**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**

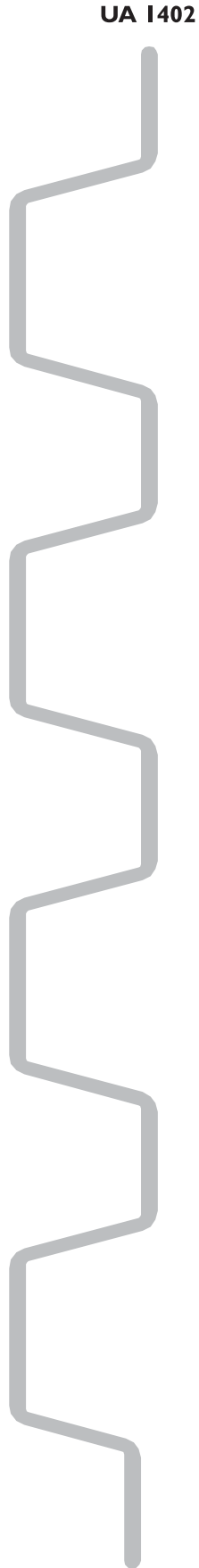
DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED.  
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**UA 1402**  
 PLANK  
 kg/m 2,060 P 678  
 OAD 226 x 22

**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

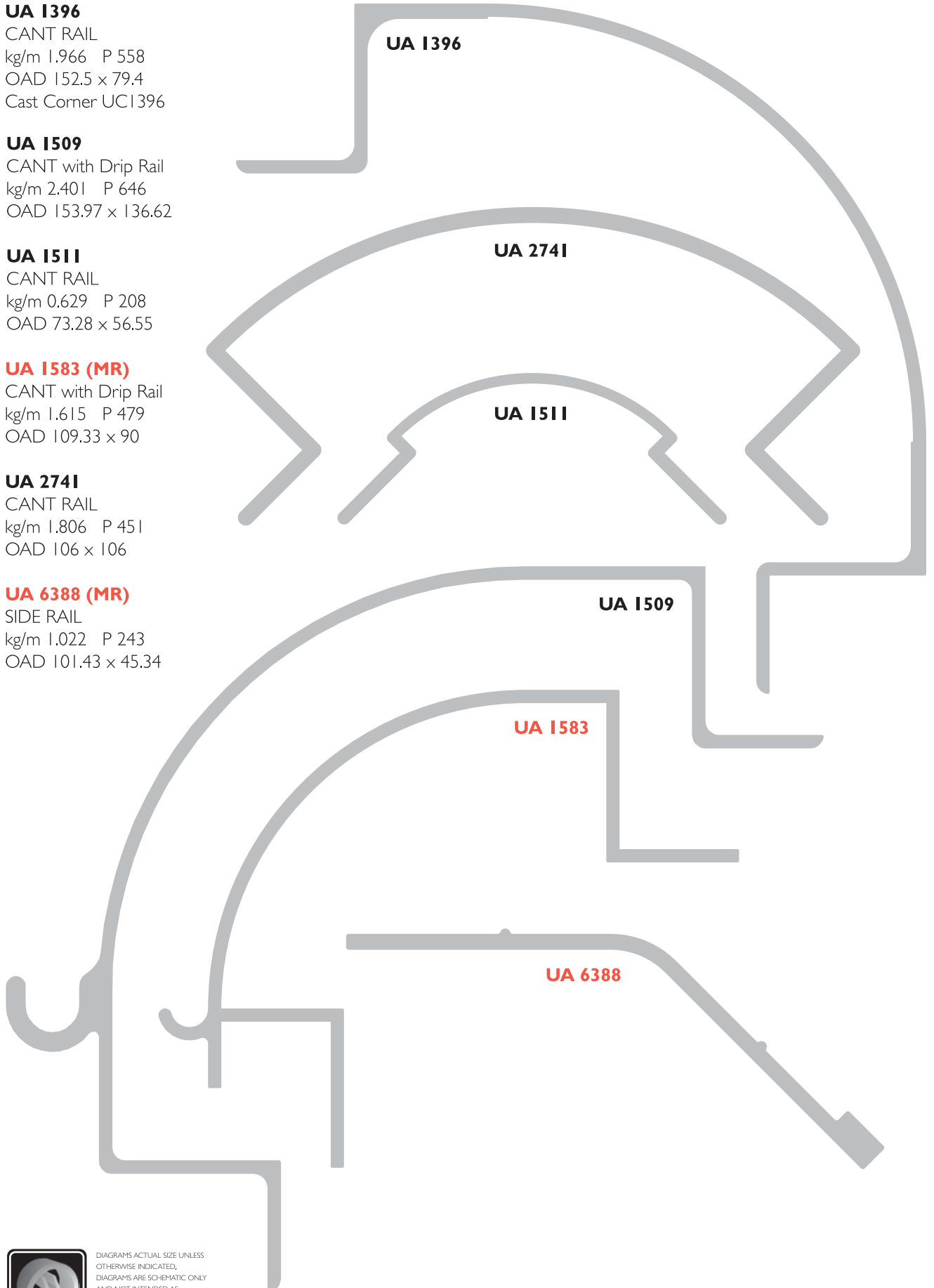
OAD 106 x 106

**UA 6388 (MR)**

SIDE RAIL

kg/m 1.022 P 243

OAD 101.43 x 45.34



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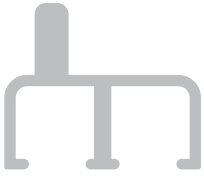
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UA 1395



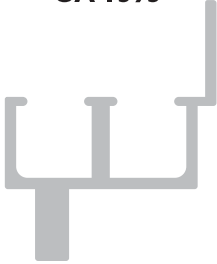
UA 1404



UA 6784



UA 1393



UA 1573



**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

**PLASTIC ROLLER  
DOOR GLIDE**

Code: TRAROLLDOORGL



Fits 1404

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

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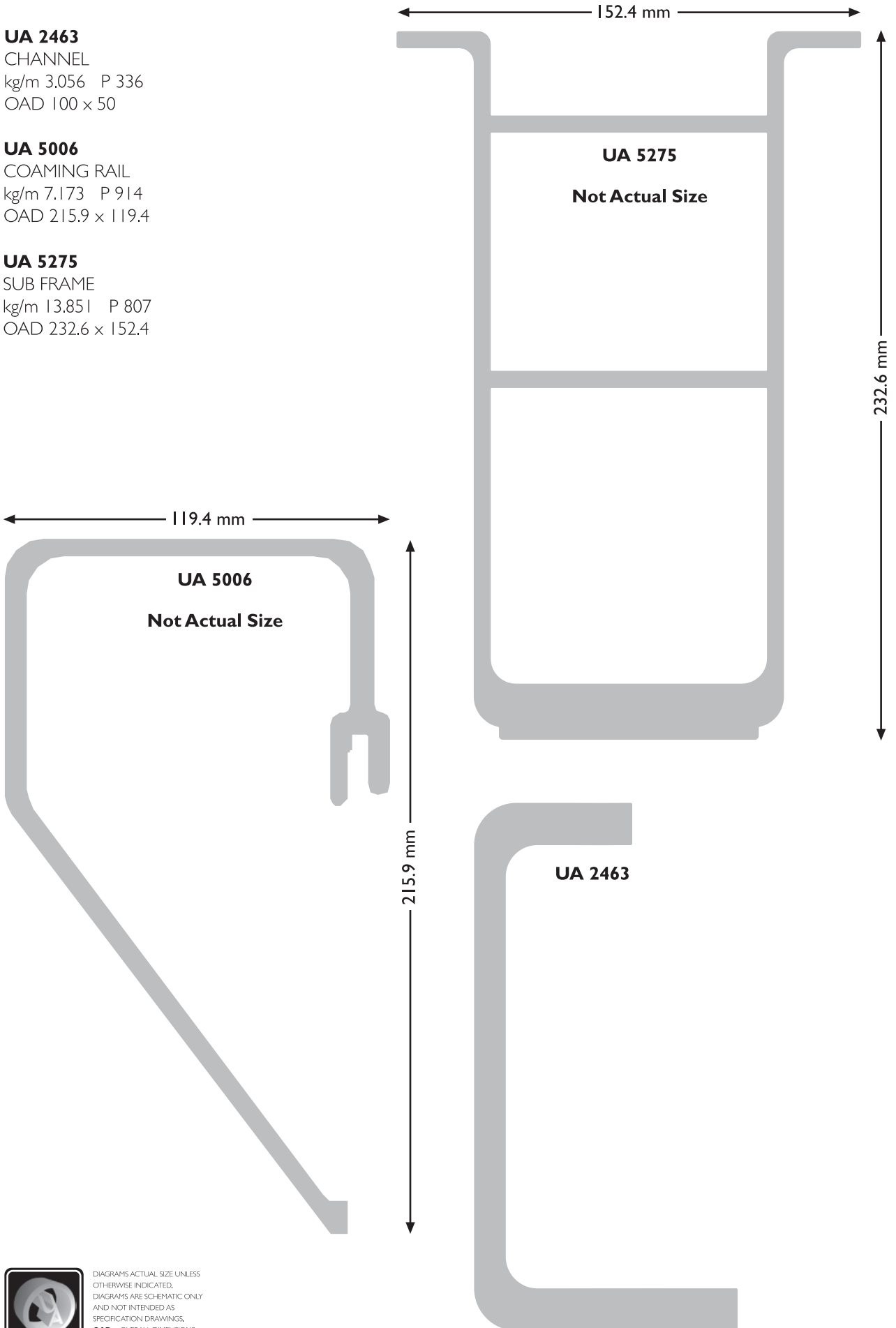
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**UA 2463**  
CHANNEL  
kg/m 3.056 P 336  
OAD 100 x 50

**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

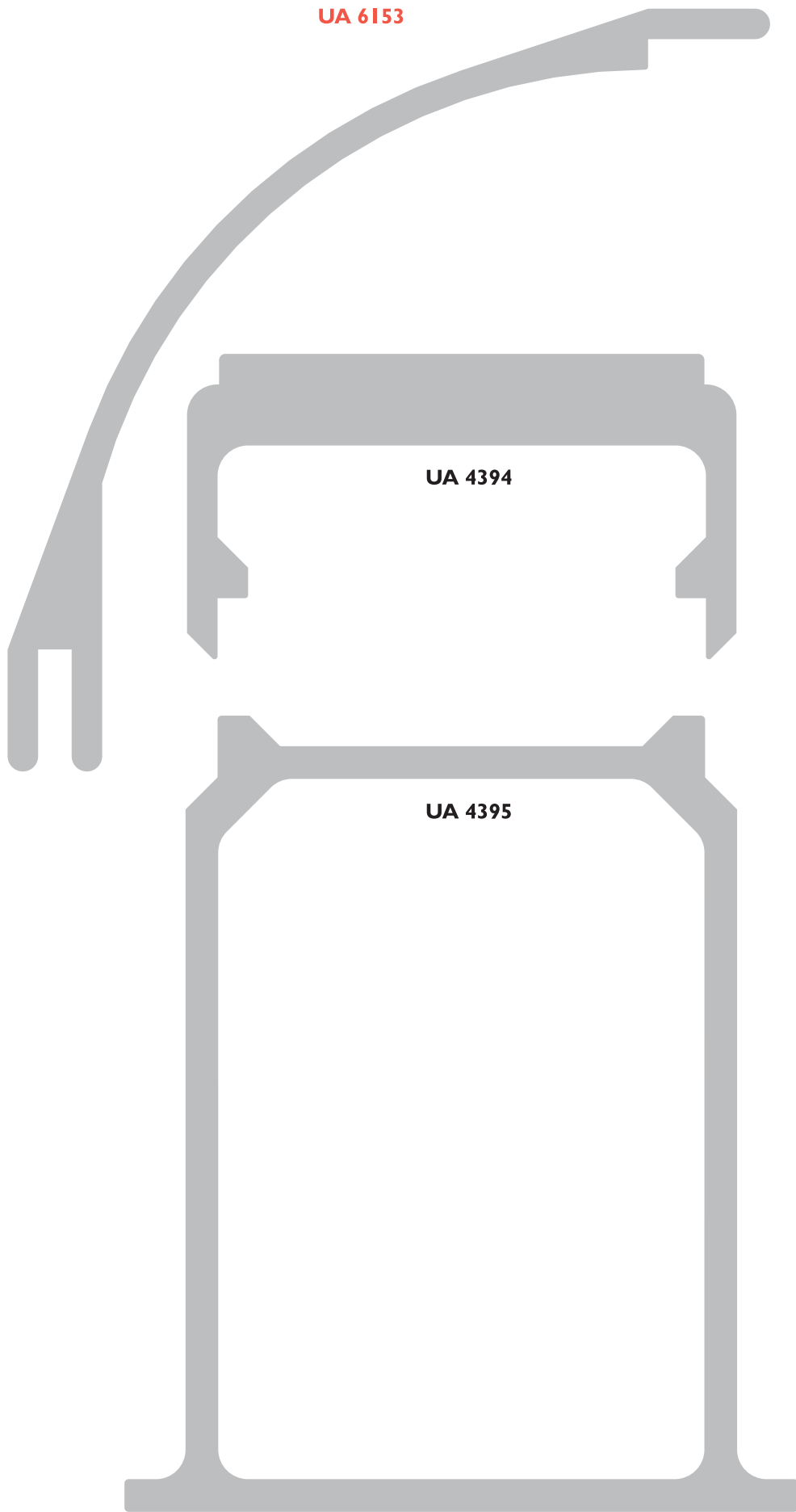
**UA 4711 (MR)**

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

**UA 4394**

**UA 4395**

**UA 4711**



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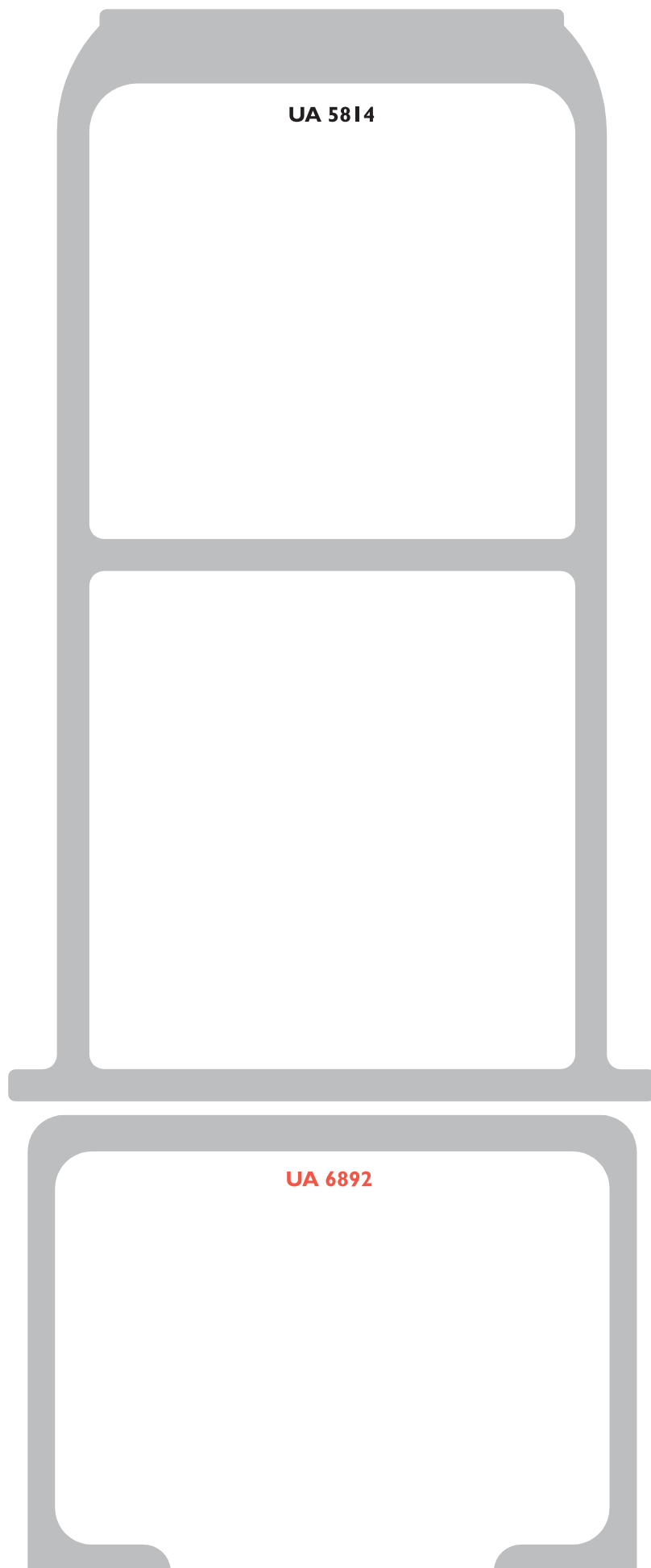
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**UA 5814**

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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Edition 18 - 2021

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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

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NON-STOCKED ITEM

MINIMUM ORDER  
QUANTITY 200KG

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BRANCH TO ENQUIRE

DIAGRAMS ACTUAL SIZE UNLESS  
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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 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 4406



UA 7829



UA 4413



UA 4409



**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 1628



UA 1629



UA 3467



**UA 4409**

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

**UA 1628**

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

UA 1472



**UA 1629**

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

**UA 1472 (MR)**

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

UA 1473



**UA 1473**

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

**INFILLS SOLD SEPARATELY**

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**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**

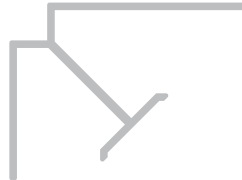
4.5mm AQUAPANEL SCOTIA  
kg/m 0.138 P 86  
OAD 18.4 x 15.1

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

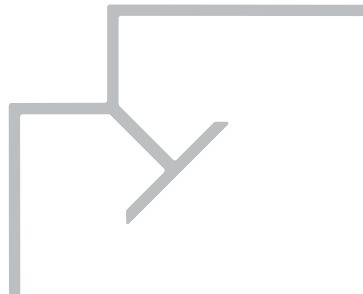
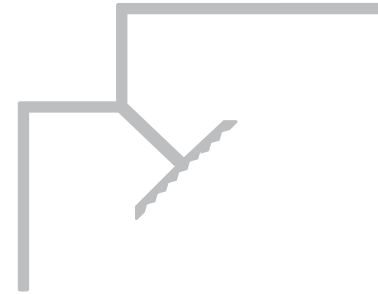
5mm INT CORNER  
kg/m 0.147 P 111  
OAD 23.5 x 18

**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**

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 1454**



**UA 3873**



**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**



**UA 1459**



**UA 4407**



**UA 1458**

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

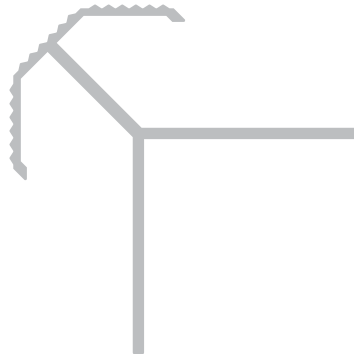
**UA 1459**

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

**UA 7828**



**UA 4410**



**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



**UA 6887**

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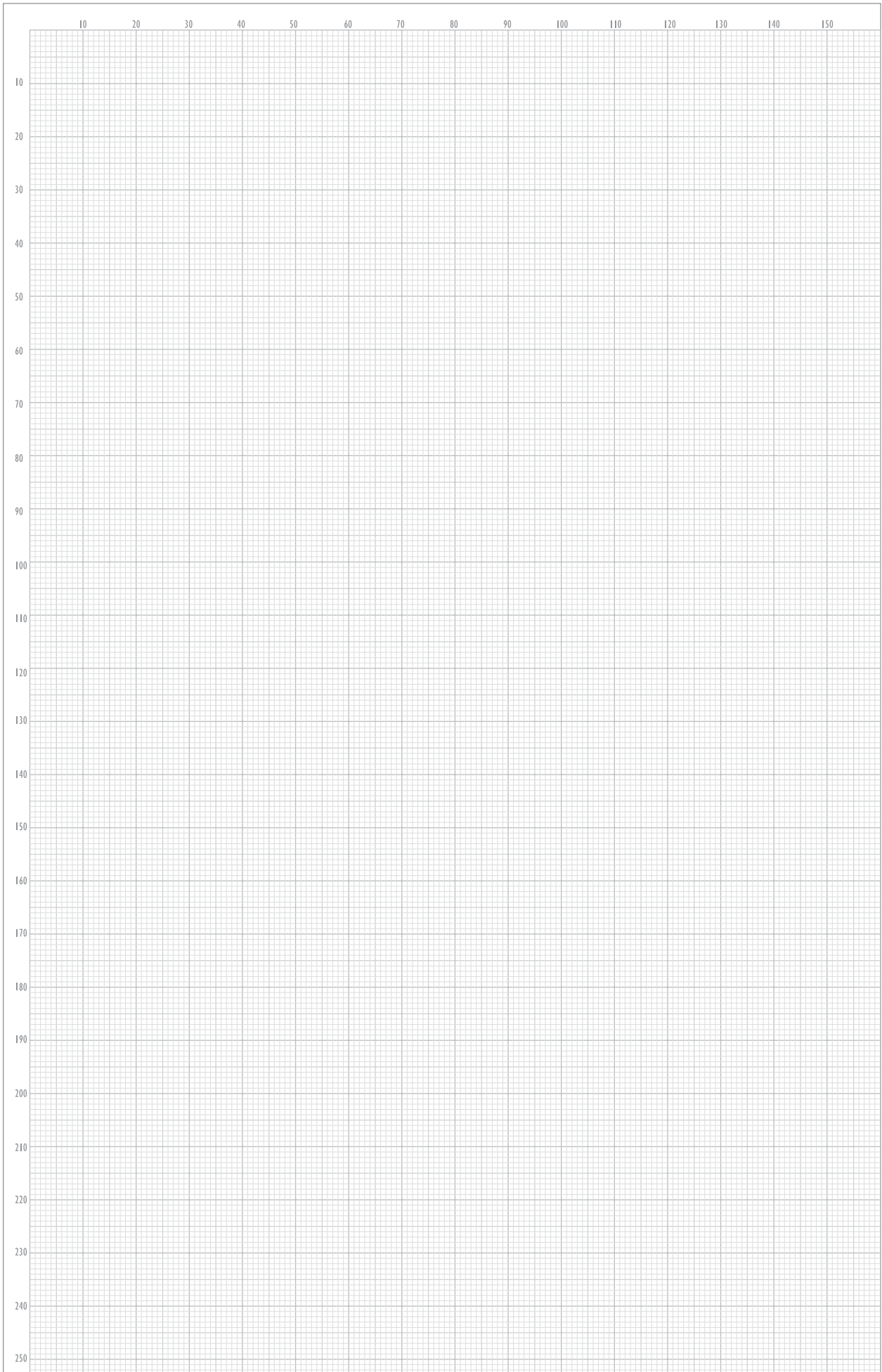


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DIE No	DESCRIPTION
UA 1513	STAKE
UA 1642	SQUARE HOLLOW
UA 5633	STAKE
UA 7948	4mm SIGN PANEL CAP
UA 7949	4mm SIGN PANEL JOINTER
UA 7950	4mm SIGN PANEL INT CORNER
UA 7951	4mm SIGN PANEL EXT CORNER
UA 7988	4mm SIGN PANEL ANGLE CHANNEL
UA 7989	4mm SIGN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

---

NOTE: RED INDICATES  
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MINIMUM ORDER  
QUANTITY 200KG

CONTACT YOUR LOCAL  
BRANCH TO ENQUIRE

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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**

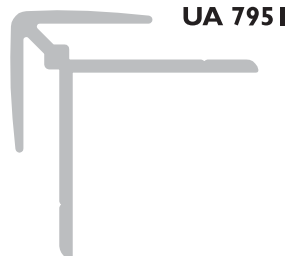
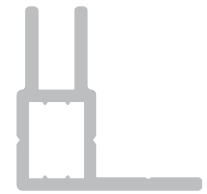
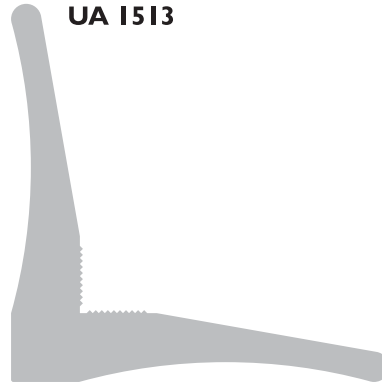
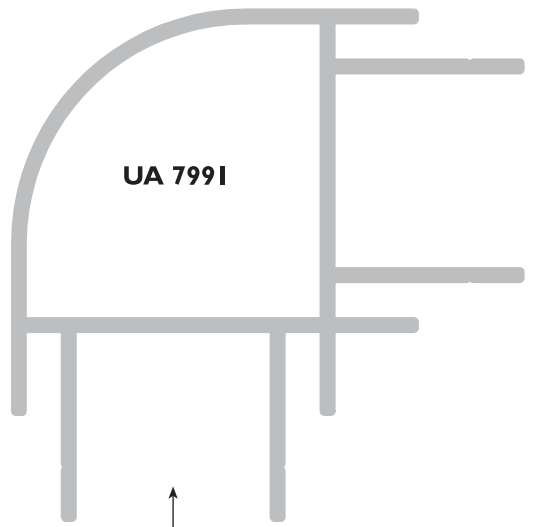
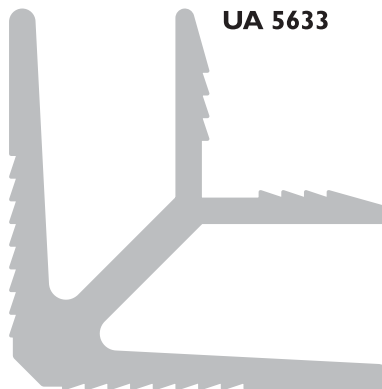
4mm SIGN PANEL TEE CHANNEL  
kg/m 0.367 P 146  
OAD 38.3 x 24.1

**UA 7990**

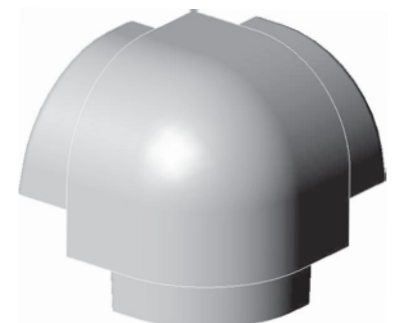
4mm SIGN PANEL FRAME  
kg/m 0.481 P 125  
OAD 32 x 20.5

**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 7989****UA 7988****UA 7990****UA 1513****UA 7991****UA 1642****UA 5633****UCI508 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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NON-STOCKED ITEM

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

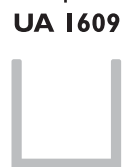
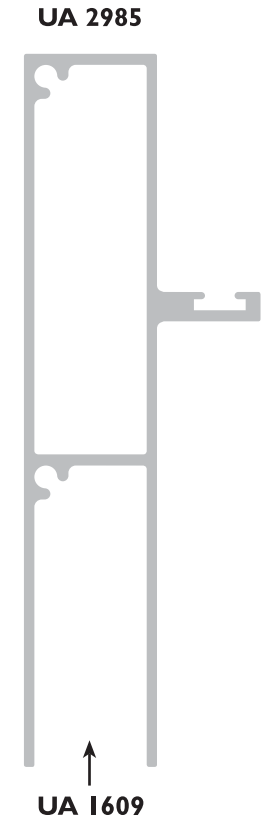
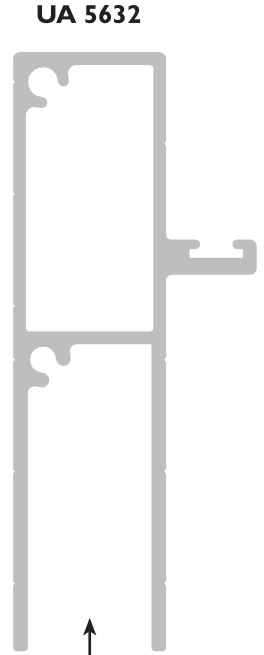
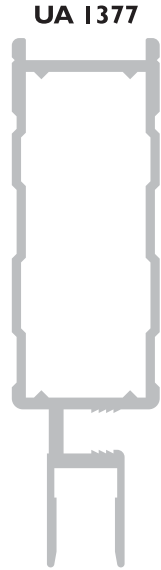
**UA 2985**  
 JAMB EXTENSION  
 kg/m 1.011 P 353  
 OAD 97 x 32

**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



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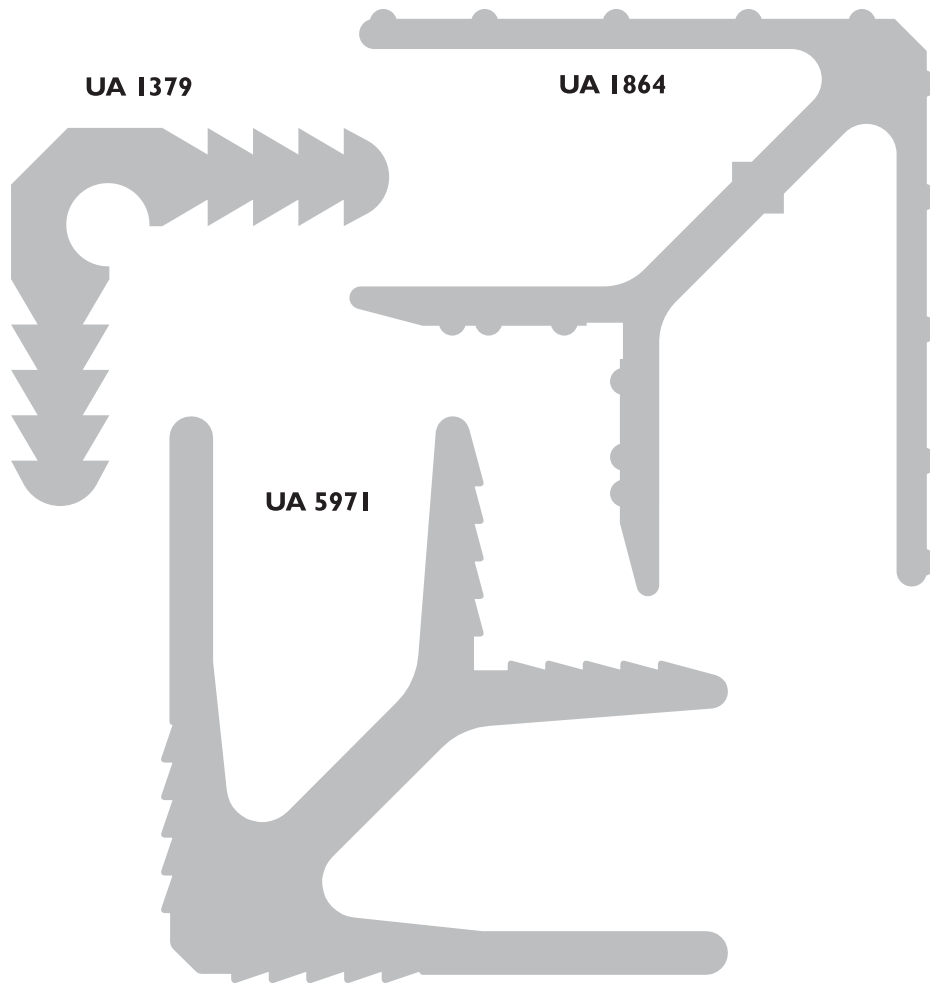
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**UA 5632**  
 JAMB EXTENSION  
 kg/m 1.050 P 318  
 OAD 79 x 32

**UA 5655**  
 DOOR FRAME  
 kg/m 0.763 P 230  
 OAD 71.6 x 19

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**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**

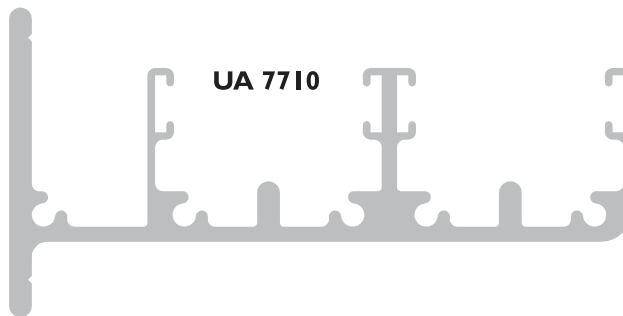
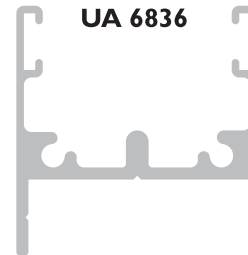
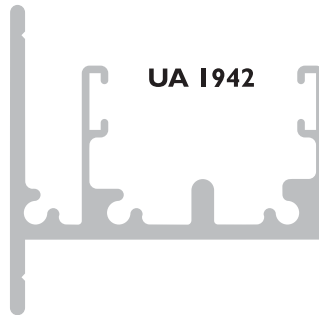
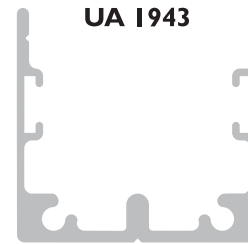
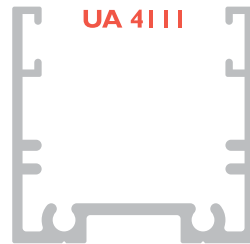
DOOR TRACK  
kg/m 0.477 P 216  
OAD 33 x 32

**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

**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

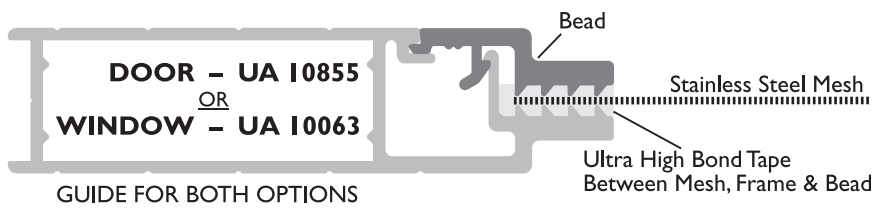
**UA 10064**

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

**FABRICATION GUIDE**



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

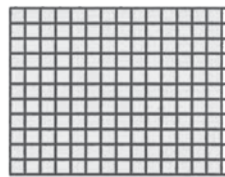
**BLACK PLASTIC INTERNAL BEAD CORNERS**



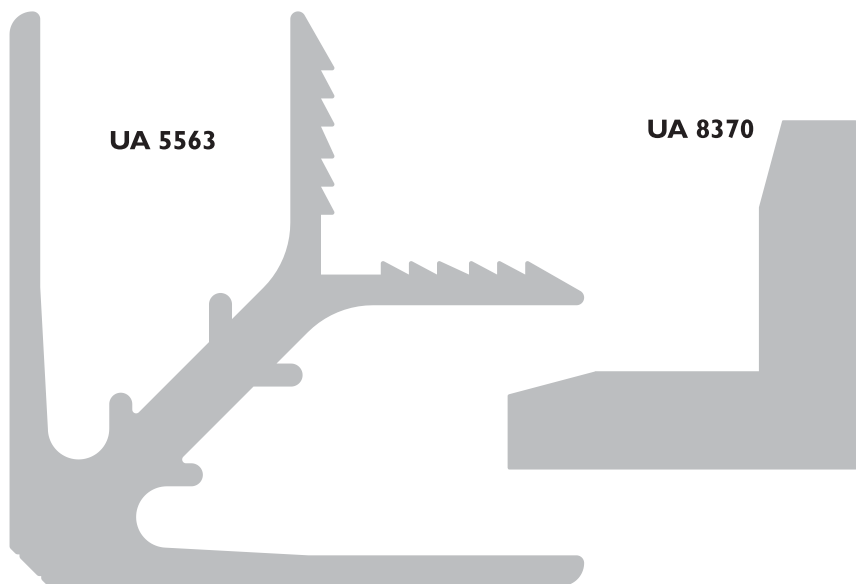
DOOR CORNER  
Fits 10062  
Code: SECUSUA40BLK



WINDOW CORNER  
Fits 10064  
Code: SECUSUA20BLK



STAINLESS STEEL MESH  
GRADE 316, 0.8mm



**PLEASE NOTE:**

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

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**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

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MINIMUM ORDER  
QUANTITY 200KG

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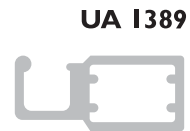
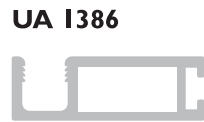
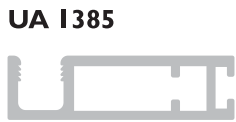
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**UA 1054**  
WINDOW FRAME  
kg/m 0.331 P 124  
OAD 34 x 21



**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 1385**  
DOOR FRAME  
kg/m 0.278 P 104  
OAD 30 x 8.5

**UA 1054**



**UA 1609**



**UA 1355**



**UA 1386**  
WINDOW FRAME  
kg/m 0.237 P 95  
OAD 25.5 x 8.5

**UA 1388**  
DOOR FRAME  
kg/m 0.318 P 109  
OAD 38 x 10

**UA 5636**



**UA 5637**



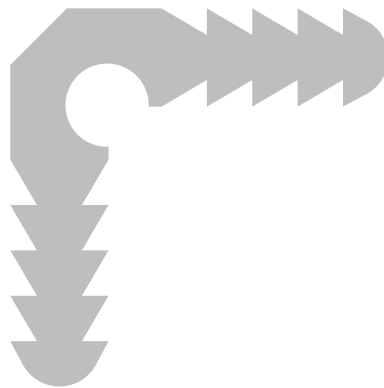
**UA 5638**



**UA 1389**  
WINDOW SECTION  
kg/m 0.234 P 76  
OAD 22.4 x 10

**UA 1513**  
STAKE ( green ) fits 1054,1389,1610  
kg/m 1.416 P 196  
OAD 50 x 50

**UA 1379**



**UA 1513**



**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

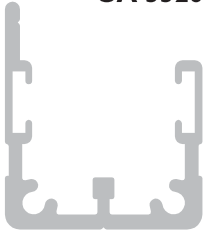
**UA 1383**

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

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

**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 7788	BLADE PANEL

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

MINIMUM ORDER  
QUANTITY 200KG

CONTACT YOUR LOCAL  
BRANCH TO ENQUIRE

**NB: 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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**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**

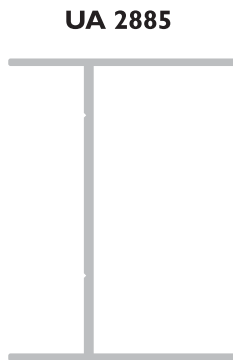
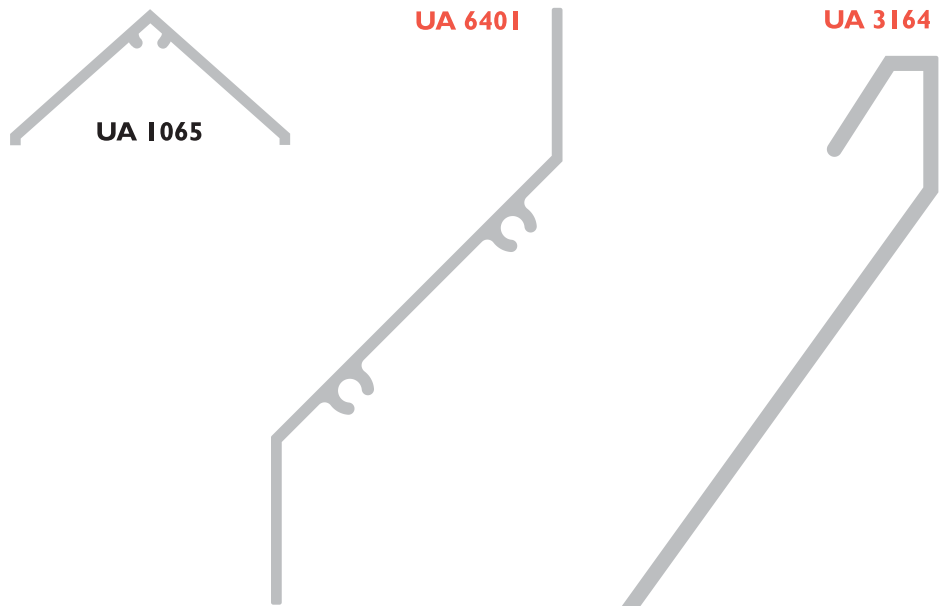
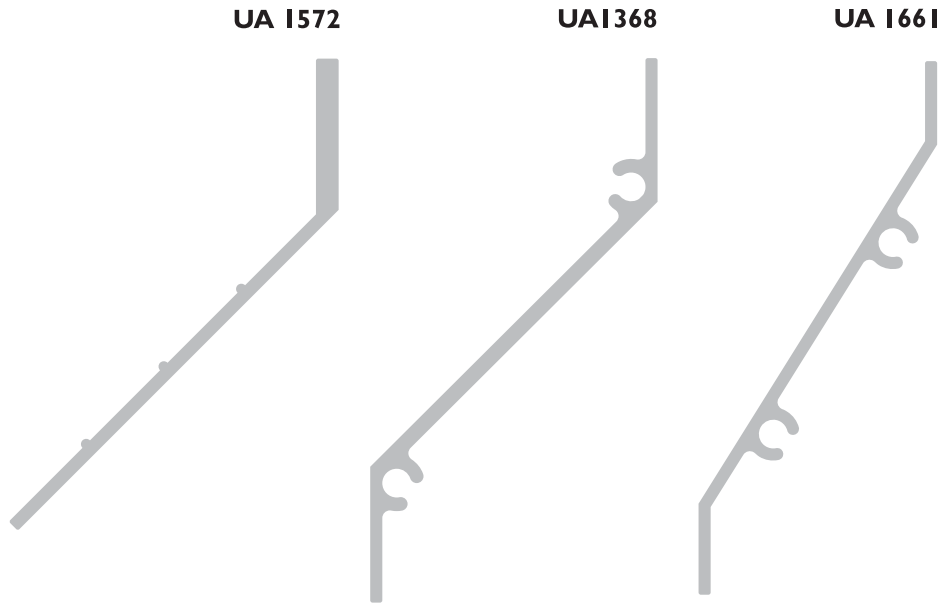
38mm FRAME  
kg/m 0.296 P 197  
OAD 40 x 30

**UA 3164 (MR)**

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

**UA 6401 (MR)**

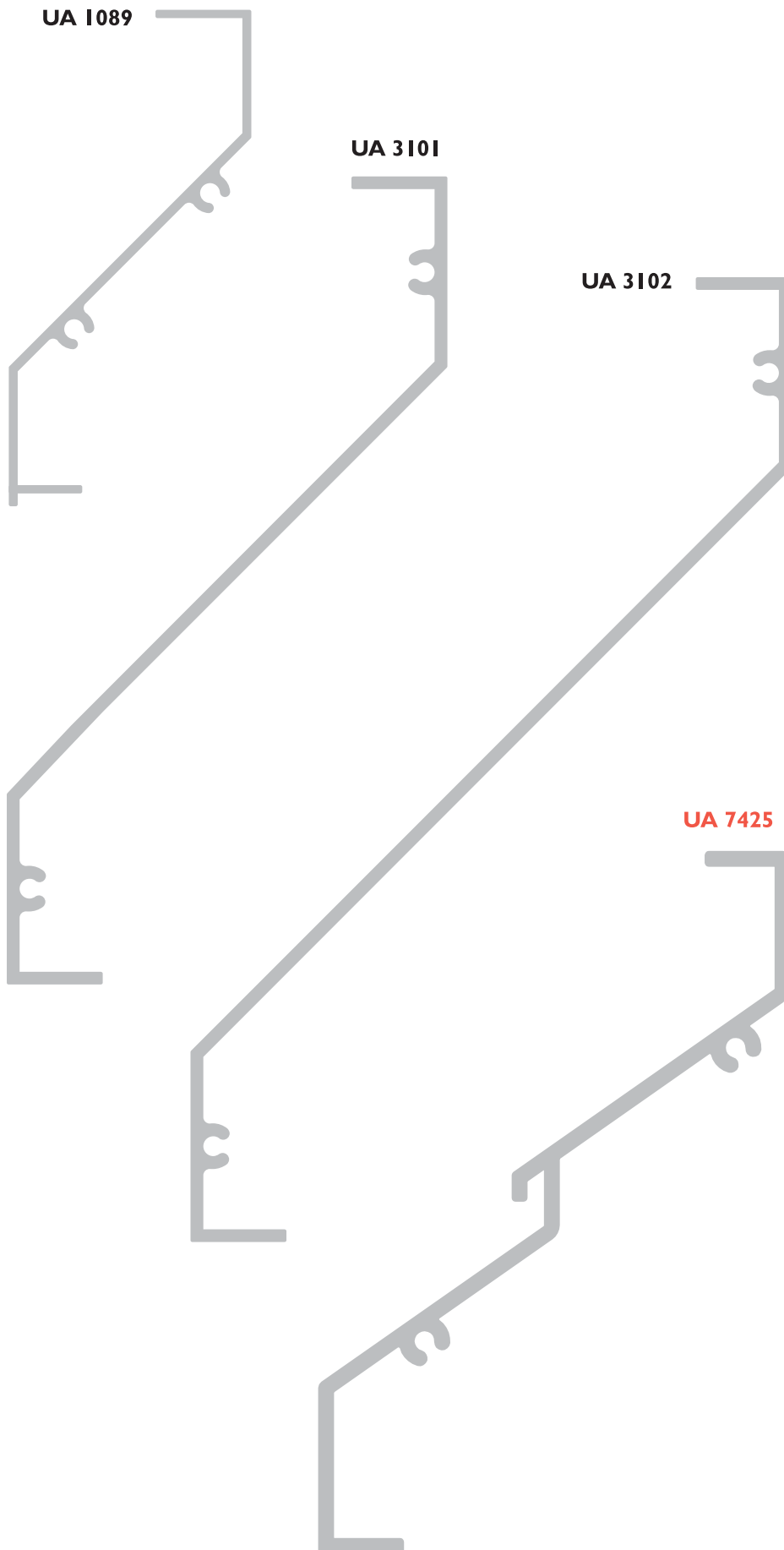
38mm BLADE  
kg/m 0.439 P 214  
OAD 77.8 x 38



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**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****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

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**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**



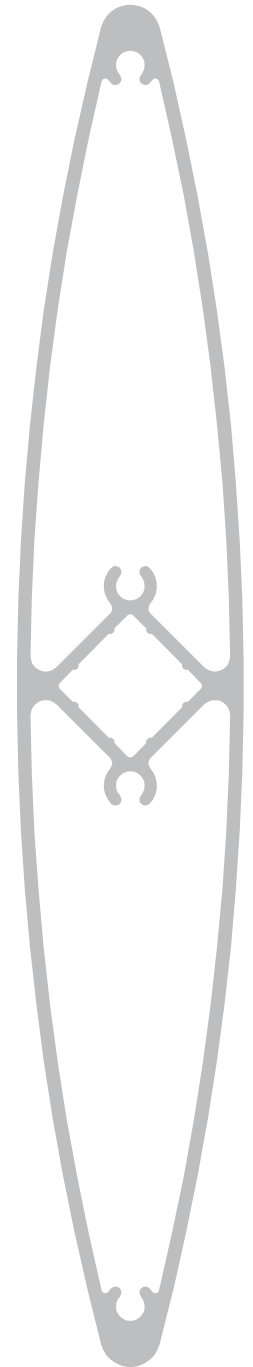
**UA 5355**



**UA 5354**



**UA 6758**

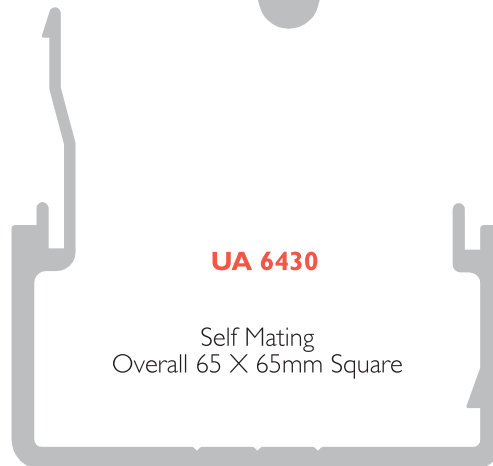


**UA 6860**



**UA 6430**

Self Mating  
 Overall 65 X 65mm Square



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UA 7198



UA 7613



UA 6856



UA 7694



UA 7452



UA 7461

**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

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**UA 5032 (MR)**

BRACKET

kg/m 1.556 P 334

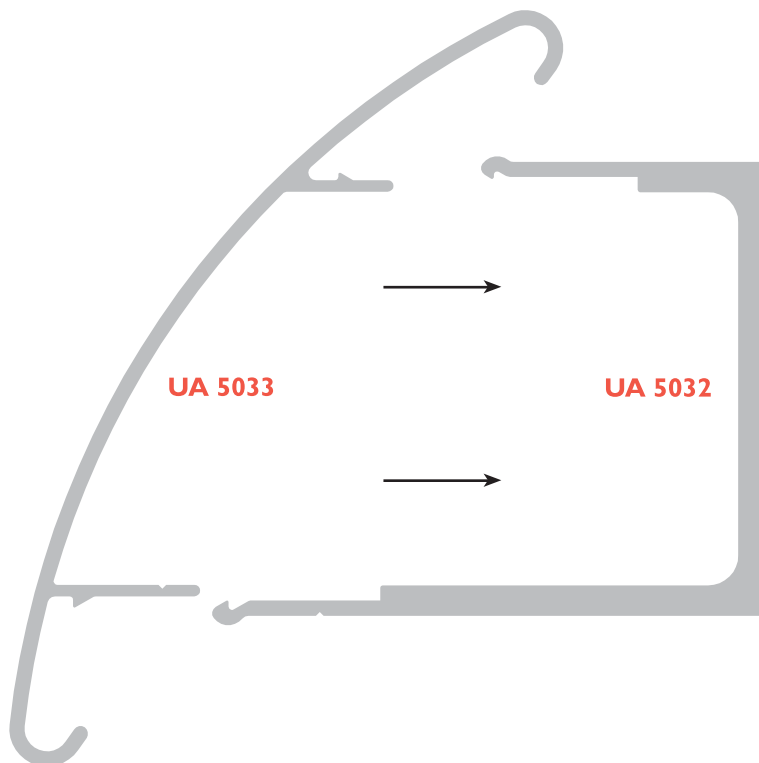
OAD 73.57 x 60

**UA 5033 (MR)**

SUN BLADE

kg/m 0.932 P 359

OAD 100 x 73.25



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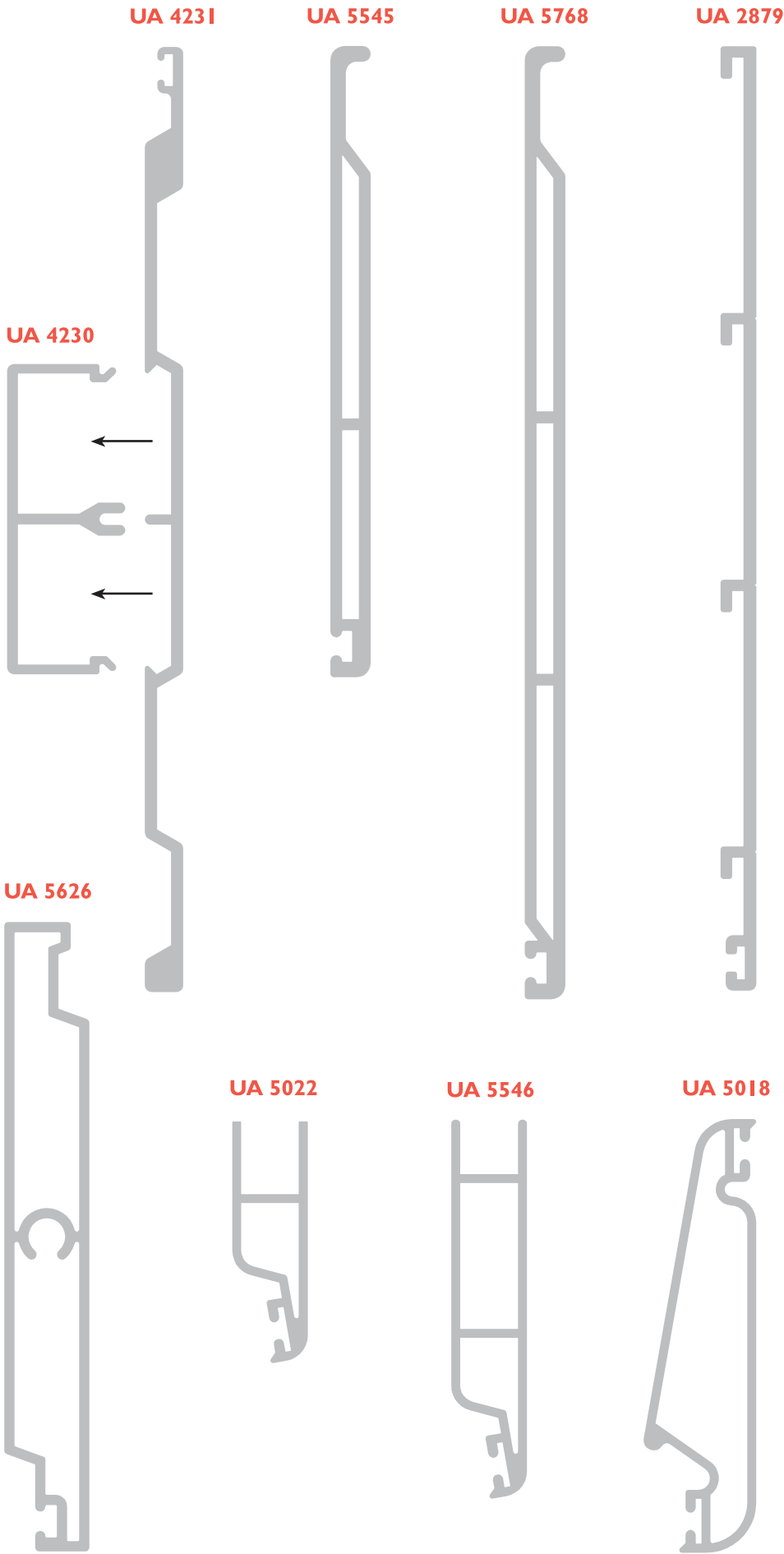
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**UA 2879 (MR)**  
BLADE  
kg/m 0,891 P 379  
OAD 152 x 5,5

**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

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**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)**

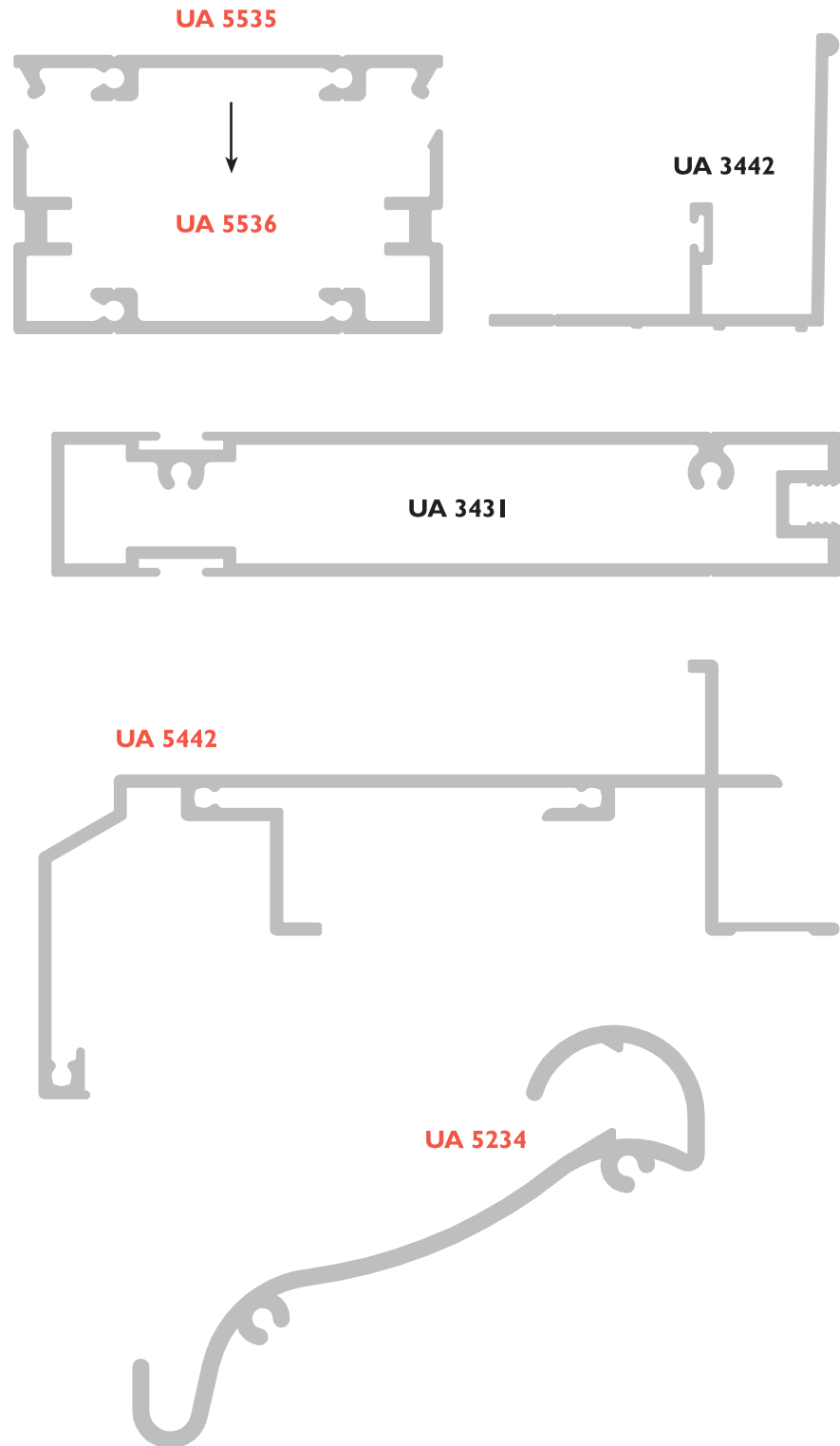
FRAME

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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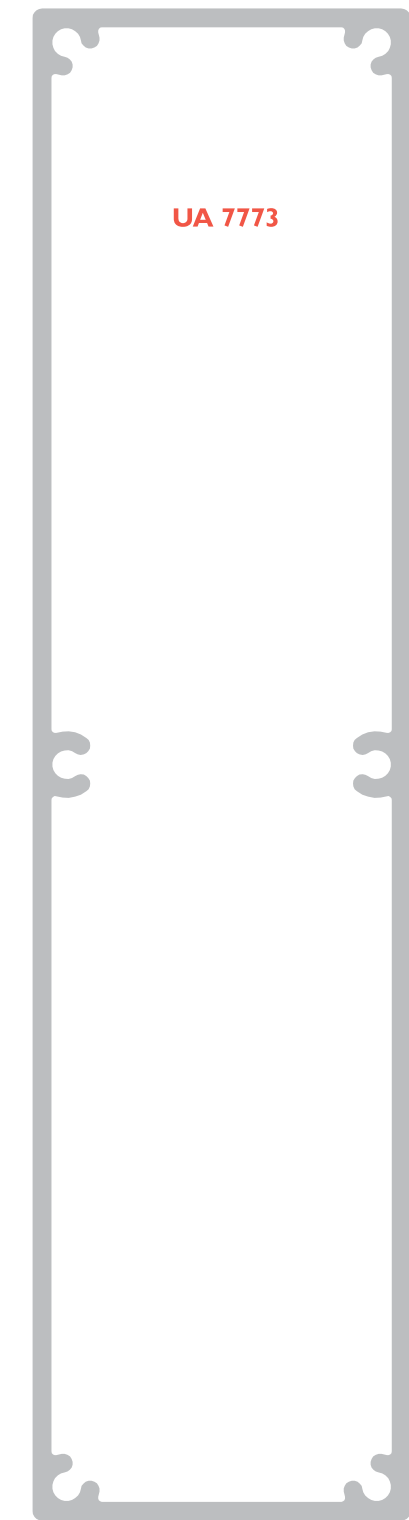
**OAD** = OVERALL DIMENSIONS  
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UA 7773



UA 7788

UA 4206



**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

UA 4133



**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 4134



UA 4204



**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



UA 7774

UA 4203



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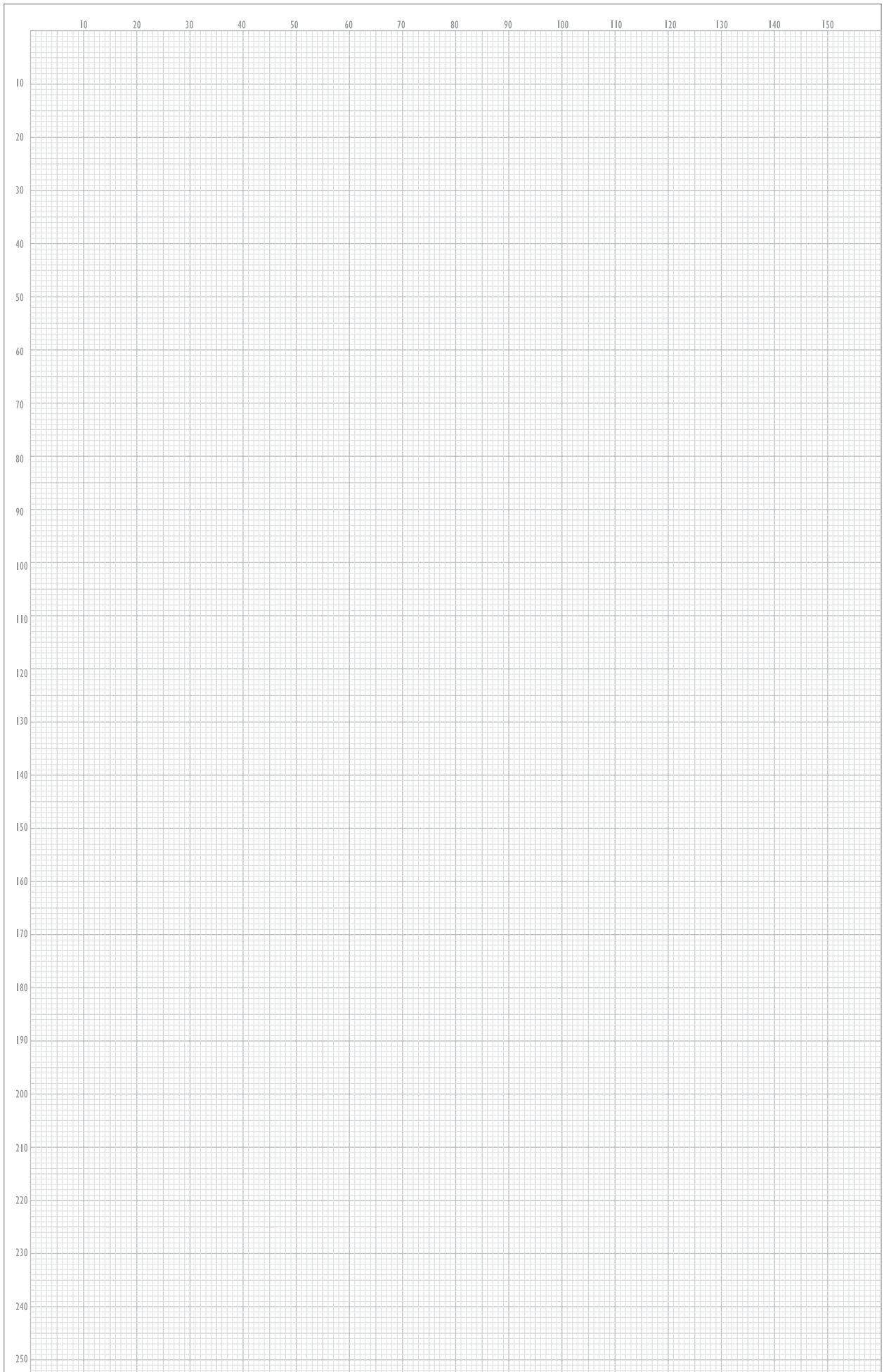


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DIE No	DESCRIPTION
UA 9087	32mm BATTEN INNER CLIP
UA 9088	32 X 32mm BATTEN OUTER
UA 9089	32 X 75mm BATTEN OUTER
UA 9090	32 X 100mm BATTEN OUTER
UA 9091	32 X 150mm BATTEN OUTER
UA 10596	50mm BATTEN INNER CLIP
UA 10597	50 X 50mm BATTEN OUTER
UA 10598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

NOTE: RED INDICATES  
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MINIMUM ORDER  
 QUANTITY 200KG

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 BRANCH TO ENQUIRE

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**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

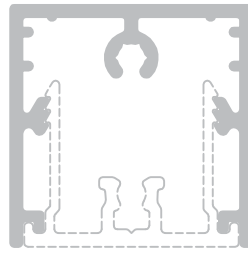
**UA 9090**

32 x 100mm BATTEN OUTER  
kg/m 1.430 P 362  
OAD 100 x 32

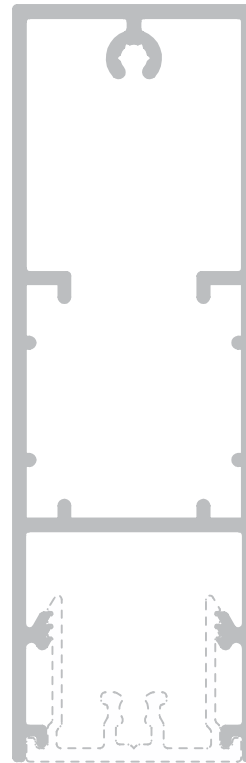
**UA 9091**

32 x 150mm BATTEN OUTER  
kg/m 2.293 P 470  
OAD 150 x 32

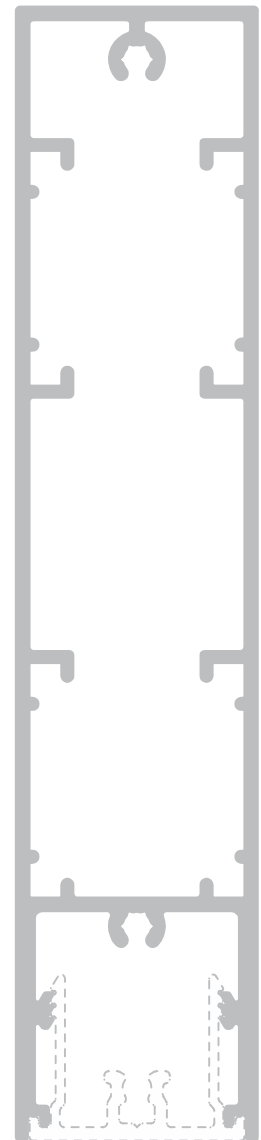
**UA 9088**



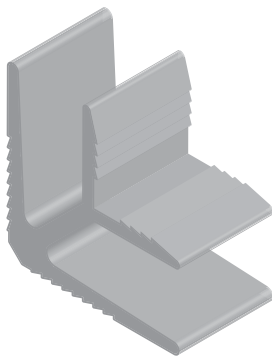
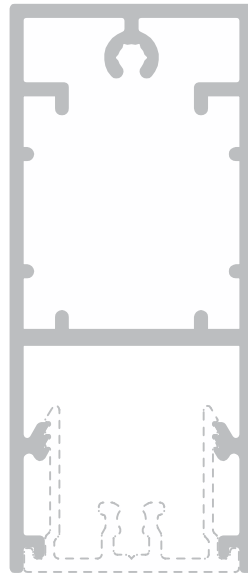
**UA 9090**



**UA 9091**

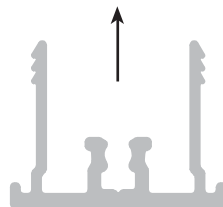


**UA 9089**



**32mm BATTEN  
STAKING CORNER**

CODE: BATTEN32MMSTAKE



**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



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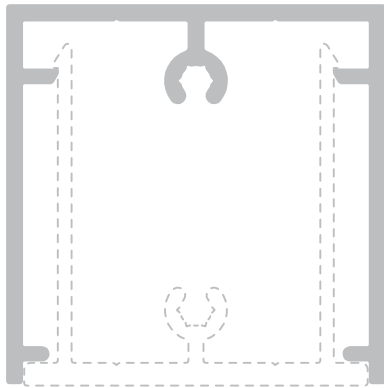
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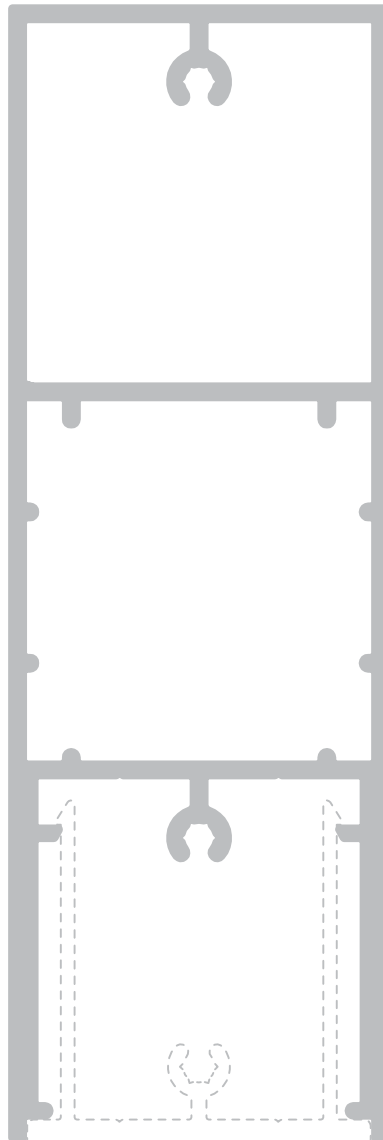
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UA 10597



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

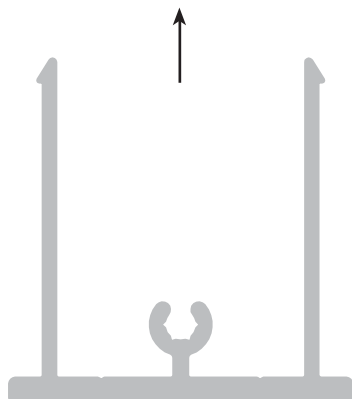
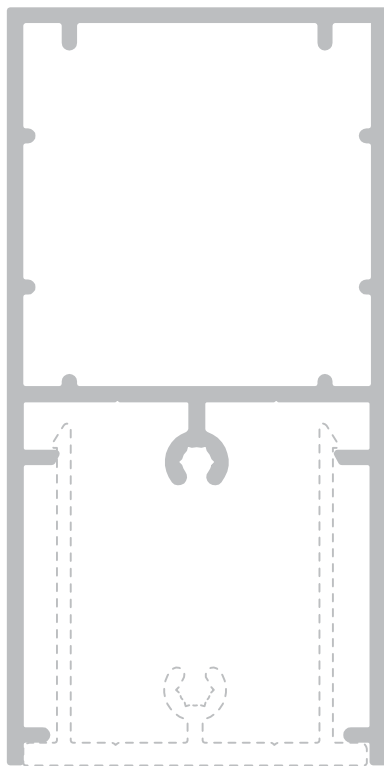
UA 10598

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

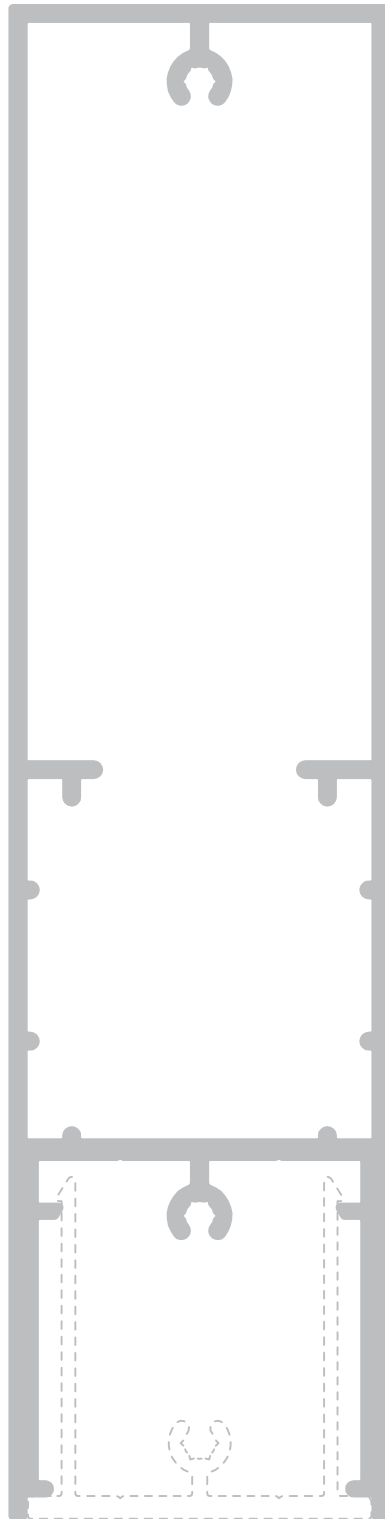
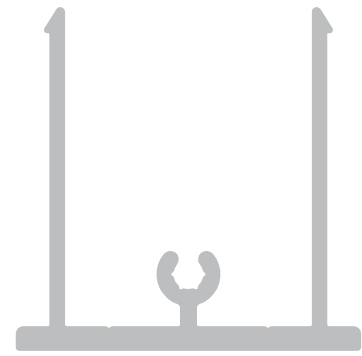
CODE	DESCRIPTION
BATTEN10597EC	50mm x 50mm End Cap
BATTEN10598EC	50mm x 100mm End Cap
BATTEN10599EC	50mm x 150mm End Cap
BATTEN10600EC	50mm x 200mm End Cap

**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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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 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

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

MINIMUM ORDER  
QUANTITY 200KG

CONTACT YOUR LOCAL  
BRANCH TO ENQUIRE

**NB: ULLTRACLAD PRODUCTS SHOULD BE INSTALLED ACCORDING TO OUR  
BRANZ APPROVED INSTALLATION DETAILS**

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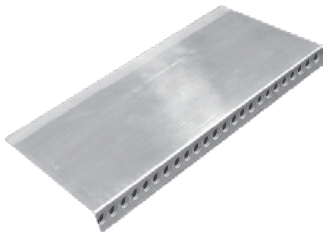
**UA 4528** UltraClad  
STANDARD BOARD  
kg/m 1.003 P 501  
OAD 190.5 x 15

**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

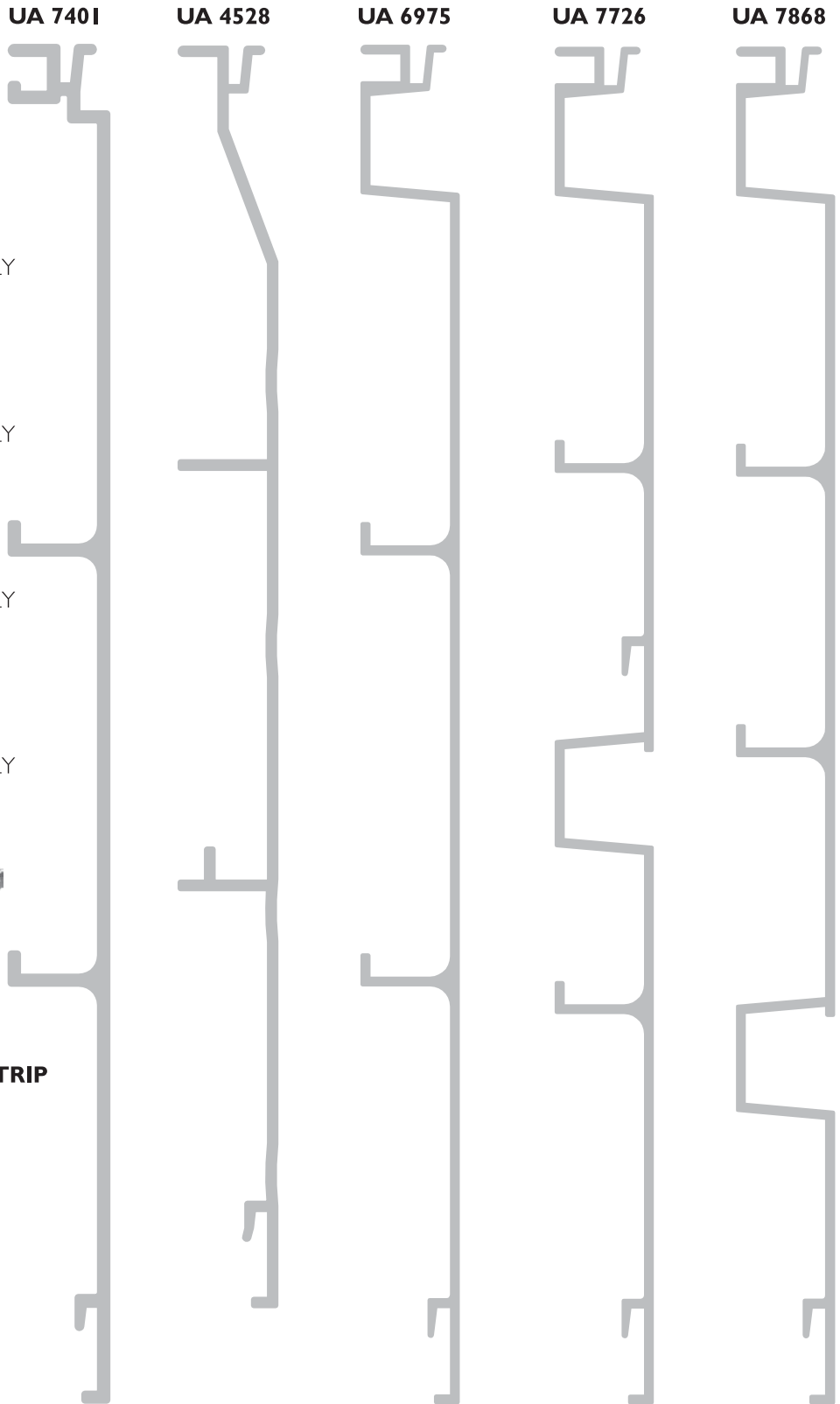
**UA 7868** UltraClad  
SHADO 140 BOARD  
kg/m 1.274 P 614  
OAD 205.16 x 15  
Can also be fitted VERTICALLY



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



**ULLTRACLAD FOAM TAPE**  
Code: FI-7-01OUL



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UA 7923



UA 7922



UA 5059



UA 4917



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

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

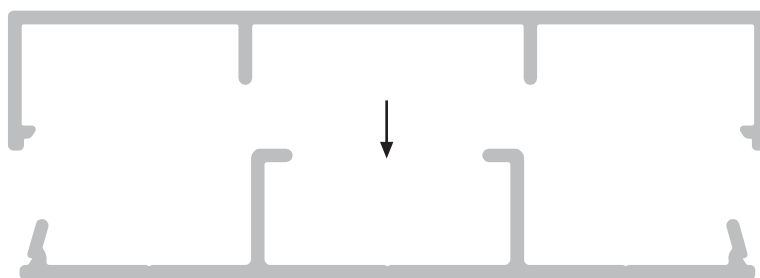
**UA 7922** UlltraClad  
SHIPLAP BOARD  
kg/m 0.986 P 472  
OAD 164.07 x 15  
Can also be fitted VERTICALLY

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

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

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

UA 7925



UA 7924

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**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

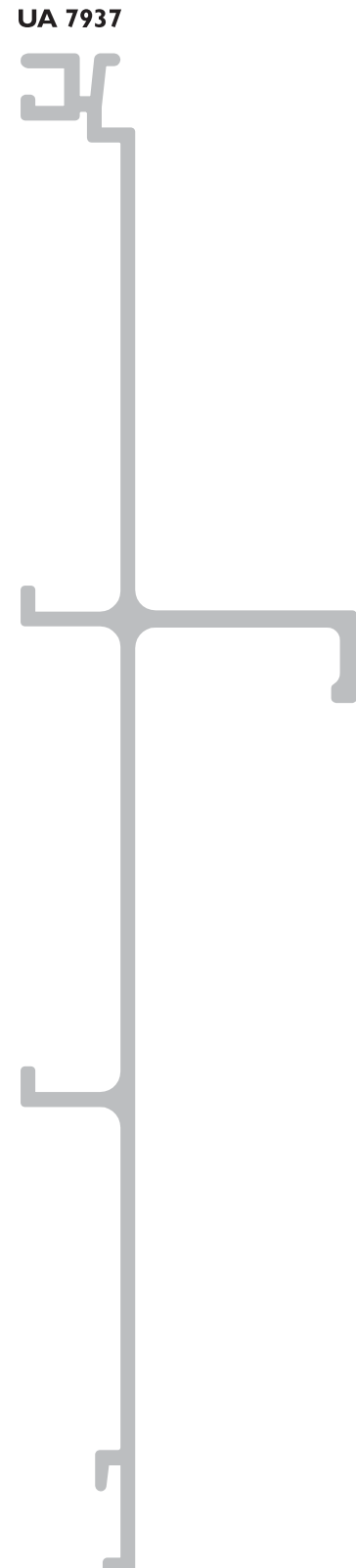
#### IMPORTANT NOTICE:

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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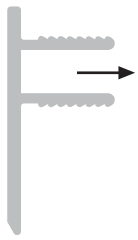
Edition 18 - 2021

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UA 5833



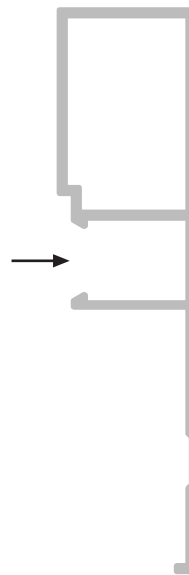
UA 5832



UA 5831



UA 7584



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

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

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

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

UA 4535



UA 4863



UA 4533



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

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

**UA 5832** UlltraClad  
LARGE 65mm CLIP TOP  
kg/m 0.367 P 189  
OAD 65 x 14

**UA 5833** UlltraClad  
SMALL 30mm CLIP TOP  
kg/m 0.215 P 119  
OAD 30 x 14

UA 4862

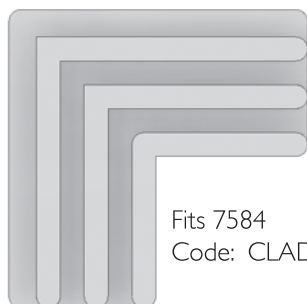


UA 4532



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

**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

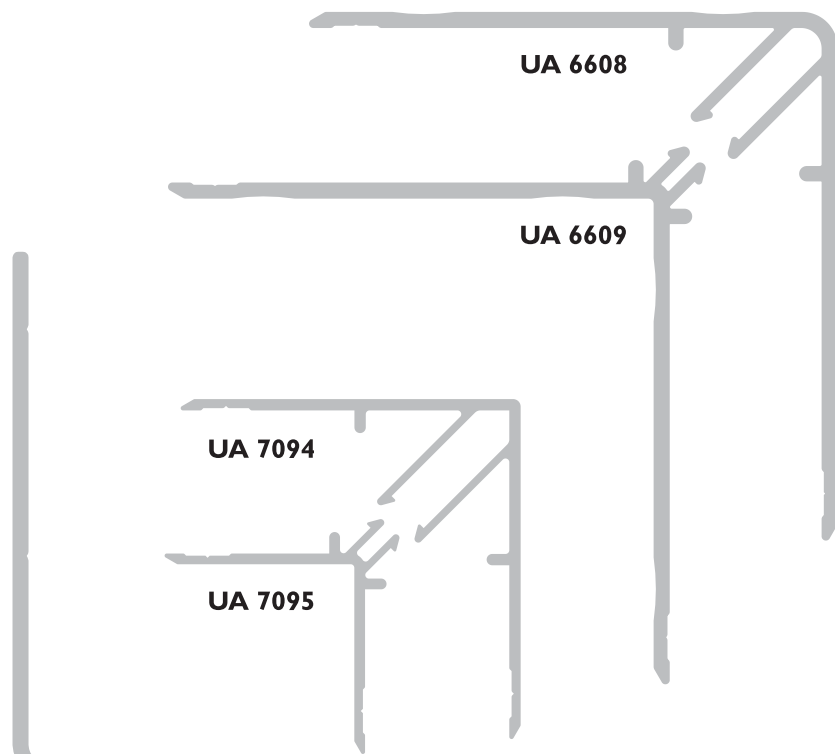
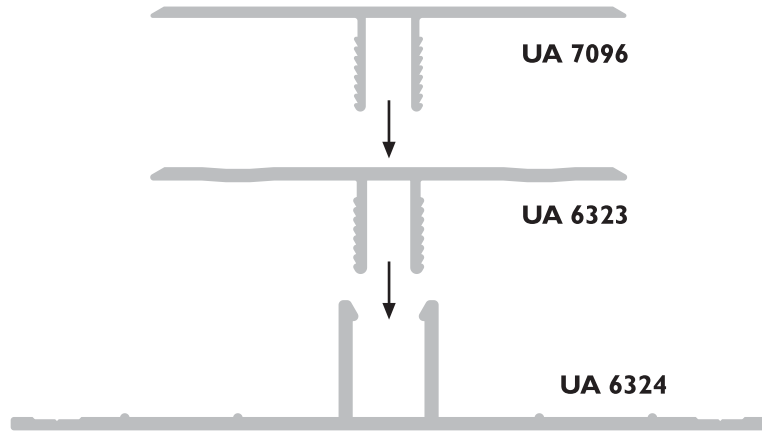
**UA 6609** UltraClad  
SCALLOPED MALE CORNER  
kg/m 0.594 P 300  
OAD 71.3 x 71.3

**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

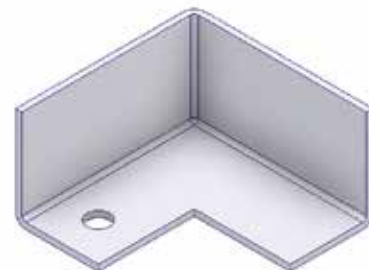
**UA 7096** UltraClad  
FLAT JOINTER TOP  
kg/m 0.338 P 184  
OAD 63 x 13.9

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



UA 7919

BASE CORNER CAP



Fits 7094  
Code: CLADCORNERCAP



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**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**

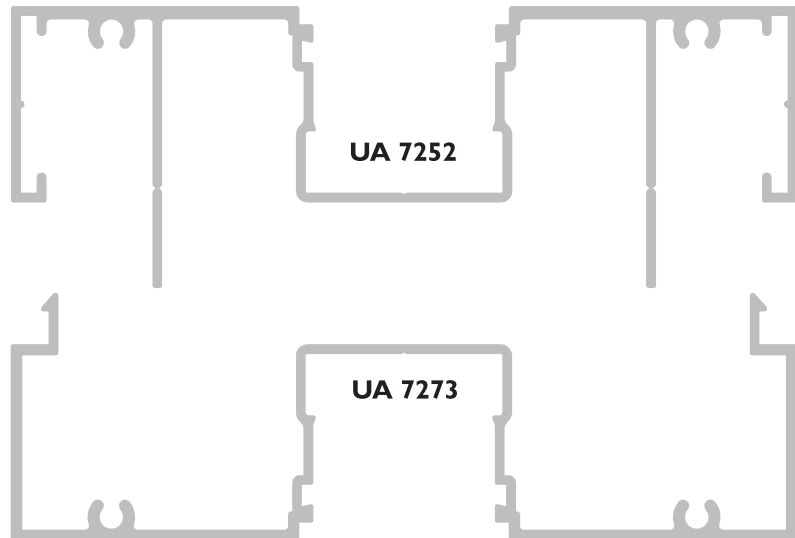
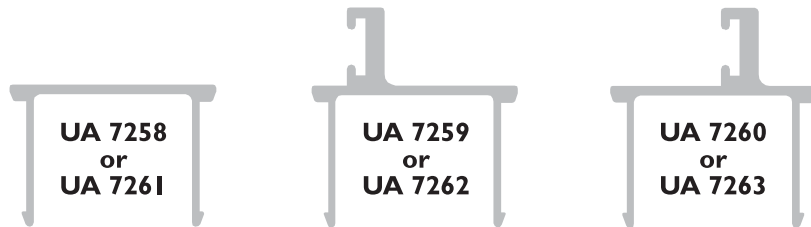
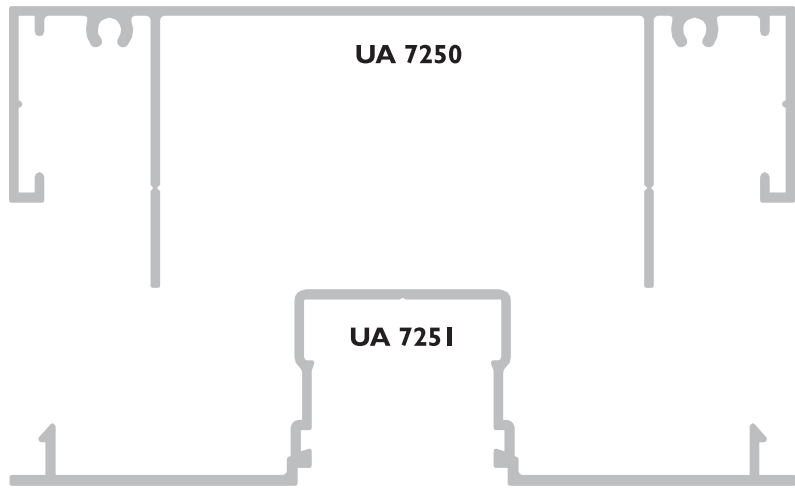
40mm DOOR STOP  
If Anodised  
kg/m 0.309 P 156  
OAD 29.09 x 27.6

**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



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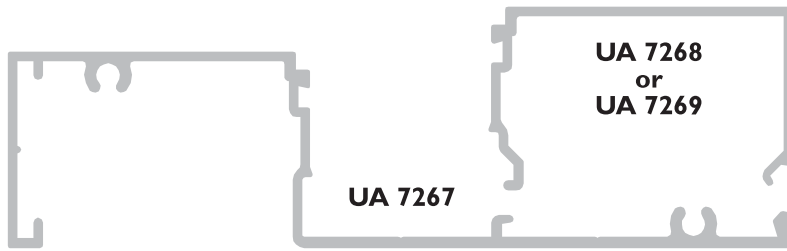
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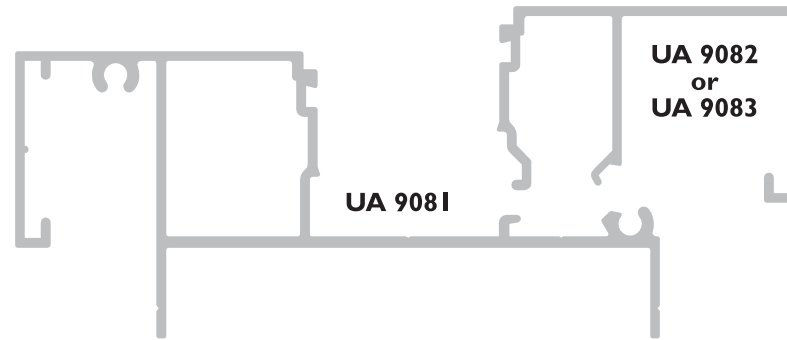


**UA 1934**  
13mm GIB LINING CAP  
kg/m 0.353 P 176  
OAD 35.8 X 20

**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

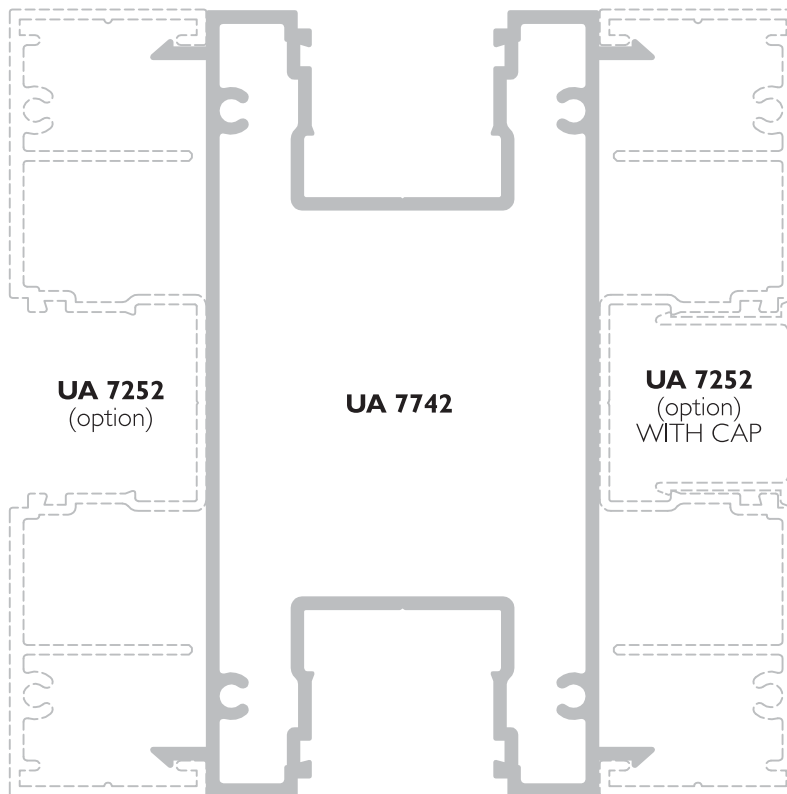


**UA 7742**  
104mm RECESSED  
GLAZING MULLION POST  
kg/m 2.310 P 490  
OAD 104 x 66.73

**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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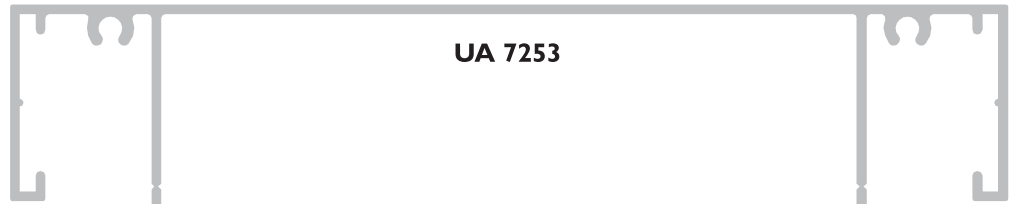


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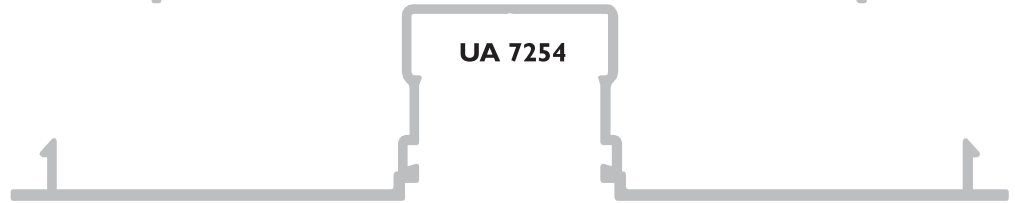
**UA 7253**

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



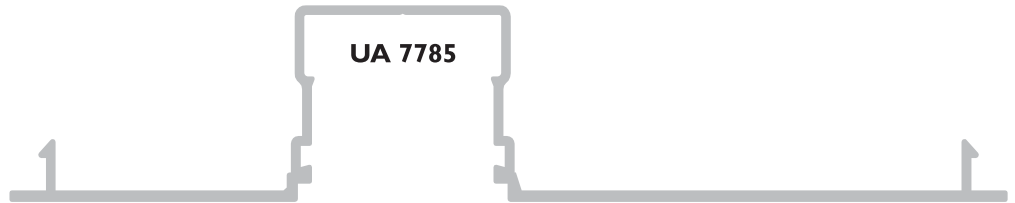
**UA 7254**

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



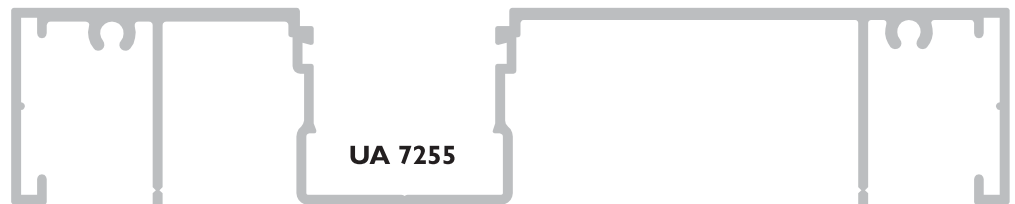
**UA 7255**

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



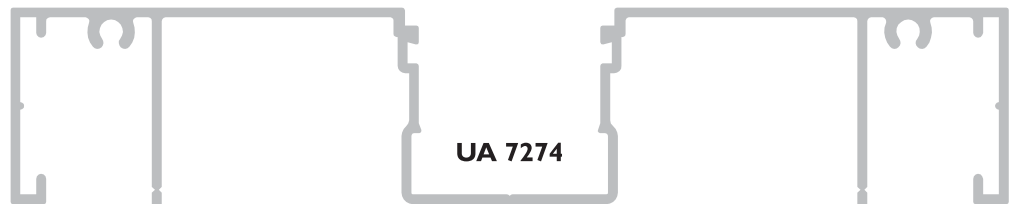
**UA 7274**

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



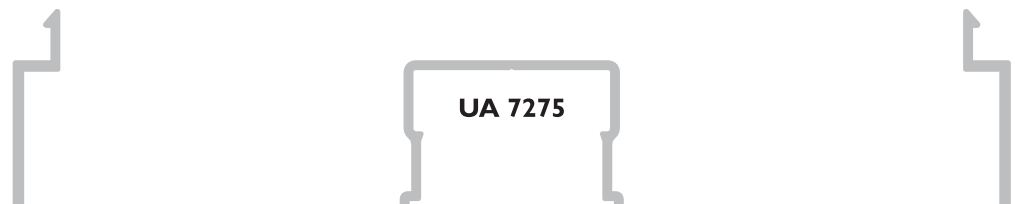
**UA 7275**

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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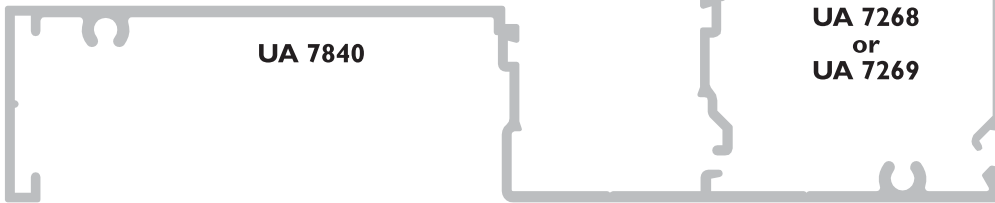
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**P** = EXT PERIPHERY

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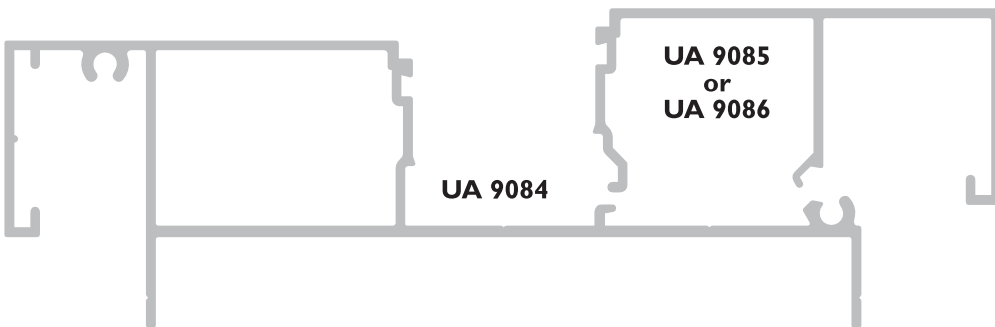


**UA 7268**  
GLAZING BEAD  
If Powdercoated  
kg/m 0.324 P 184  
OAD 40 x 24.35



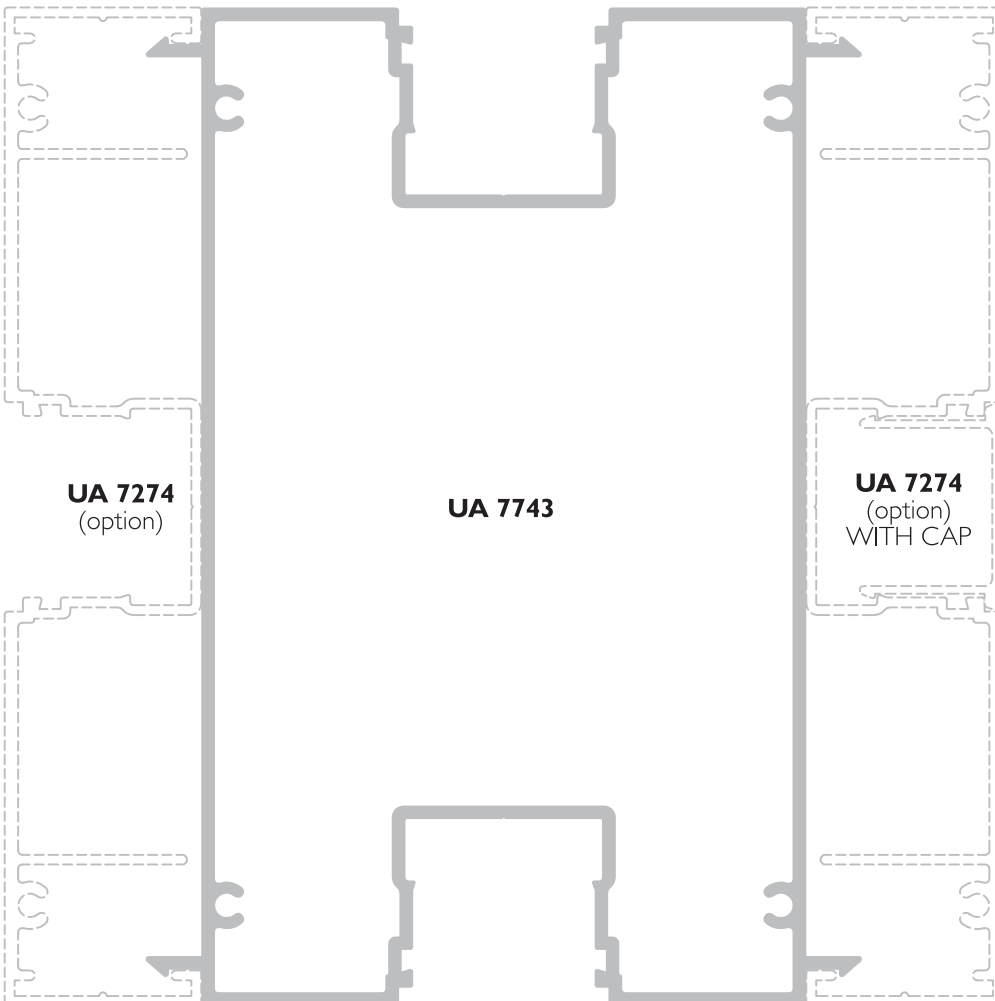
**UA 7269**  
GLAZING BEAD  
If Anodised  
kg/m 0.327 P 186  
OAD 40 x 24.35

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



**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 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

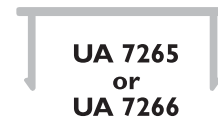
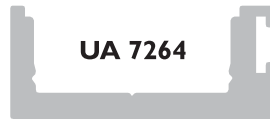
**UA 9084**  
HALF HEIGHT WALL  
GLAZING BASE  
For 92mm Steel Stud  
kg/m 1.040 P 432  
OAD 113.30 x 38

**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

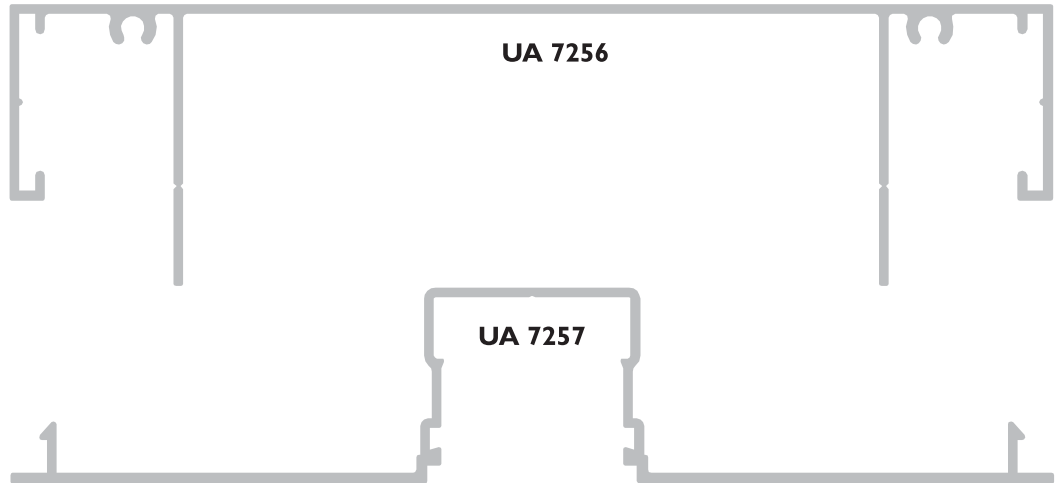
**UA 1609**

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



**UA 7256**

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



**UA 7257**

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

**UA 7264**

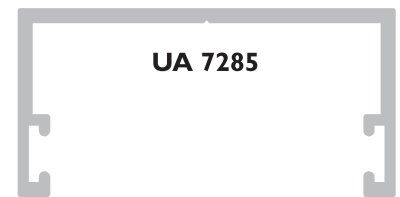
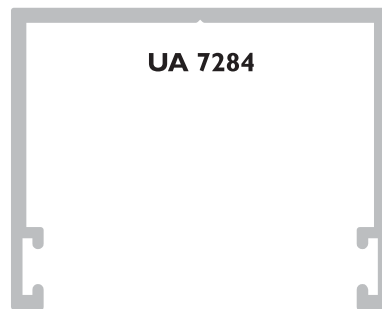
ADJUSTABLE  
DOOR STOP  
kg/m 0.561 P 132  
OAD 35 x 15

**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**

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

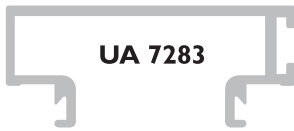
**UA 1609**



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UA 7283



UA 7282



UA 7281

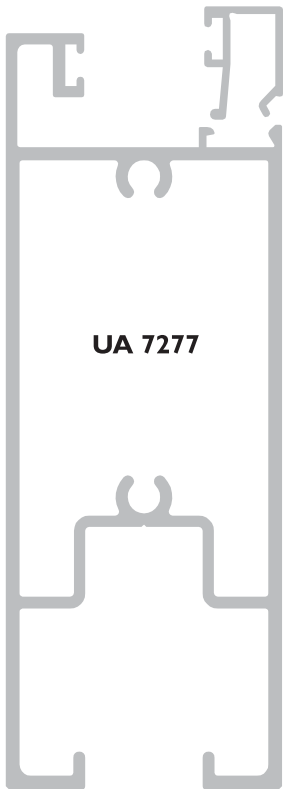


UA 7276



UA 7280

UA 7278  
or  
UA 7279



UA 7277



UA 7287



UA 7286

**UA 7276**

DOOR TOP 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

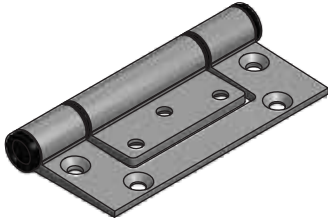
DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.  
OAD = OVERALL DIMENSIONS  
P = EXT PERIPHERY

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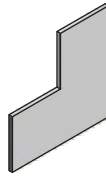


**MR = MILL RUN ONLY · NON-STOCKED ITEM · MINIMUM ORDER 200KG**

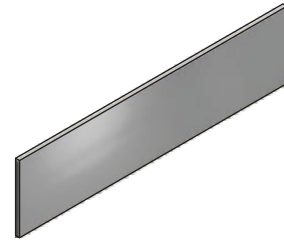
NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.



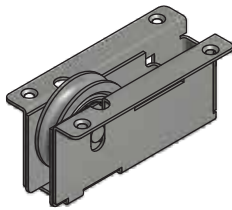
**TAPERED FLUSH HINGE**  
Anodised Silver  
Code: 20971  
Powdercoated Matt Black  
Code: 20968



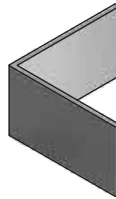
**PARTITION GUSSET**  
Mitre Corner, Vertical  
Code: PARTGUSS22.5  
PKT 50



**SPLICE PLATE**  
Butt Joint  
Code: PARTSPLICE23  
PKT 50



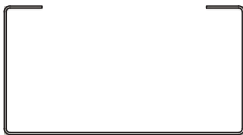
**ADJ BOTTOM DOOR ROLLER**  
Code: H915XSAS



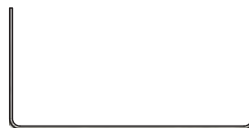
**STAKING CORNER**  
Mitre Corner, Horizontal  
Code: PARTSTAK23  
PKT 50



**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



DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.

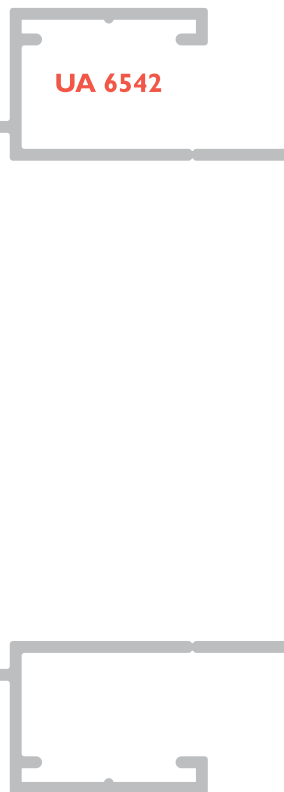
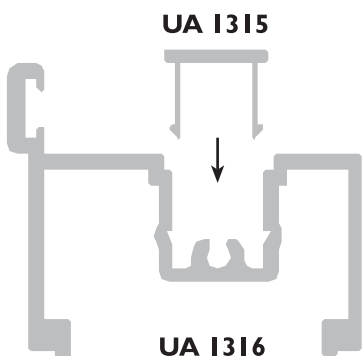
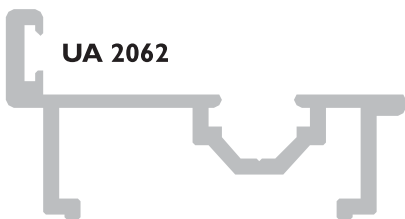
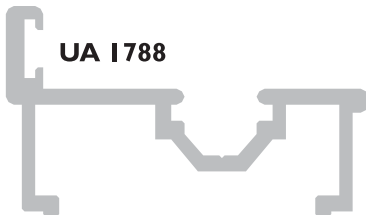
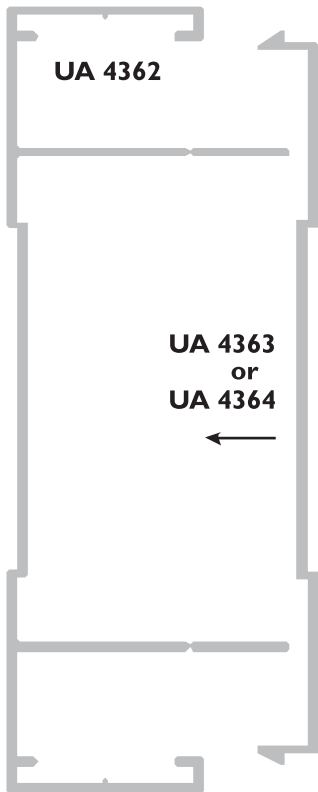
OAD = OVERALL DIMENSIONS  
P = EXT PERIPHERY

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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 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 18 - 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

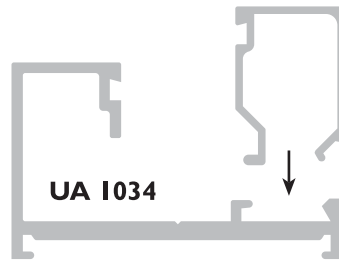
**UA 1047**  
PILLAR POST JAMB - 40mm Door  
kg/m 0.354 P 138  
OAD 47 x 14

**UA 1313**  
DOUBLE GLAZING CAP  
kg/m 0.253 P 136  
OAD 48.8 x 9.2

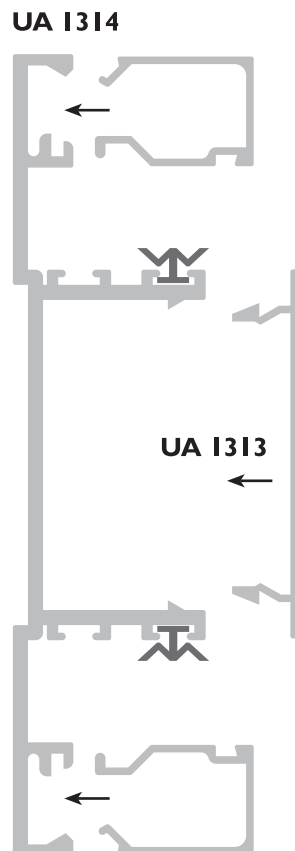
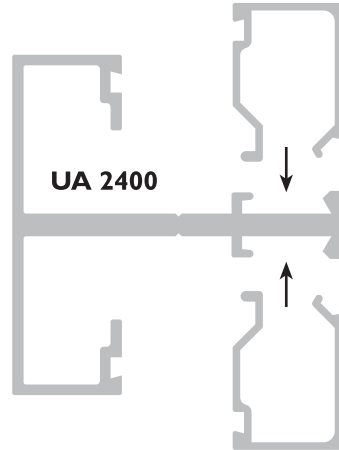
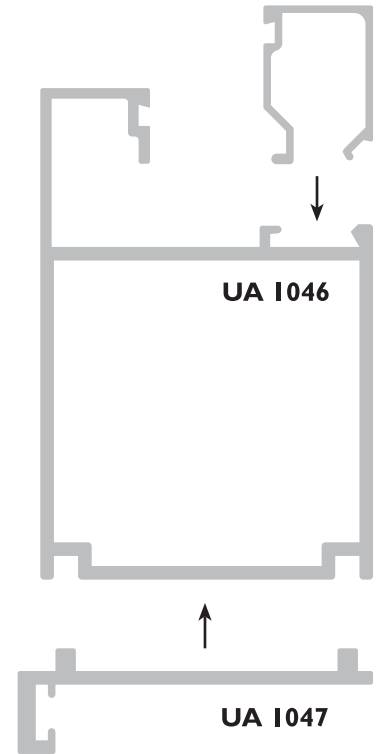
**UA 1314**  
DOUBLE GLAZING BASE  
kg/m 1.092 P 435  
OAD 106 x 25.5 Infill 466

**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**



**BUTTERFLY WEDGE**  
Code: PART466  
Black



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**INFILLS SOLD SEPARATELY**



**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**



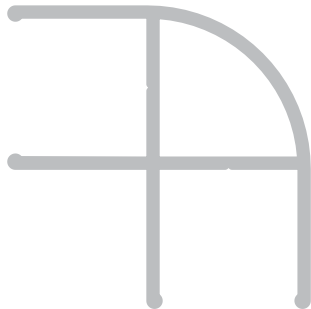
**UA 6453**

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: HA3S

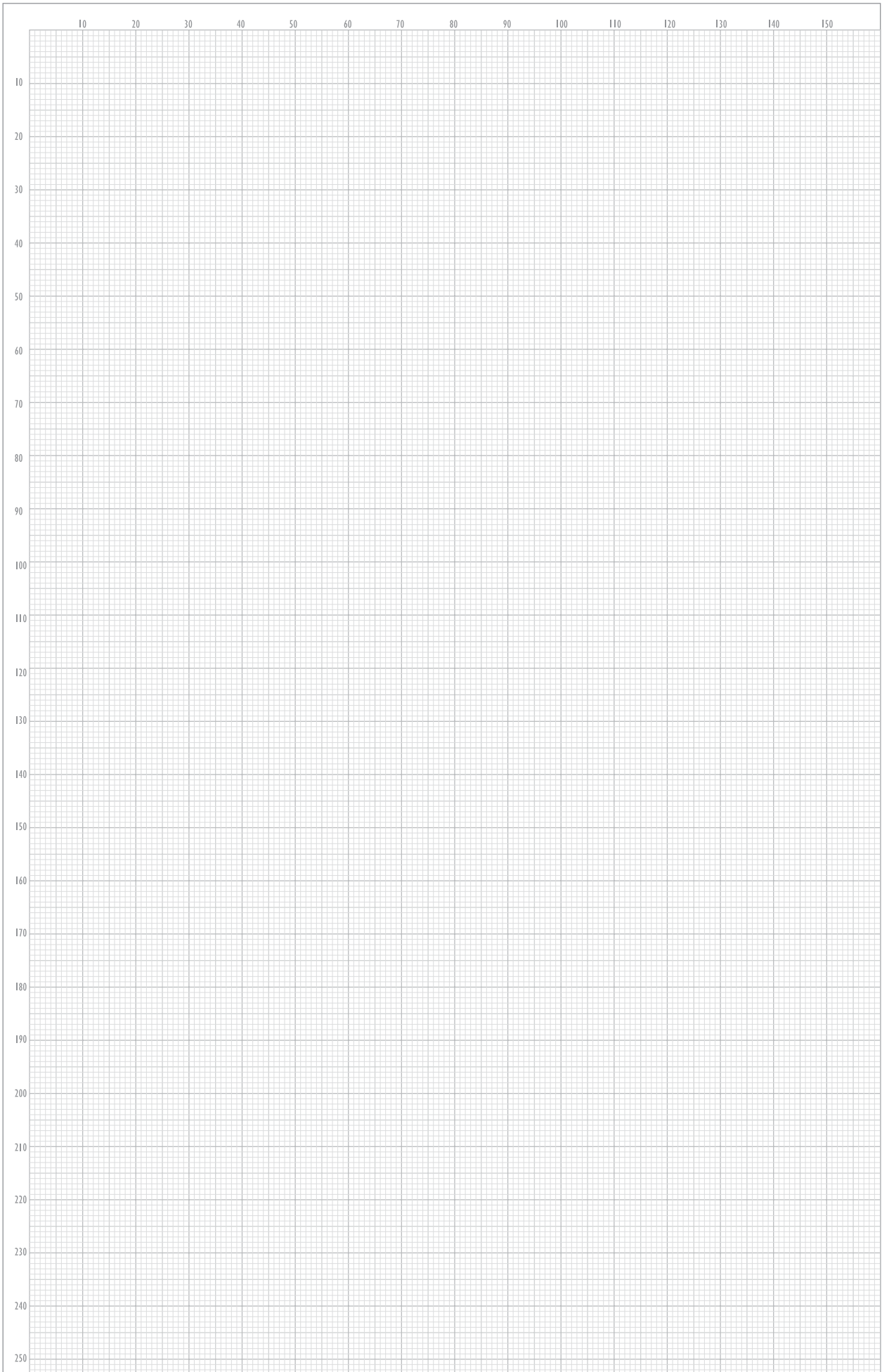
**UC 1914 PARTITION FOOT**  
PLATFORM HEIGHT: 150mm



**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

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

MINIMUM ORDER  
QUANTITY 200KG

CONTACT YOUR LOCAL  
BRANCH TO ENQUIRE

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DIAGRAMS ACTUAL SIZE UNLESS  
OTHERWISE INDICATED.  
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AND NOT INTENDED AS  
SPECIFICATION DRAWINGS.  
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P = EXT PERIPHERY  
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NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.

**UA I037**  
 EASY DUCT LID ( 2C, 3C )  
 kg/m 0.868 P 329  
 OAD 136 x 10

**UA I038**  
 EASY DUCT BASE ( 2C )  
 kg/m 1.449 P 559  
 OAD 136 x 41

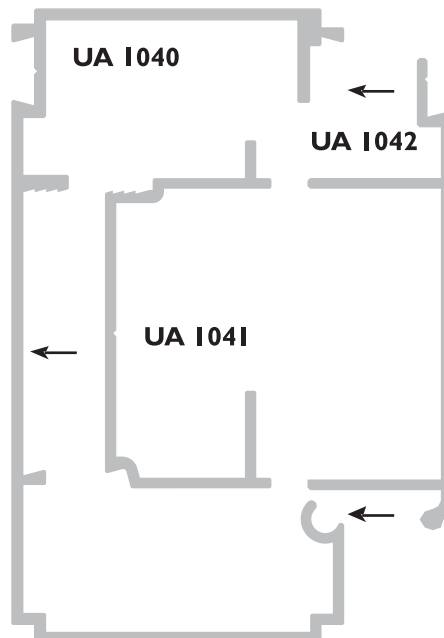
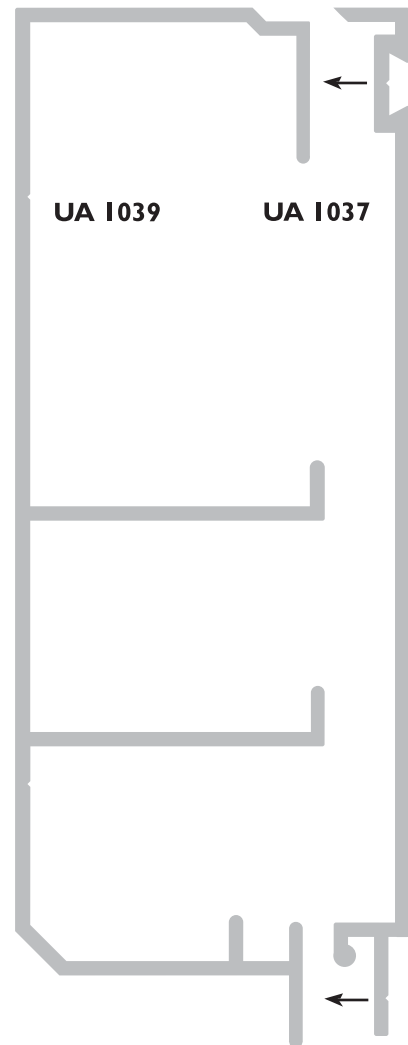
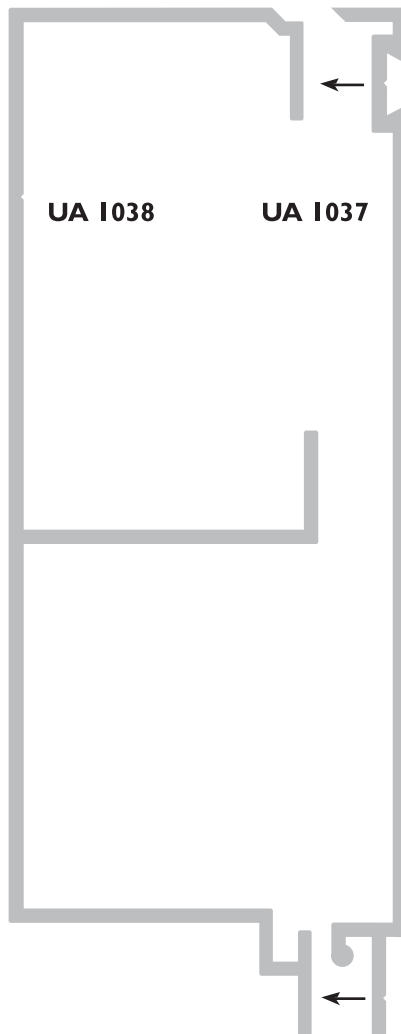
**UA I039**  
 EASY DUCT BASE ( 3C )  
 kg/m 1.668 P 645  
 OAD 136 x 41

**UA I040**  
 CAVITY DUCT BASE  
 kg/m 0.949 P 432  
 OAD 84 x 44

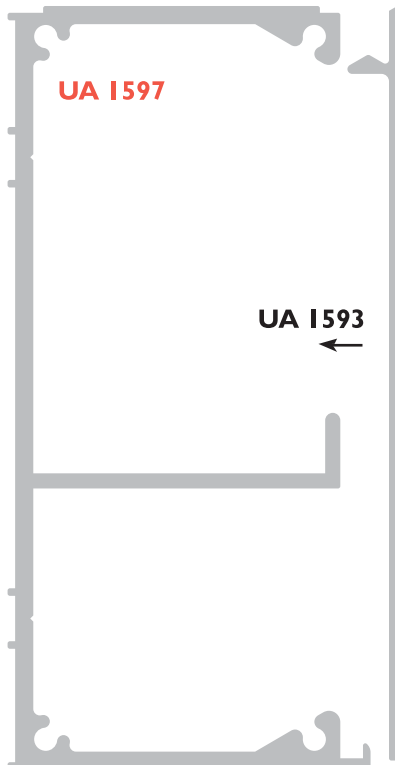
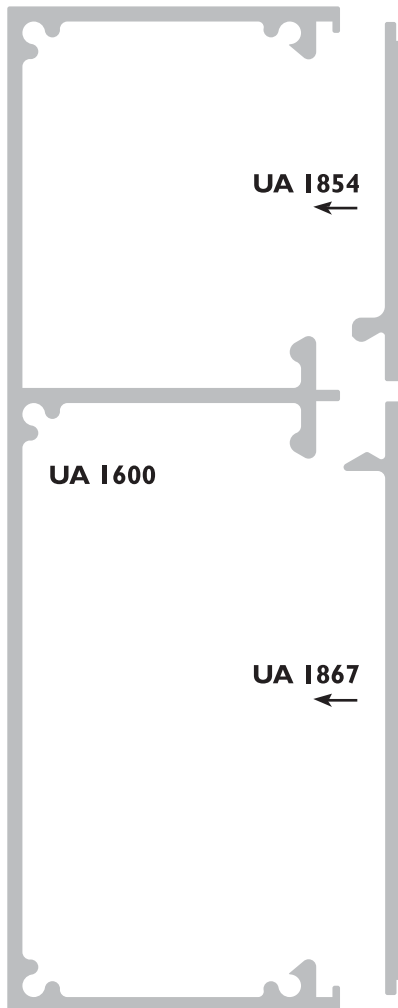
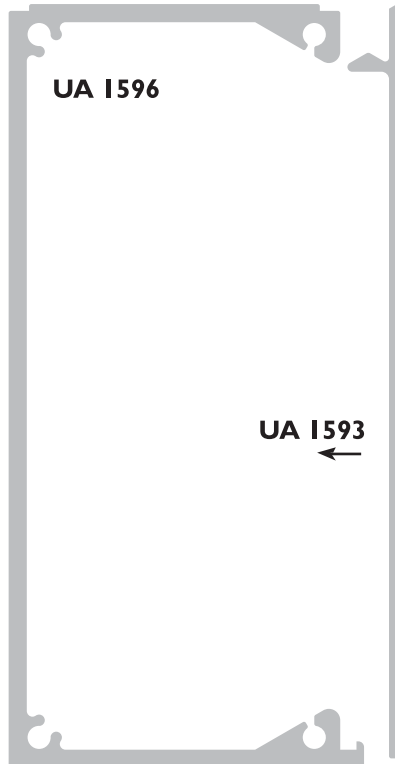
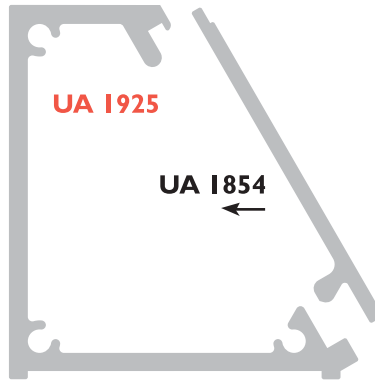
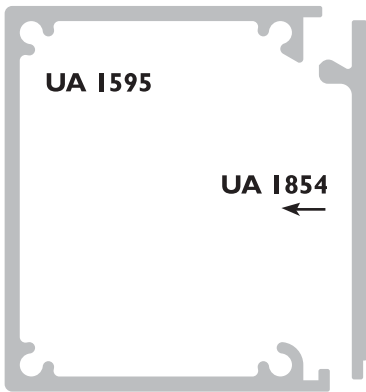
**UA I041**  
 DUCT DIVIDER  
 kg/m 0.400 P 196  
 OAD 46 x 22

**UA I042**  
 DUCT LID  
 kg/m 0.412 P 207  
 OAD 62.5 x 19

**UA I043**  
 DUCT BASE CHANNEL  
 kg/m 0.307 P 158  
 OAD 47 x 17



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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 Sml ( 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)**

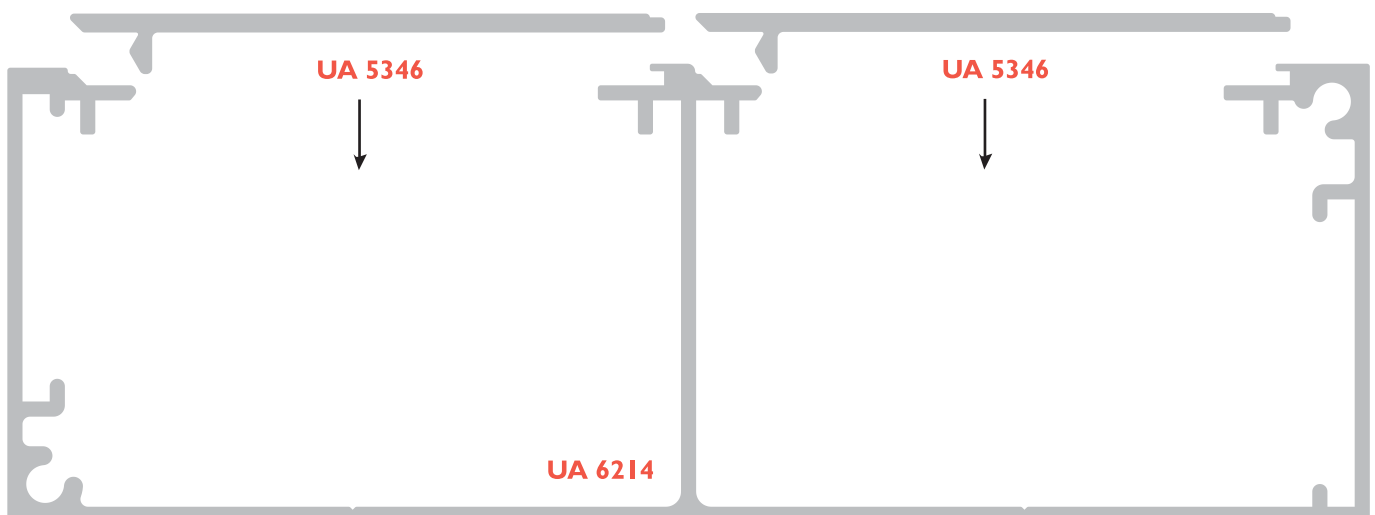
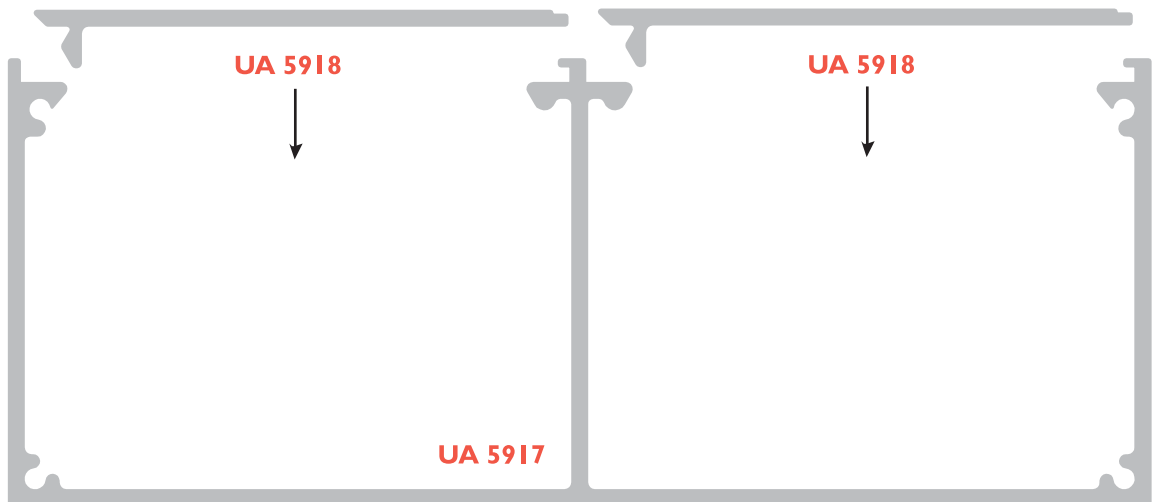
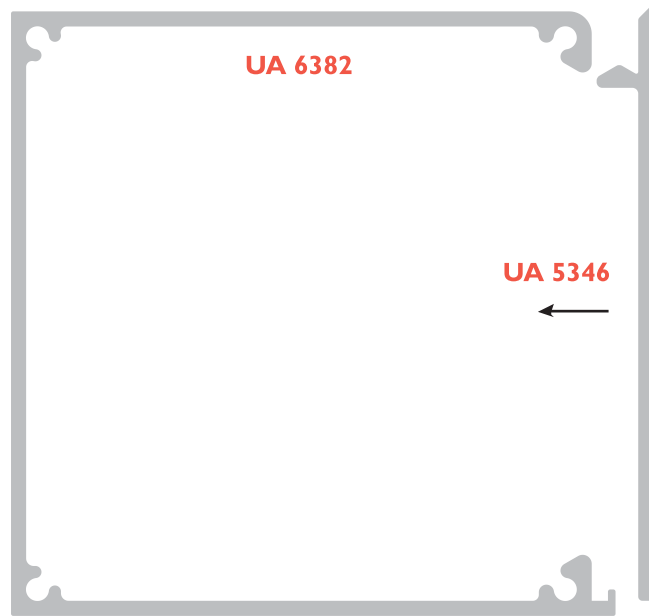
DOUBLE DUCT LID  
kg/m 0.402 P 154  
OAD 70.5 x 7.5

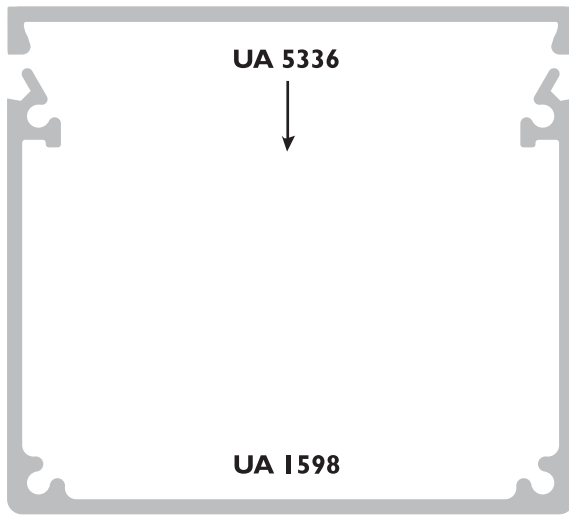
**UA 6214 (MR)**

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)**

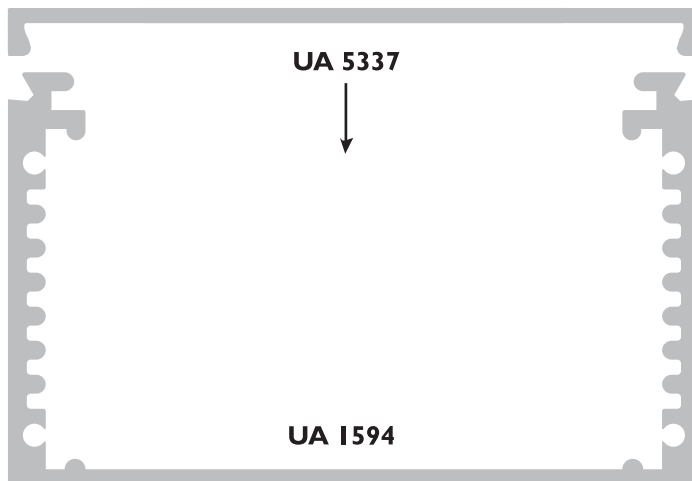
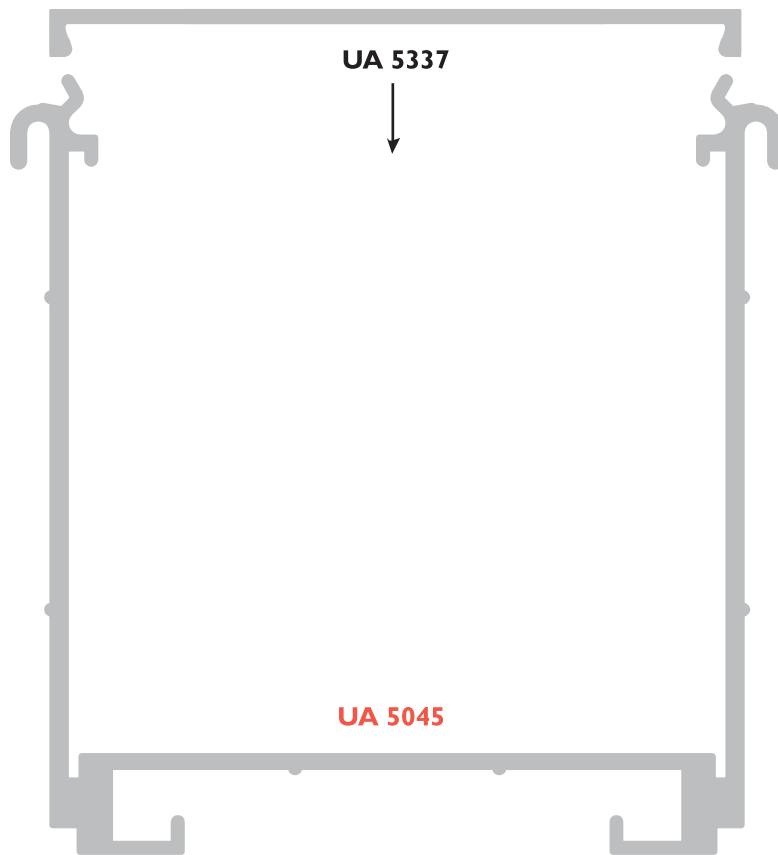
DUCT CHANNEL ( KPL04 )  
kg/m 2.303 P 722  
OAD 103 x 102.1

**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



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**UA 2046**

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

**UA 2047**

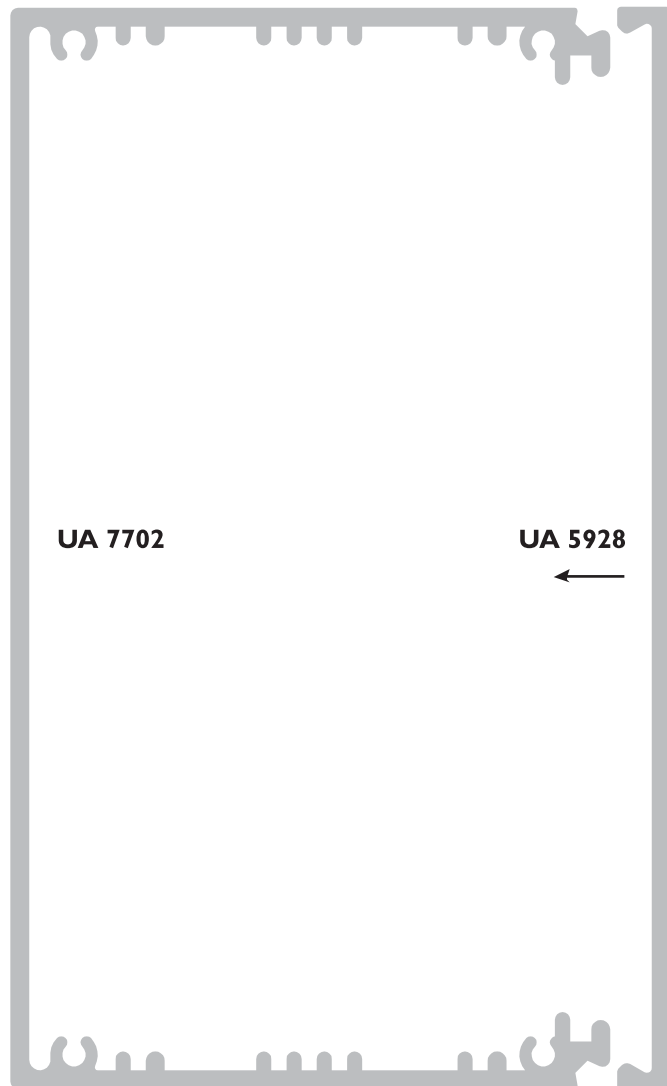
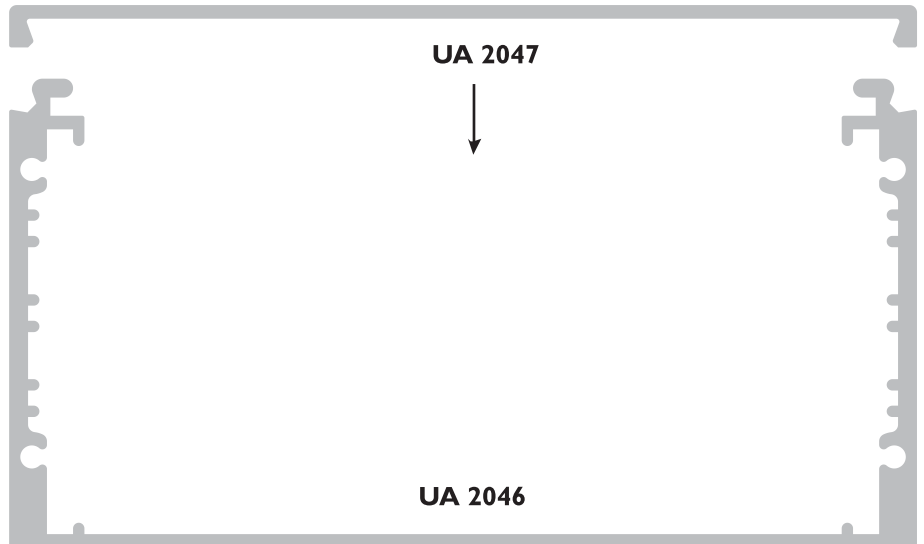
DUCT LID ( KMP26 )  
 kg/m 0.639 P 259  
 OAD 120 x 5.6

**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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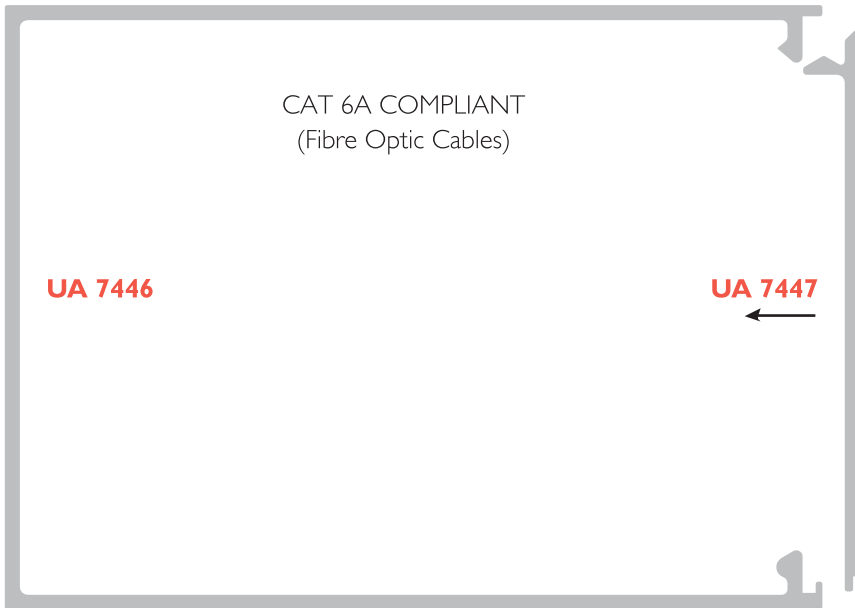
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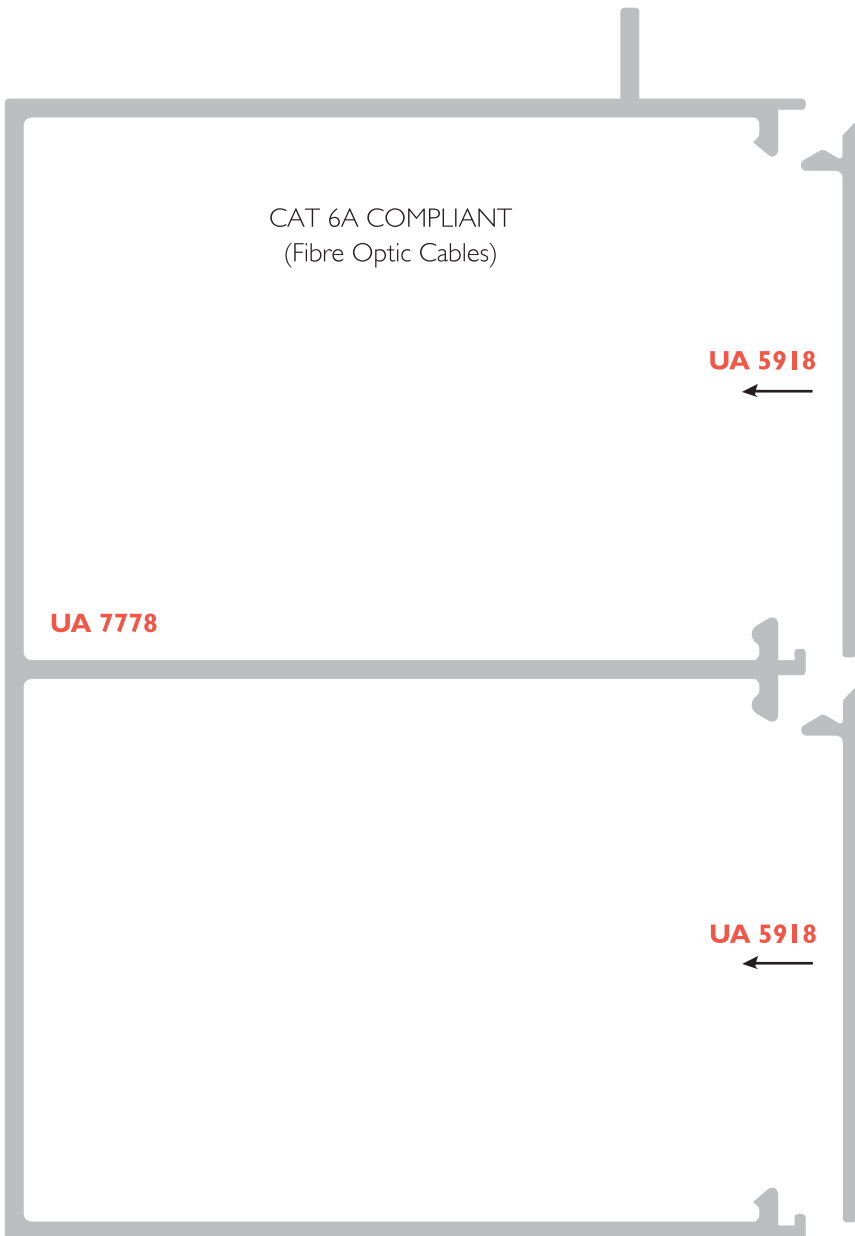


**UA 5918 (MR)**  
 DOUBLE DUCT LID  
 kg/m 0.402 P 154  
 OAD 70.5 x 7.5

**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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**UA 4476 (MR)**

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

**UA 5928**

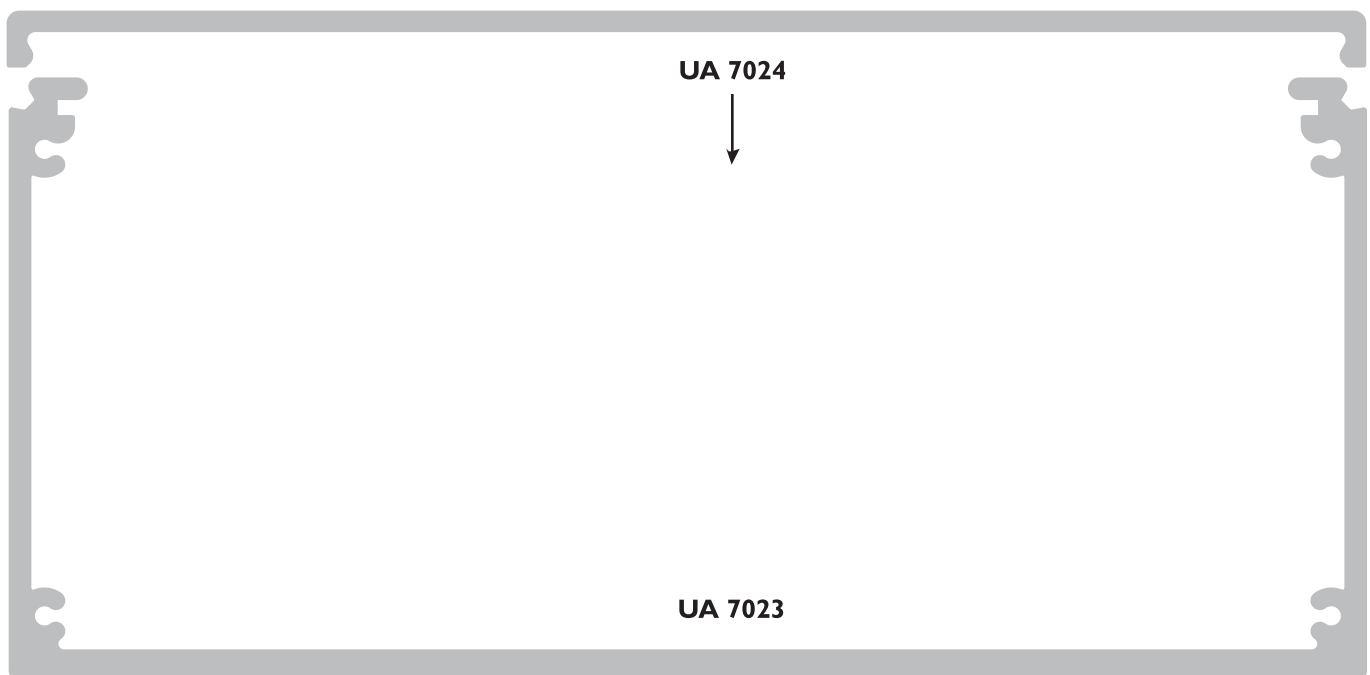
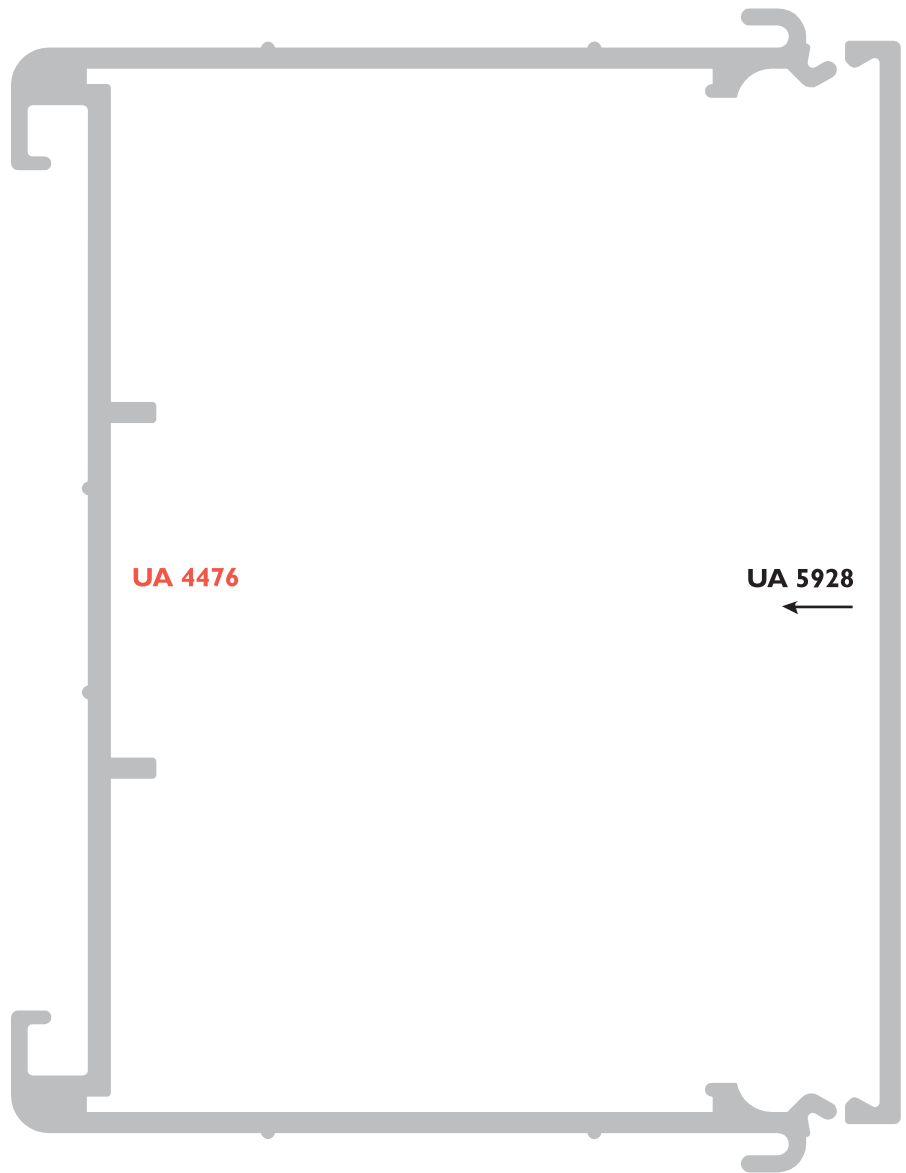
DUCT LID ( KPL05 )  
 kg/m 1.046 P 310  
 OAD 143 x 7.13

**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
<b>75mm SHOP FRONT</b>		<b>GENERAL SHOP FRONT</b>	
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  
= MILL RUN ONLY =  
NON-STOCKED ITEM

MINIMUM ORDER  
QUANTITY 200KG

CONTACT YOUR LOCAL  
BRANCH TO ENQUIRE

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**UA I285**  
MULLION  
kg/m 1.380 P 499  
OAD 76.2 x 44.5

**UA I286**  
MULLION  
kg/m 1.779 P 313  
OAD 76.2 x 44.5

**UA I287**  
GLAZING BEAD  
kg/m 0.239 P 147  
OAD 30.8 x 18.5

**UA I288**  
MULLION  
kg/m 1.483 P 242  
OAD 76.2 x 44.5

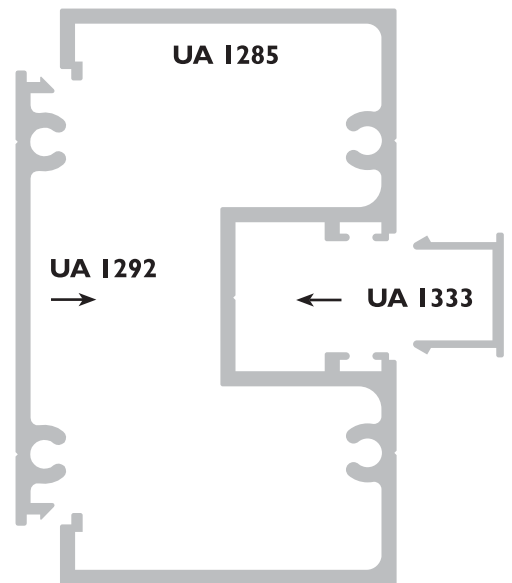
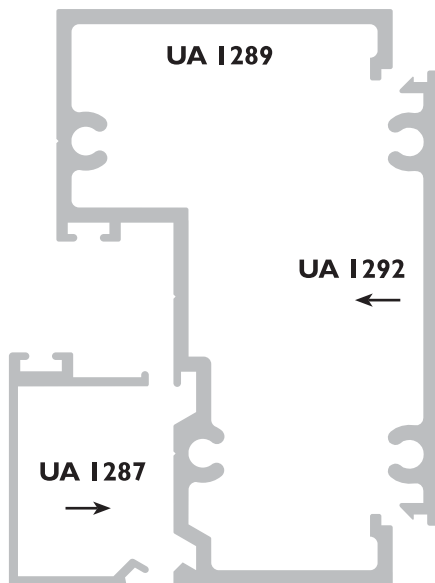
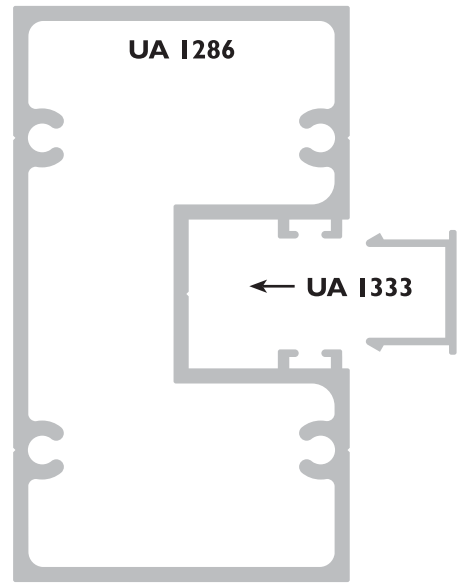
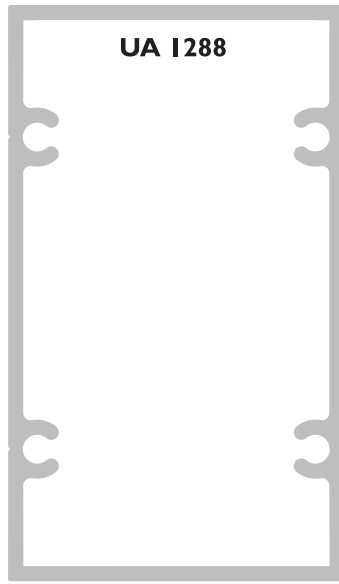
**UA I289**  
SILL TRANSOM  
kg/m 1.136 P 414  
OAD 76.2 x 44.5

**UA I290**  
MULLION  
kg/m 1.074 P 388  
OAD 76.2 x 44.5

**UA I291**  
GLAZING INFILL  
kg/m 0.719 P 268  
OAD 60.2 x 20.5

**UA I292**  
FLUSH INFILL  
kg/m 0.454 P 169  
OAD 60.2 x 6.7

**UA I333**  
POCKET FILLER  
kg/m 0.121 P 78  
OAD 16.5 x 12



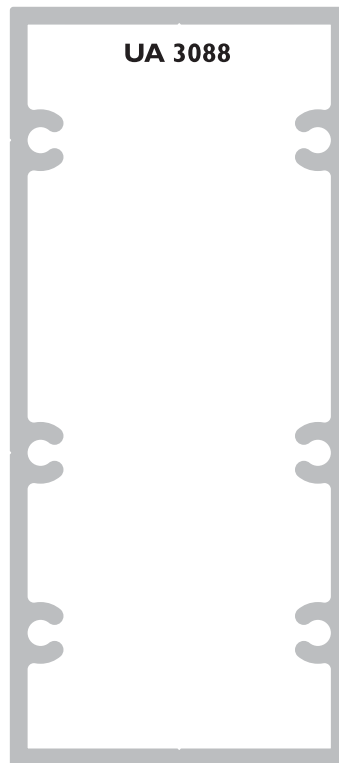
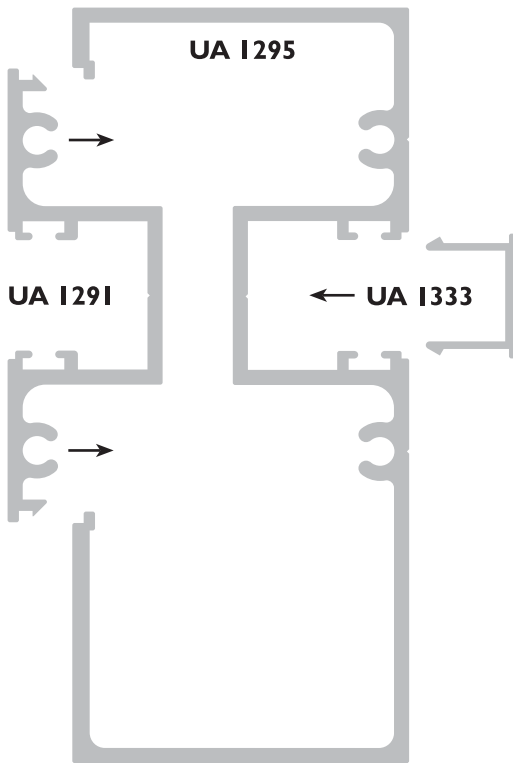
DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.  
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Edition 18 - 2021

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

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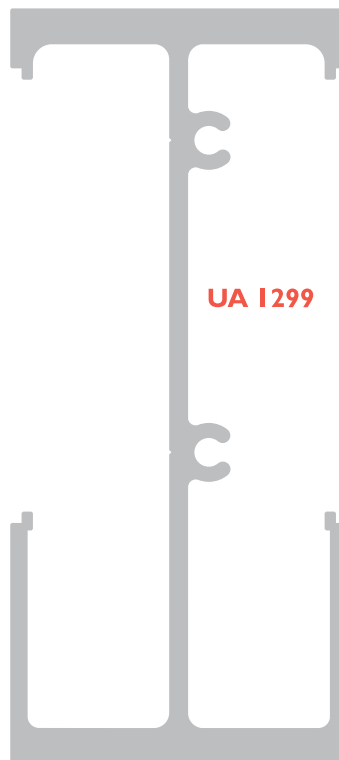
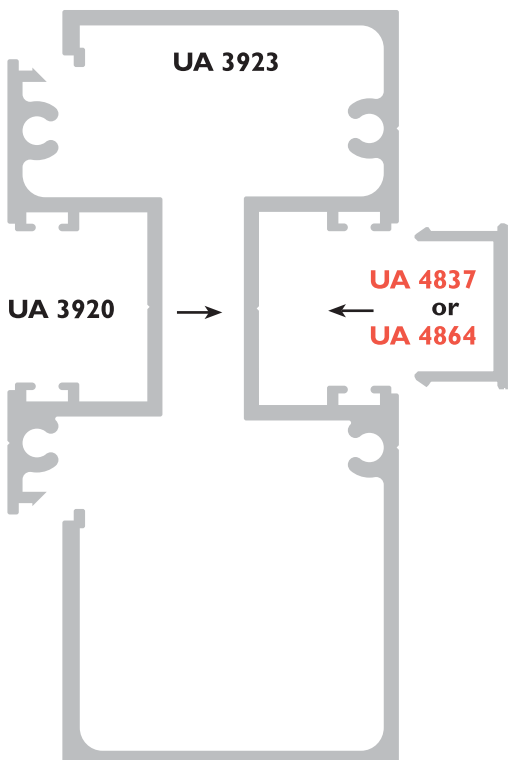
**UA 1291**  
GLAZING INFILL  
kg/m 0.719 P 268  
OAD 60.2 x 20.5

**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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**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**

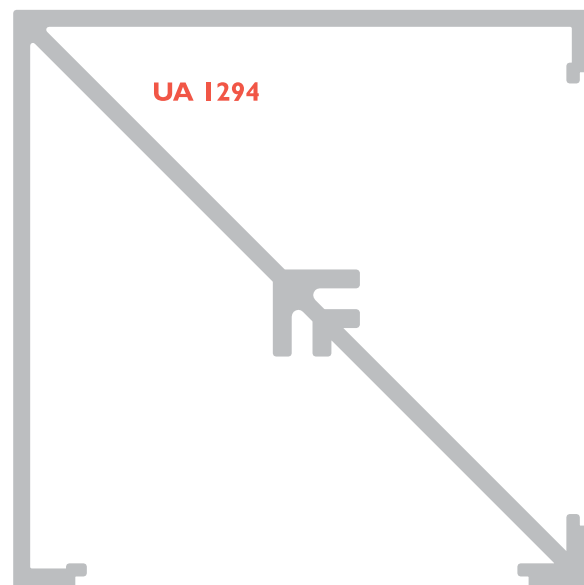
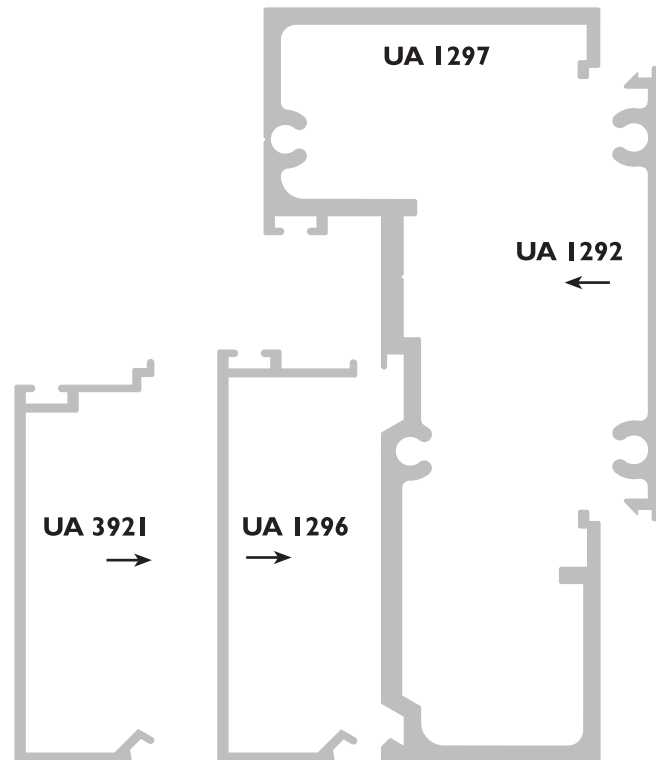
SILL TRANSOM  
kg/m 1.650 P 515  
OAD 100 x 44.5

**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 OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.

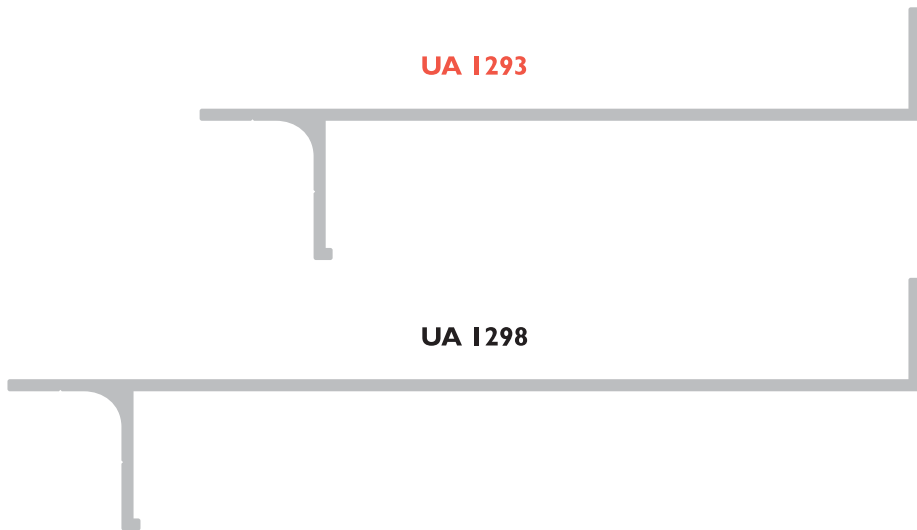
**OAD** = OVERALL DIMENSIONS  
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Edition 18 - 2021

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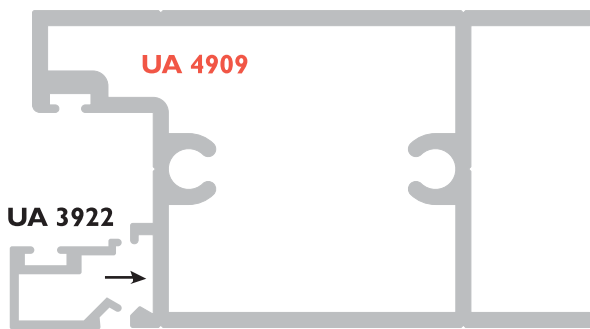


**UA 1293 (MR)**  
FLASHING  
kg/m 0.567 P 257  
OAD 95 x 33.5

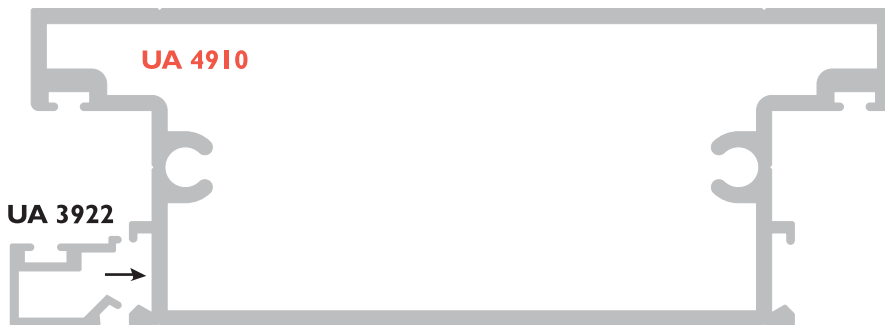
**UA 1298**  
FLASHING  
kg/m 0.676 P 308  
OAD 120 x 33.5

**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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**UA I070**

TOP RAIL  
kg/m 1.420 P 254  
OAD 60 x 42

**UA I300**

HINGE STILE  
kg/m 1.132 P 219  
OAD 51 x 44

**UA I301**

WOOLPILE STILE  
kg/m 1.161 P 222  
OAD 51 x 44

**UA I302**

PLAIN STILE  
kg/m 1.112 P 217  
OAD 51 x 44

**UA I303**

GLAZING BEAD  
kg/m 0.167 P 98  
OAD 14.8 x 13.6

**UA I304**

VISION RAIL CAP  
kg/m 0.447 P 158  
OAD 42 x 15

**UA I305**

TOP TRACK  
kg/m 1.002 P 339  
OAD 63 x 43

**UA I306**

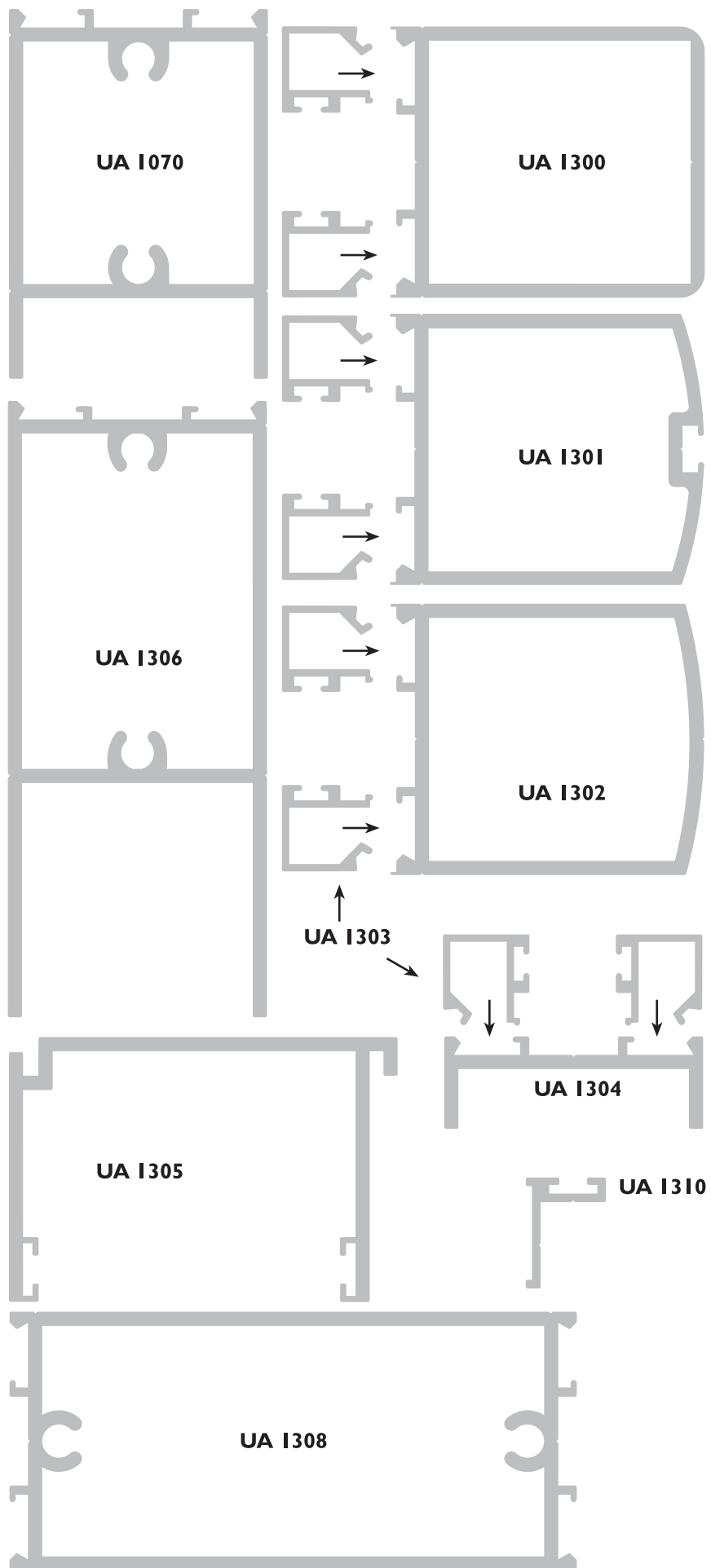
BOTTOM RAIL  
kg/m 1.919 P 383  
OAD 100 x 42  
Takes Door Roller  
TRUKEG940710

**UA I308**

VISION RAIL  
kg/m 1.849 P 315  
OAD 92 x 42

**UA I310**

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



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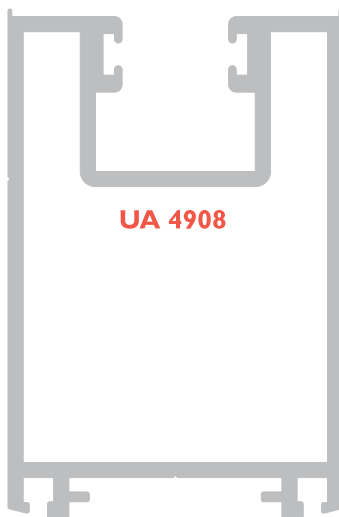
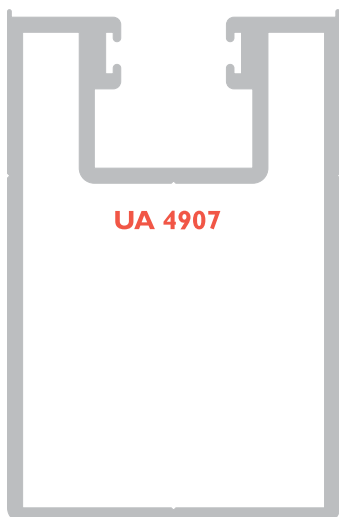
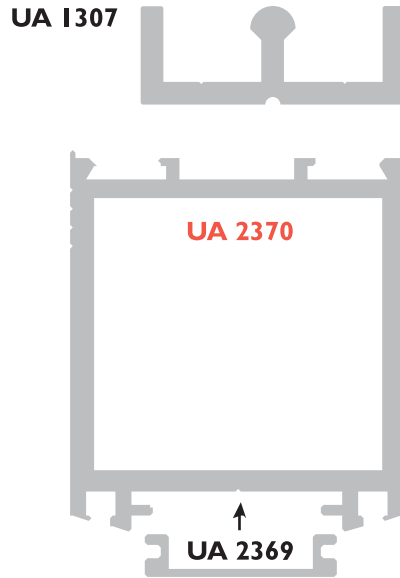
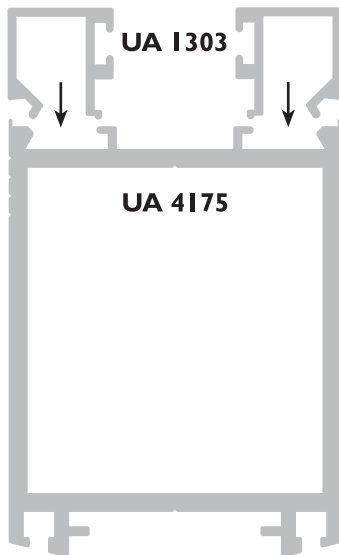
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Edition 18 - 2021

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

**UA 1307**  
BOTTOM TRACK  
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

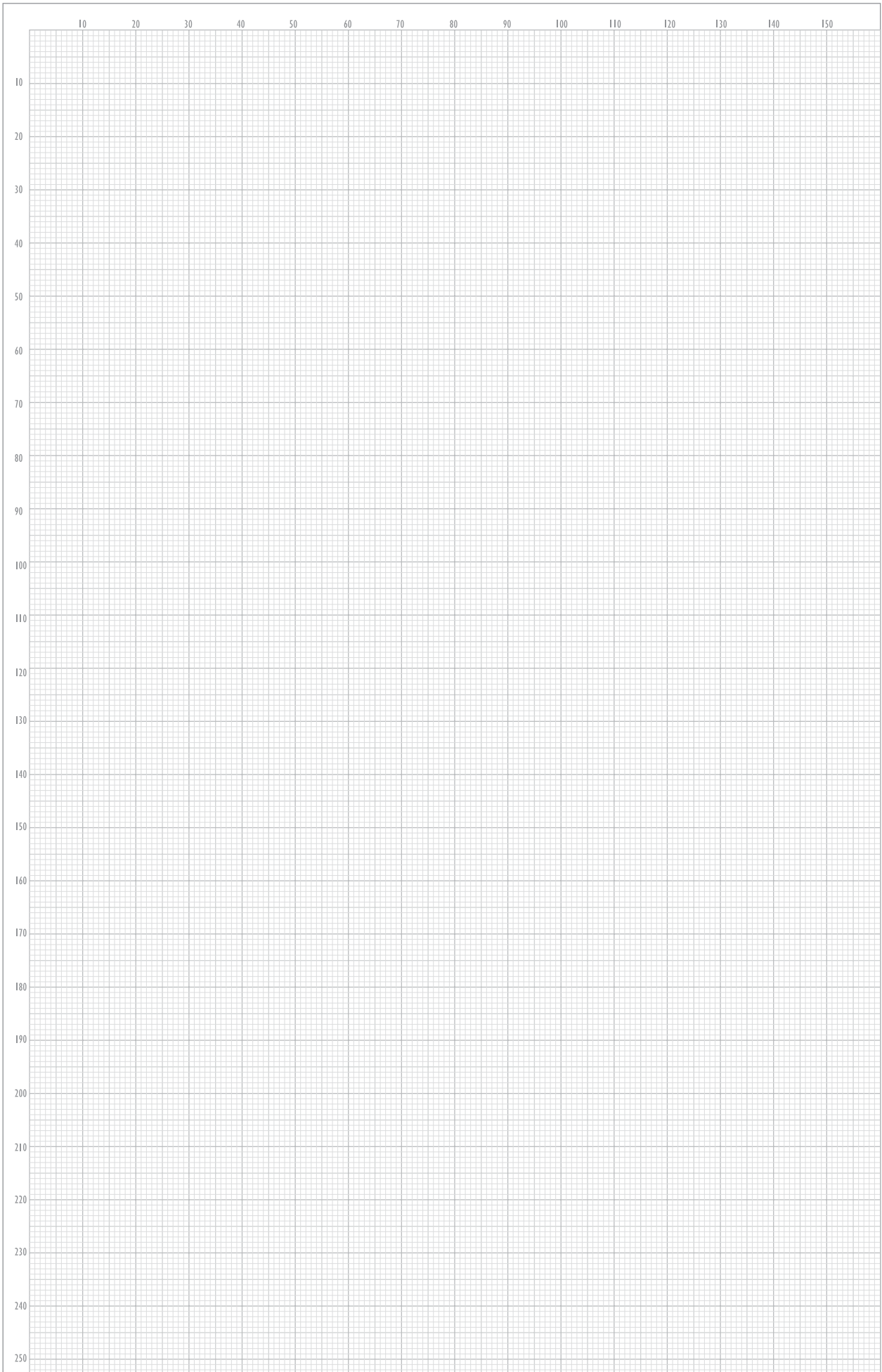
**UA 4907 (MR)**  
HINGE STILE  
kg/m 1.494 P 294  
OAD 68 x 44

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

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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
<b>UA 6397</b>	<b>10mm SLAT INSERT</b>
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

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**MINIMUM ORDER  
QUANTITY 200KG**

CONTACT YOUR LOCAL  
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



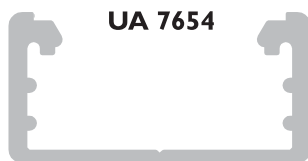
UA 7694



UA 6857



UA 7654



UA 7613



UA 5949



UA 9102



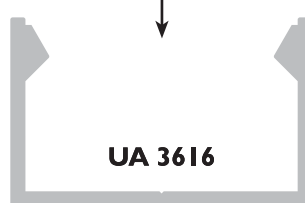
UA 7656



UA 9098



UA 3616



UA 7657



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 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

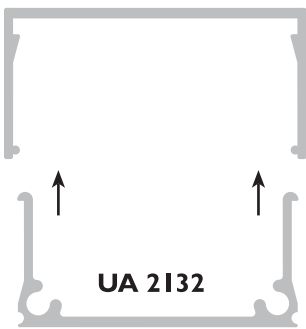
UA 6394

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

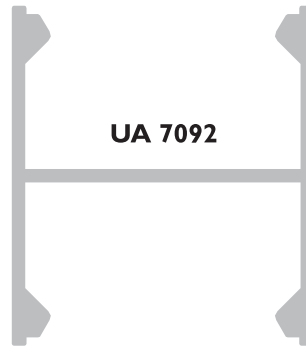


UA 2132

UA 3616



UA 7092



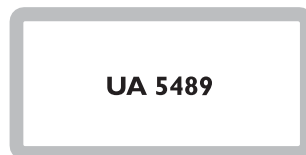
UA 1225



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

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**FENCE PANELS & GATES**

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

**FENCE POSTS**

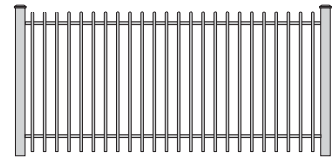
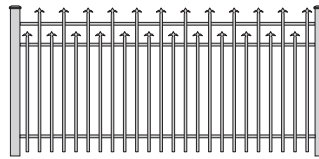
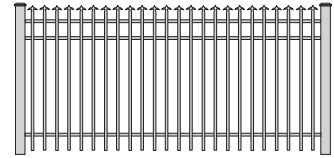
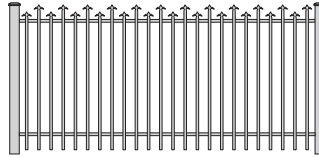
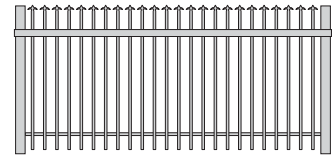
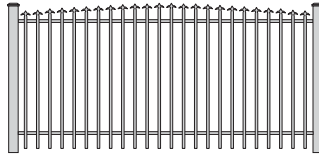
Various size and strength options available to suit the application required.

**CAST BRACKETS**

Modular Brackets  
Post Bases  
Fence Caps

**CAST TOPS**

Fence or Gate Top options to complete your design.



**UAF 05**  
Button Top



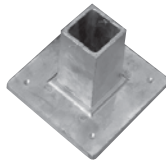
**UC 1984**  
45mm Football



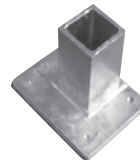
**UC 1941**  
95mm Spear



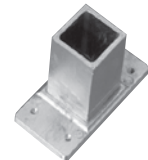
**UC 1510**  
75mm Spike



**UC 1981**  
Fence Post Base Full



**UC 1982**  
Fence Post Base 3/4



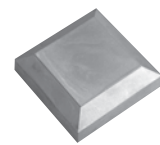
**UC 1983**  
Fence Post Base 1/2



**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. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.

OAD = OVERALL DIMENSIONS  
P = EXT PERIPHERY

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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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OTHERWISE INDICATED.  
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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.

**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

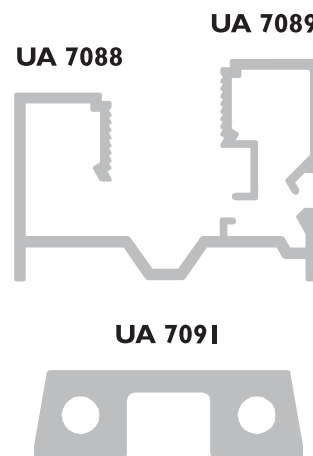
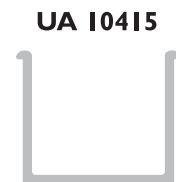
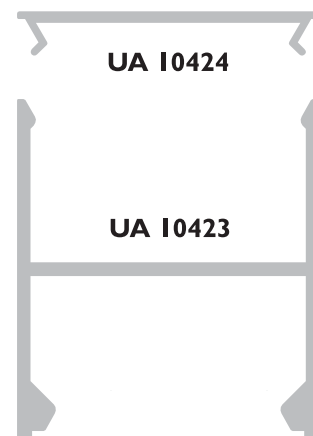
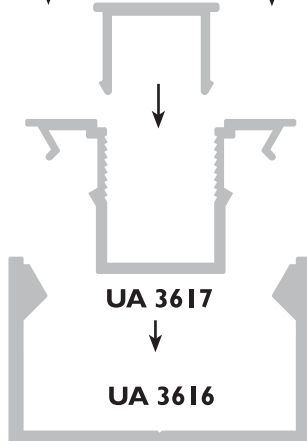
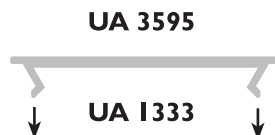
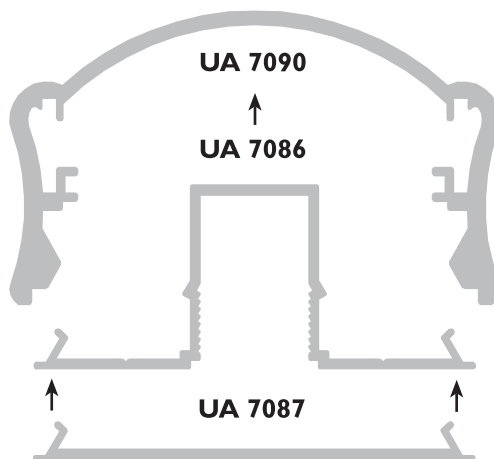
**UA 6396**  
20mm SLAT INSERT  
kg/m 0.314 P 164  
OAD 35.85 x 20

**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



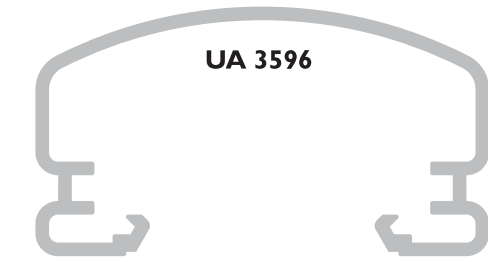
DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.  
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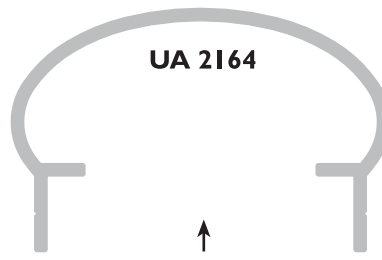
Edition 18 - 2021

**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 2164

**UA 1333**

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

**UA 2131**

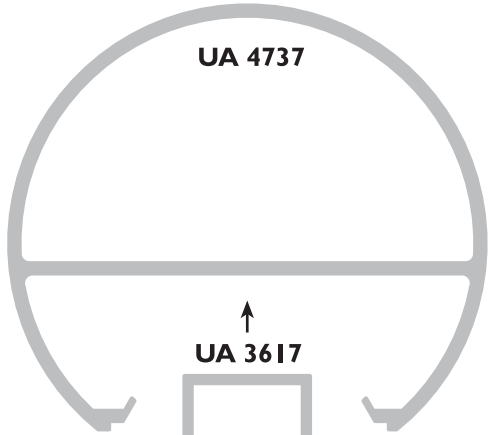
RAIL CHANNEL  
kg/m 0.286 P 161  
OAD 40 x 20

**UA 2132**

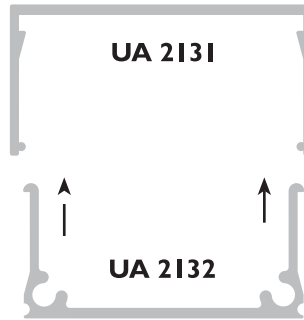
RAIL INSERT  
kg/m 0.302 P 155  
OAD 37 x 17.9

**UA 2164**

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



UA 4737



UA 2131

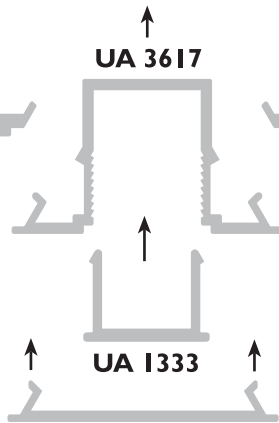
UA 2132

**UA 3595**

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

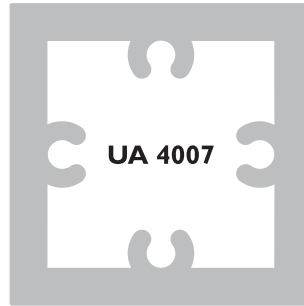
**UA 3596**

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



UA 3617

UA 1333



UA 4007

**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**

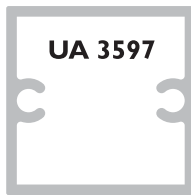
POST  
kg/m 2.165 P 160  
OAD 40 x 40

**UA 4737**

HANDRAIL  
kg/m 1.137 P 284  
OAD 63.5 x 56.57

**UA 6585 (MR)**

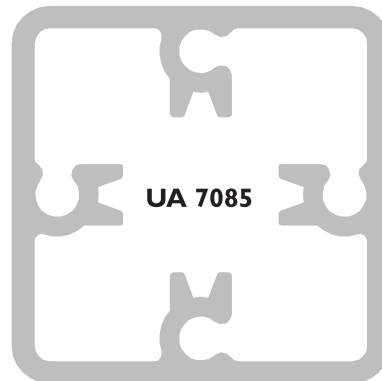
POST  
kg/m 4.496 P 200  
OAD 60 x 40



UA 3597



UA 1044



UA 7085



UA 6585

**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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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 UCI987

**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

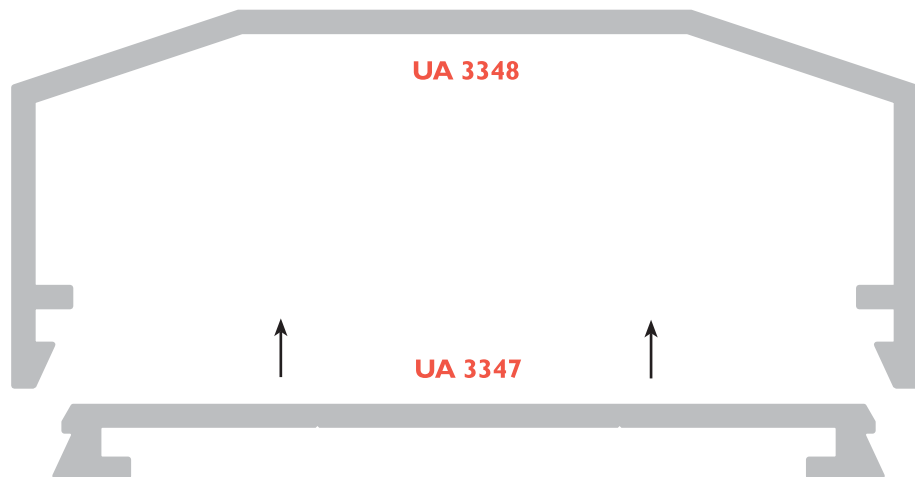
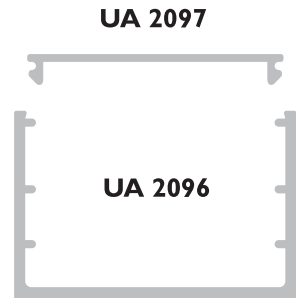
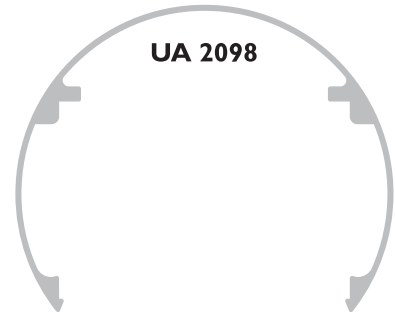
**UA 3348 (MR)**  
HIGHWAY HANDRAIL  
kg/m 1.729 P 428  
OAD 120 x 50

**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 50

**UA 6395**



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## 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

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NOTE: RED INDICATES  
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MINIMUM ORDER  
QUANTITY 200KG

CONTACT YOUR LOCAL  
BRANCH TO ENQUIRE

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## 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**

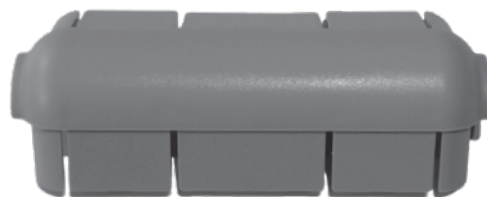
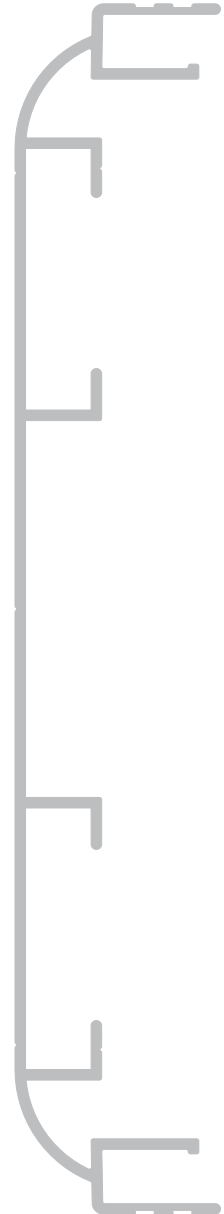
7mm SIGN FRAME  
kg/m 2.383 P 701  
OAD 200 x 20

**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



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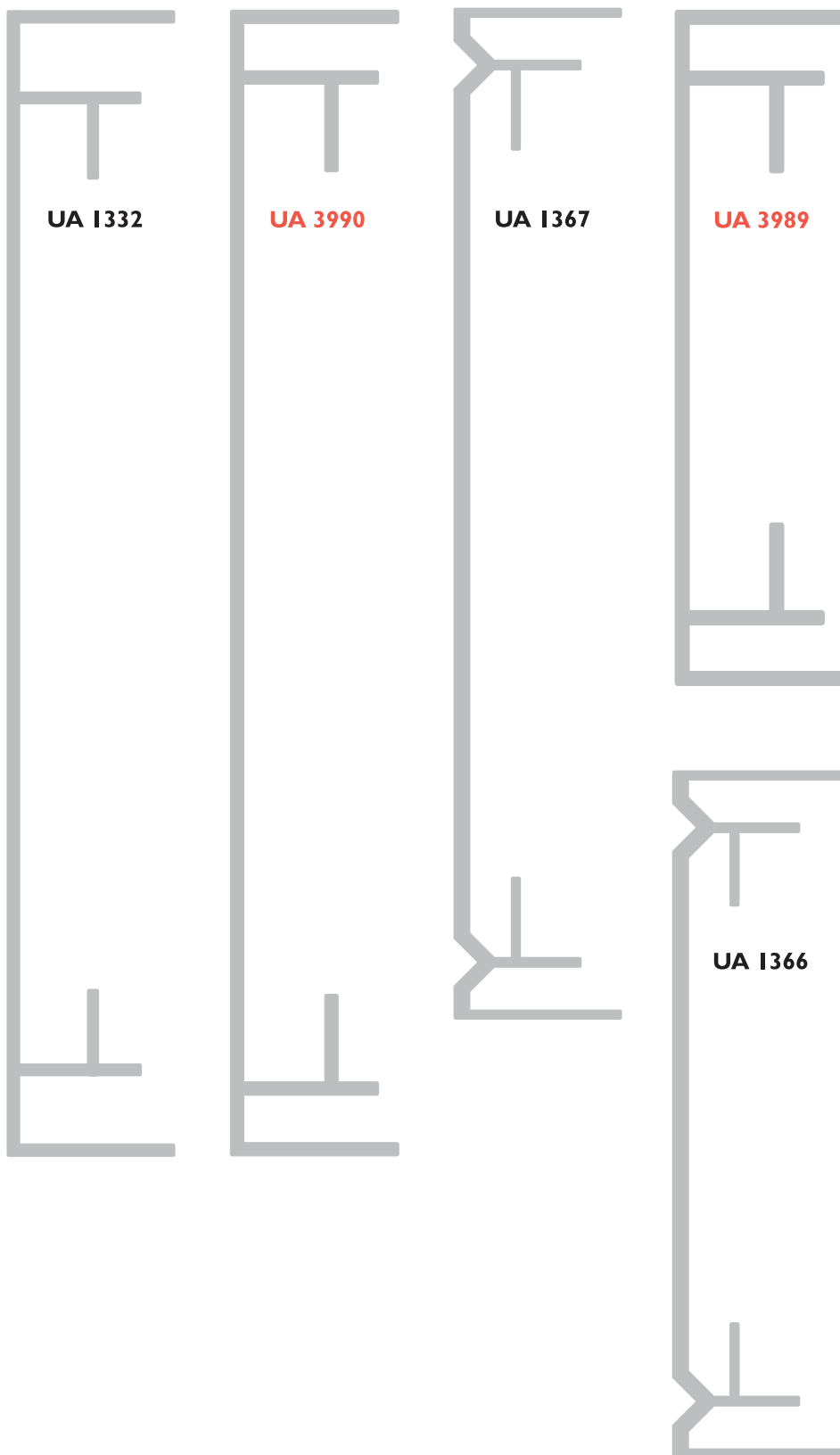
**OAD** = OVERALL DIMENSIONS  
**P** = EXT PERIPHERY

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Edition 18 - 2021

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**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**

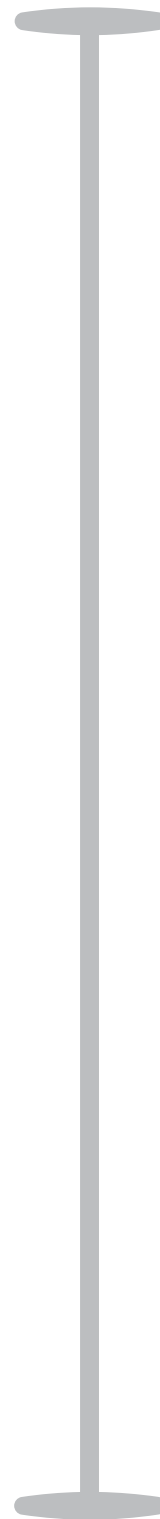
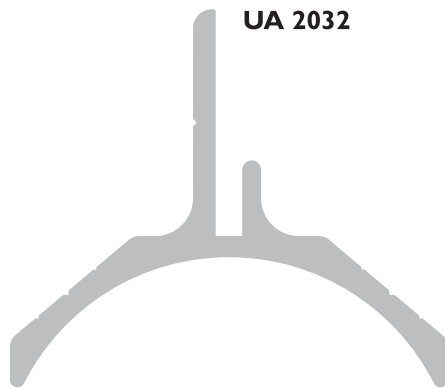
STREET SIGN BLADE  
 kg/m 1.632 P 466  
 OAD 200 x 20

**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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**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

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MINIMUM ORDER  
QUANTITY 200KG

CONTACT YOUR LOCAL  
BRANCH TO ENQUIRE

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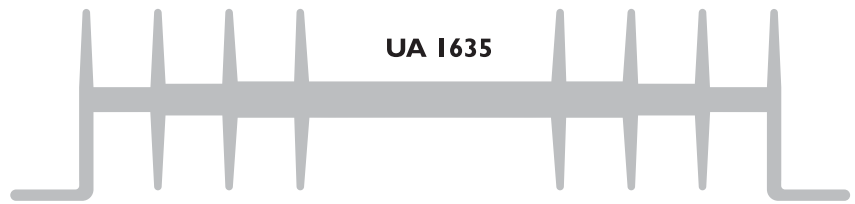


**UA 1635**

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 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

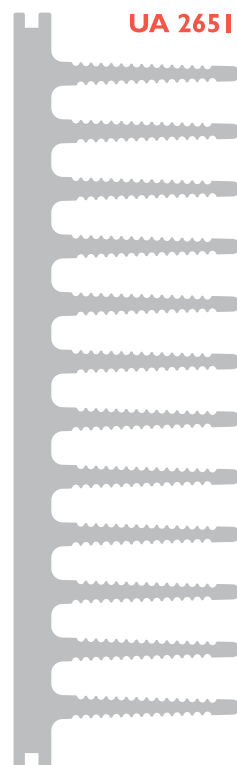
OAD 150 x 40

**UA 4718 (MR)**

HEATSINK

kg/m 1.003 P 520

OAD 101.6 x 7.62

**UA 2651****UA 4718**

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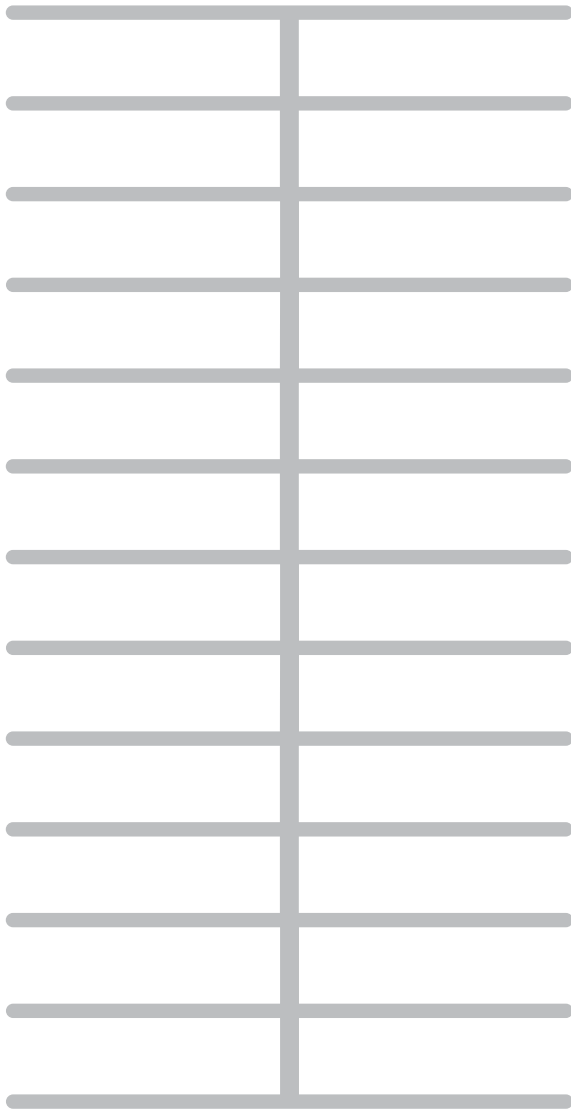
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Edition 18 - 2021

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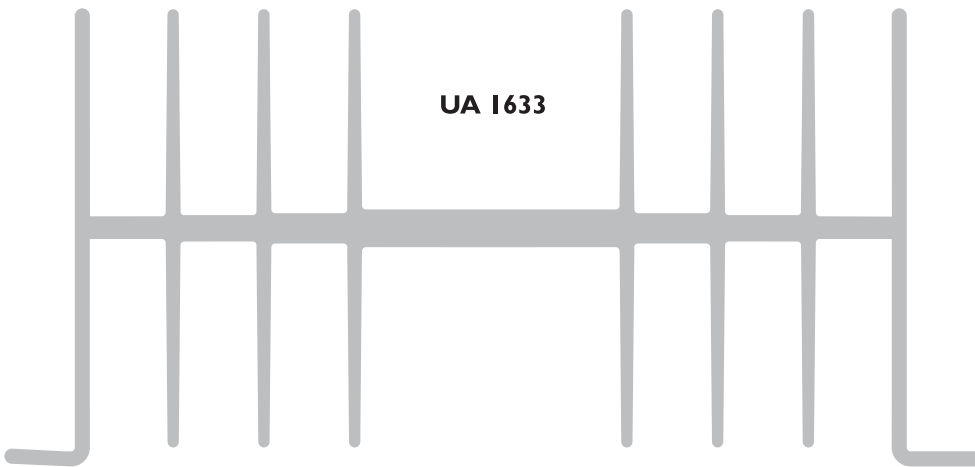


**UA 4173****UA 1633**

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

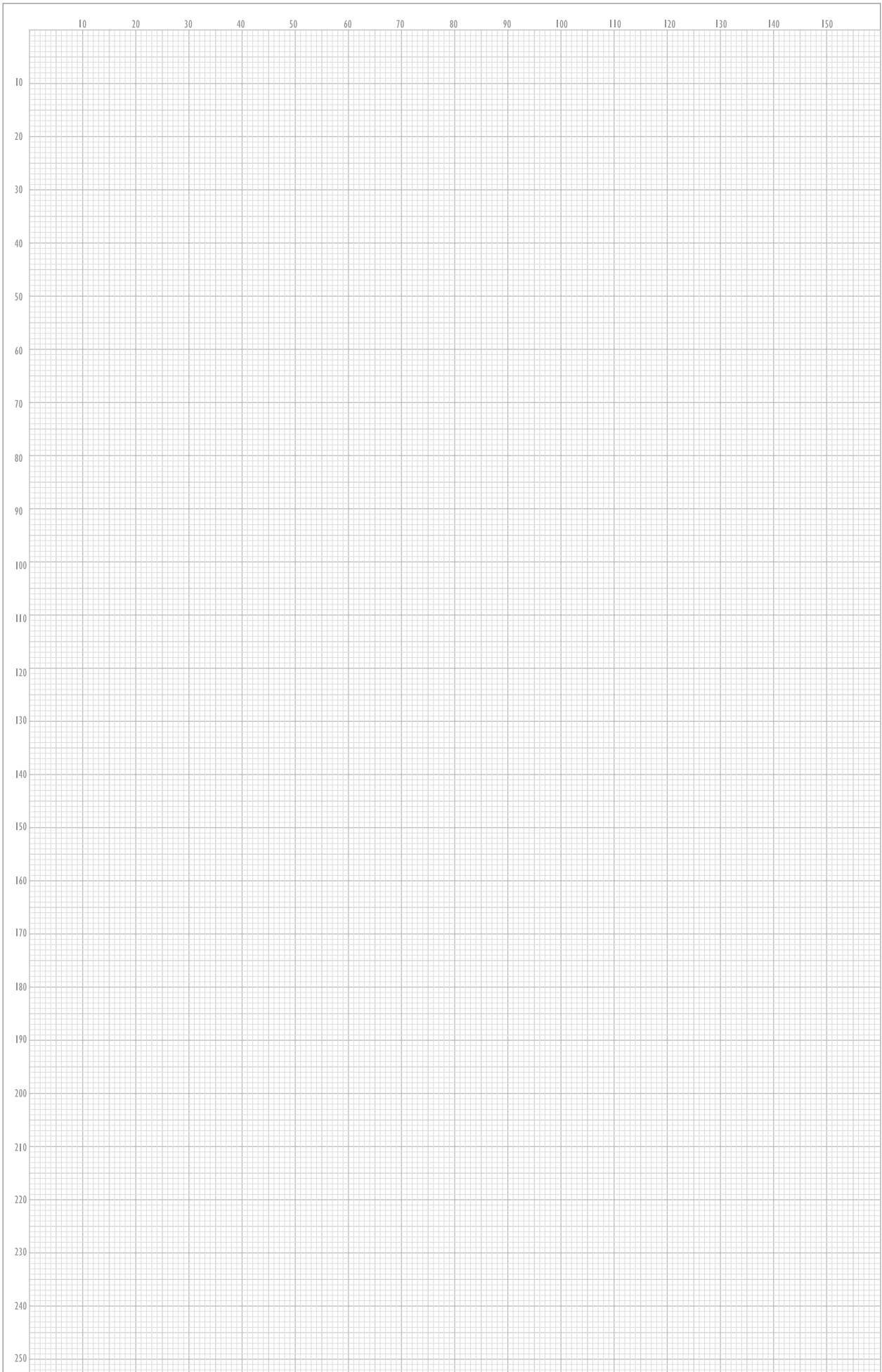
**UA 1633**

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DIE No	DESCRIPTION
<b>WARDROBE - CAVITY</b>	
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

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MINIMUM ORDER  
QUANTITY 200KG

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#### 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

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**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)**

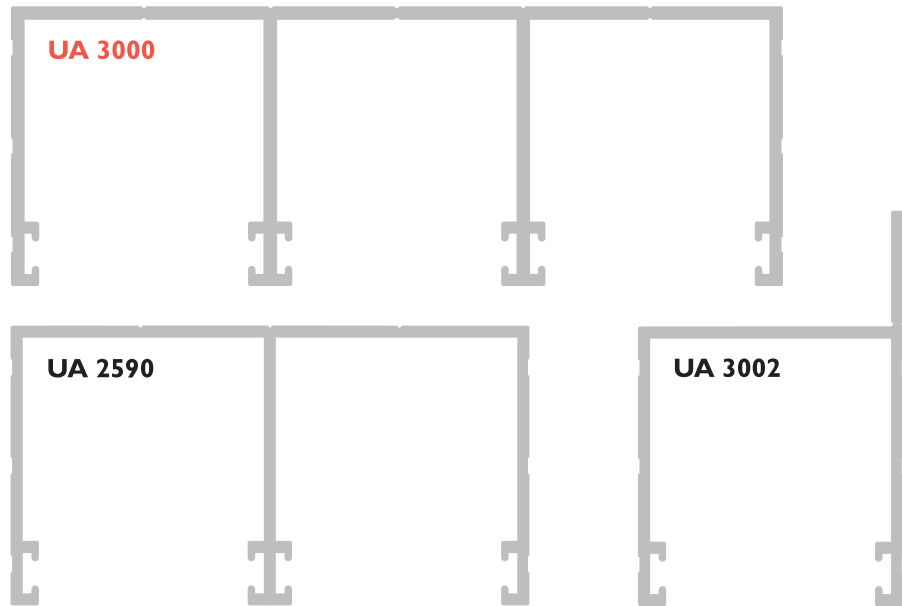
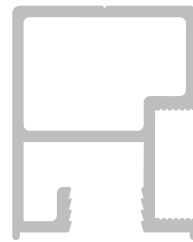
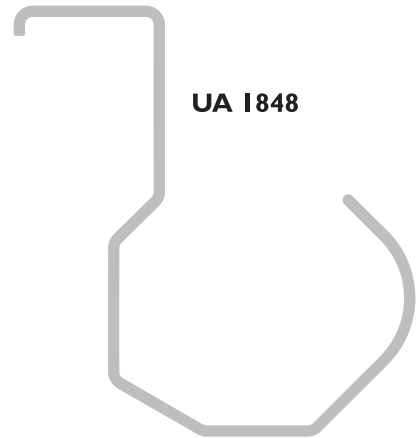
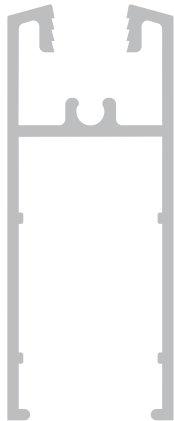
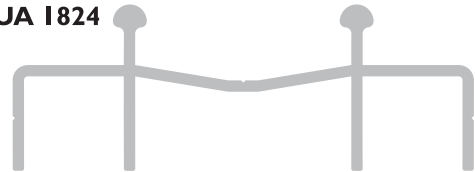
TRIPLE TRACK  
kg/m 0.819 P 388  
OAD 102.1 x 22

**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

**UA 1821****UA 1820****UA 1848****UA 1822****UA 1824****UA 2999**

DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.

**OAD** = OVERALL DIMENSIONS

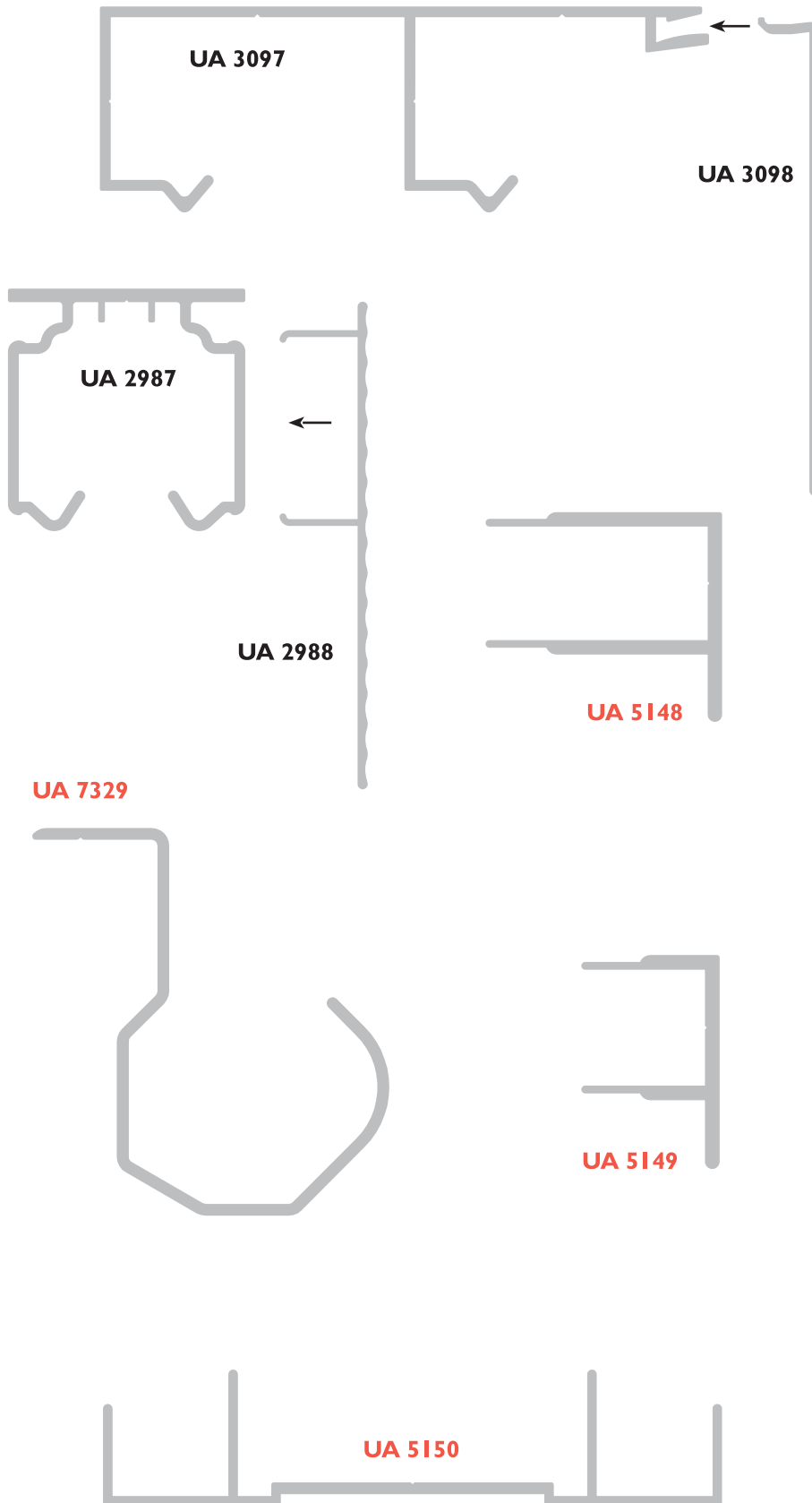
**P** = EXT PERIPHERY

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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 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 OTHERWISE INDICATED.  
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**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**

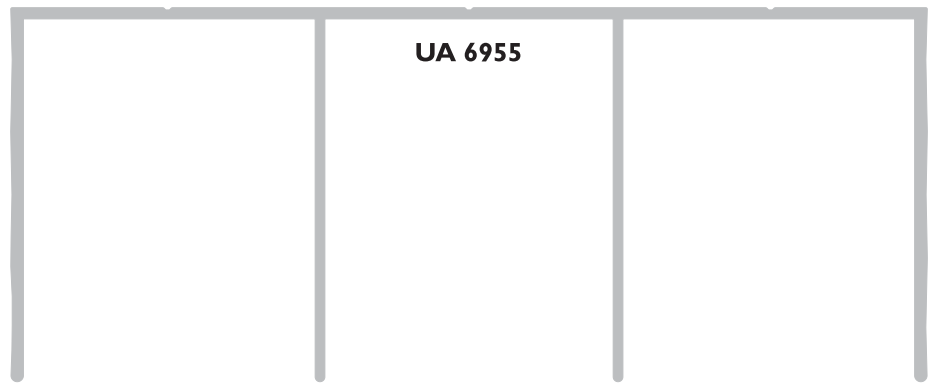
DOUBLE SILL  
kg/m 0.592 P 277  
OAD 82.1 x 25.2

**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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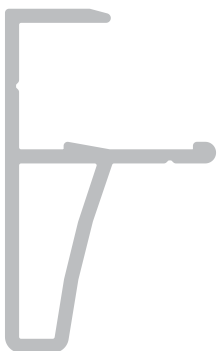
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Edition 18 - 2021

**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.

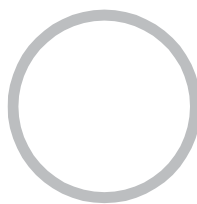
**UA 6556**



**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

**ACCESSORIES:**

**WVG300 DOOR ROLLER**

Code: WARDVGBEARING

**WVG100 HEAD GUIDE**

Code: WARDVGGUIDEWHPR

**WVG130WH OVAL RAIL BRACKET**

Code: WARDVGOVALBKTWH

**WA200CL 4mm GLAZING CHANNEL**

Code: WARDVGGGLASSFR

**WVG200 STILE BUFFER STRIP**

Code: WARDVGBUFFERFR

**UA 8767**



**UA 8560 (MR)**

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

**UA 8767 (MR)**

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

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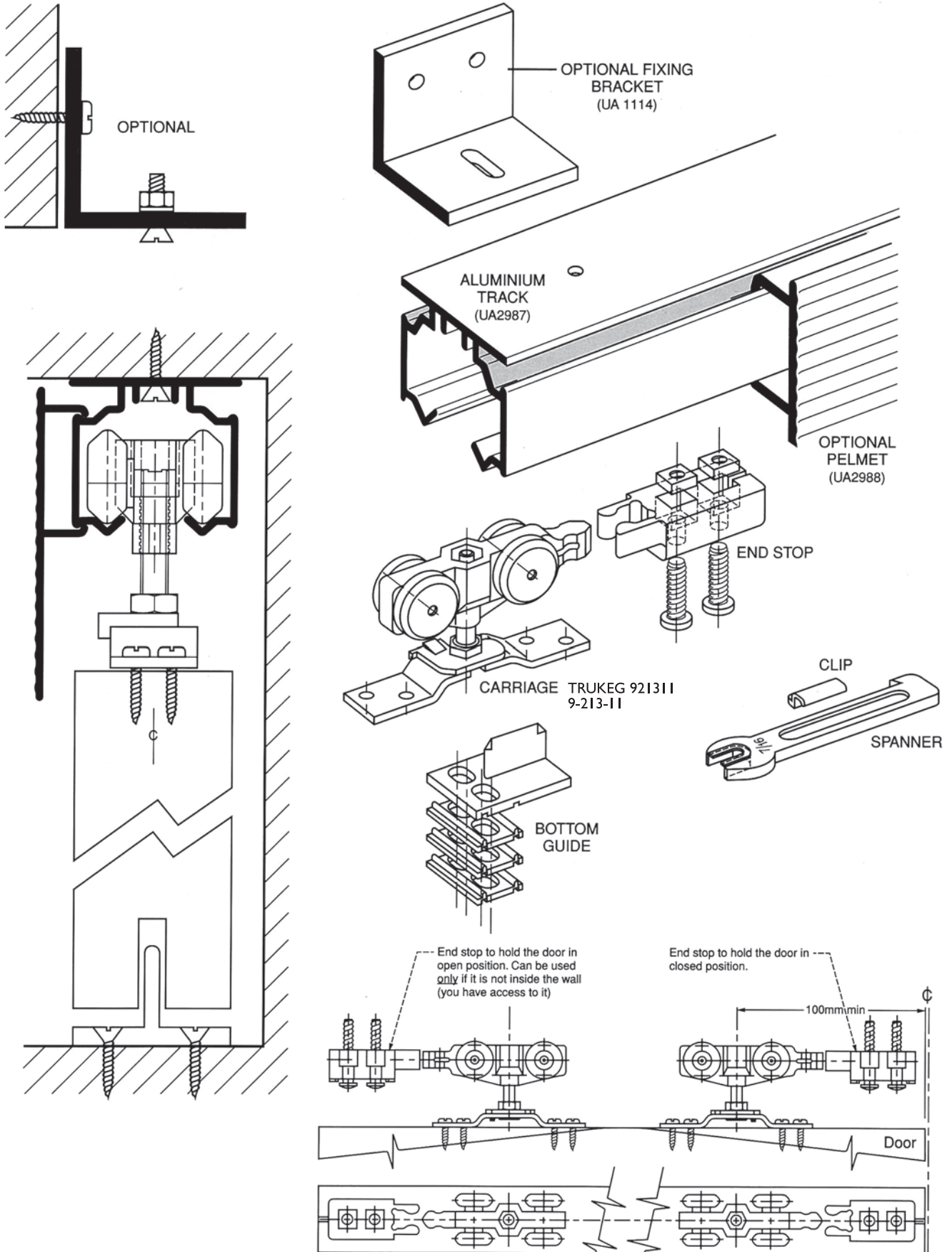
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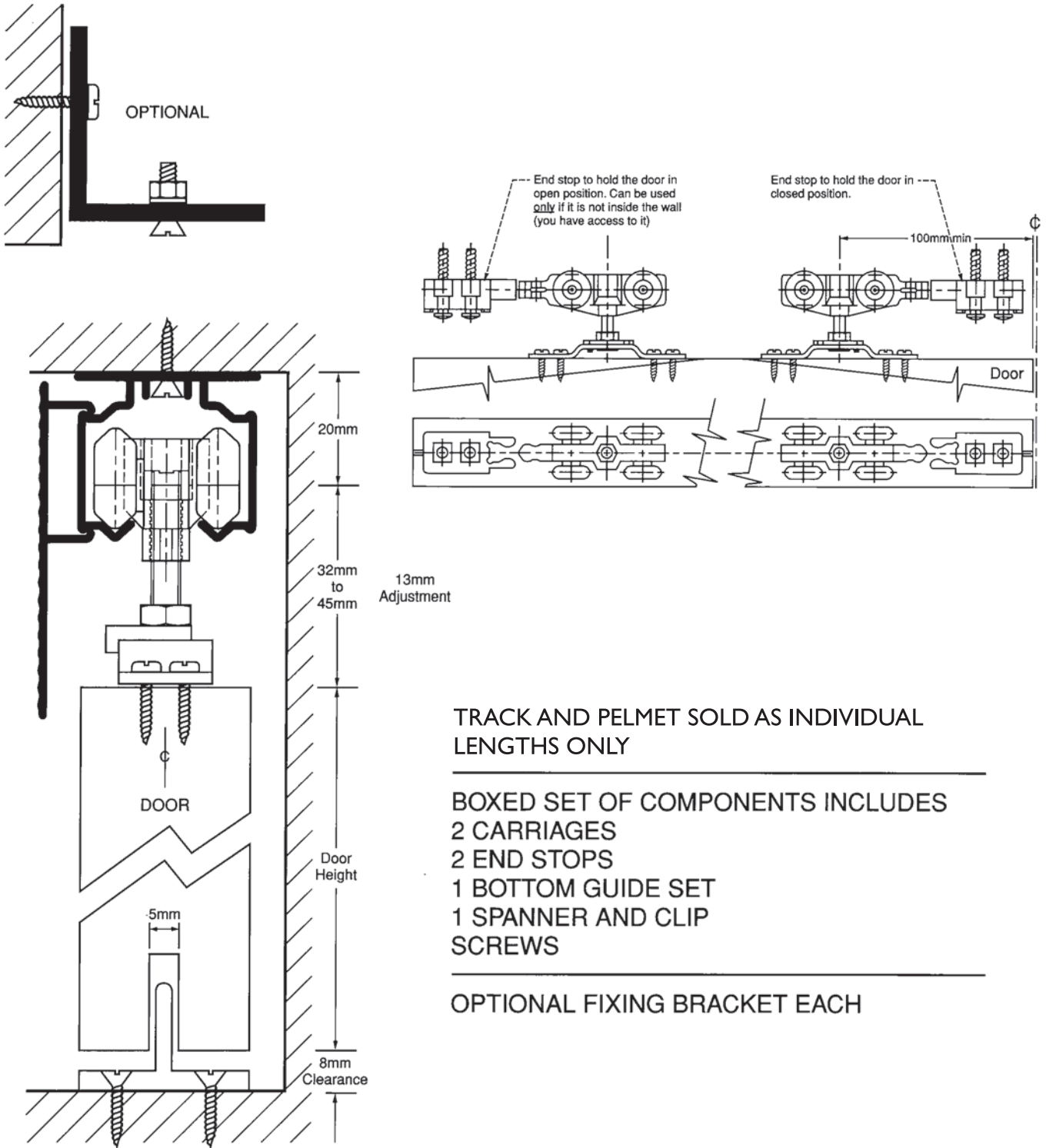
**MR = MILL RUN ONLY · NON-STOCKED ITEM · MINIMUM ORDER 200KG**

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



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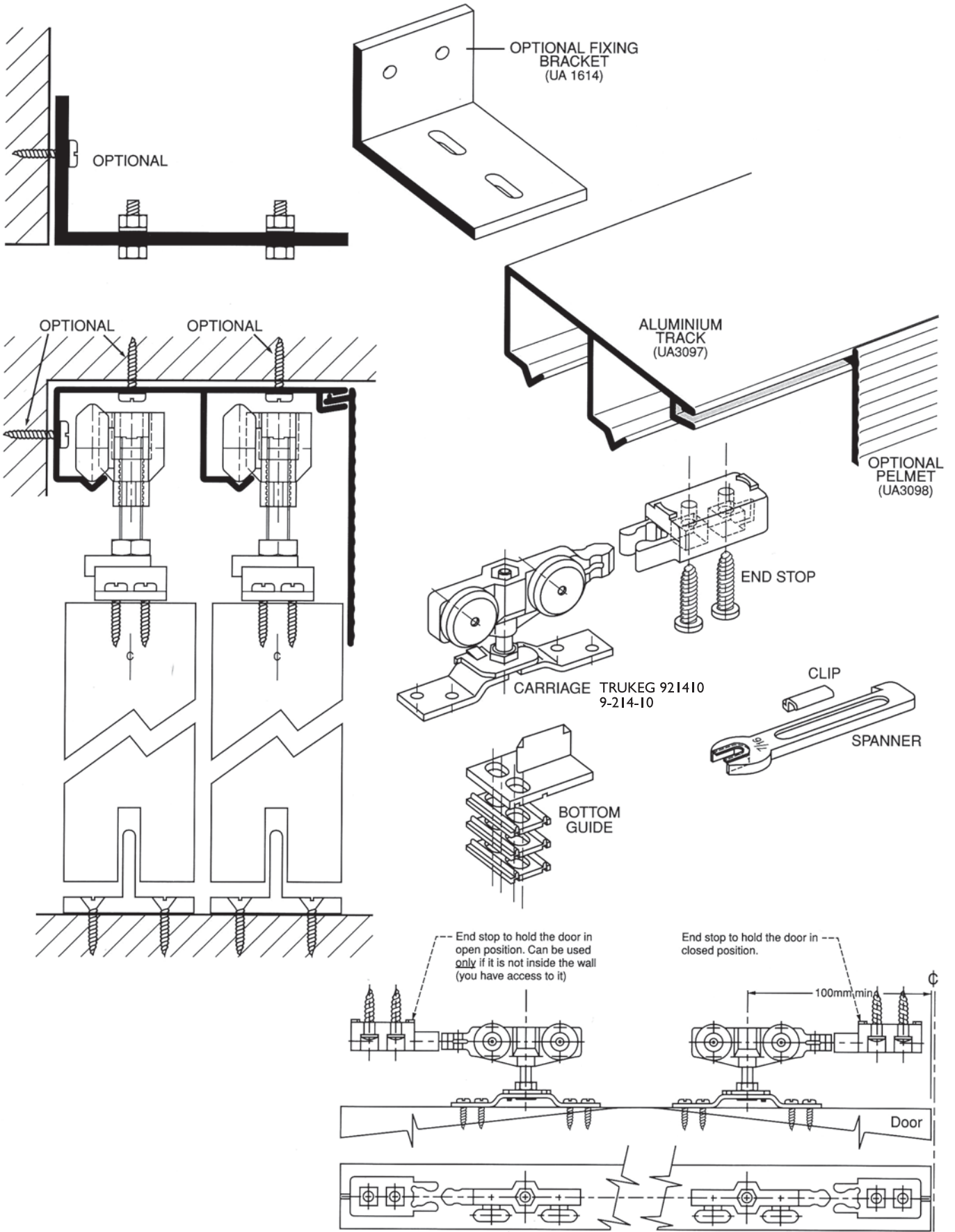
TRACK AND PELMET SOLD AS INDIVIDUAL LENGTHS ONLY

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. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.  
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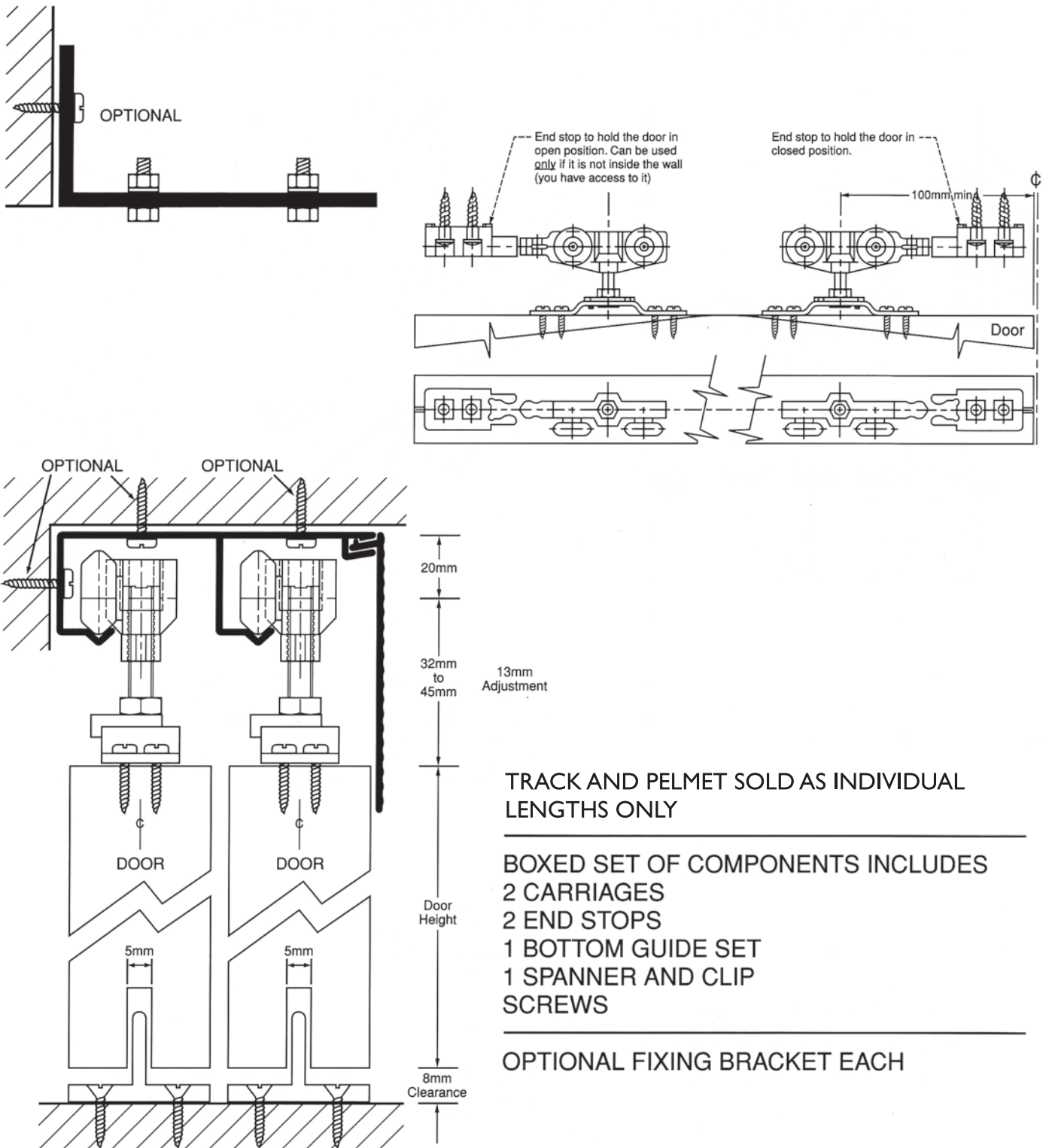




DIAGRAMS ACTUAL SIZE UNLESS OTHERWISE INDICATED. DIAGRAMS ARE SCHEMATIC ONLY AND NOT INTENDED AS SPECIFICATION DRAWINGS.

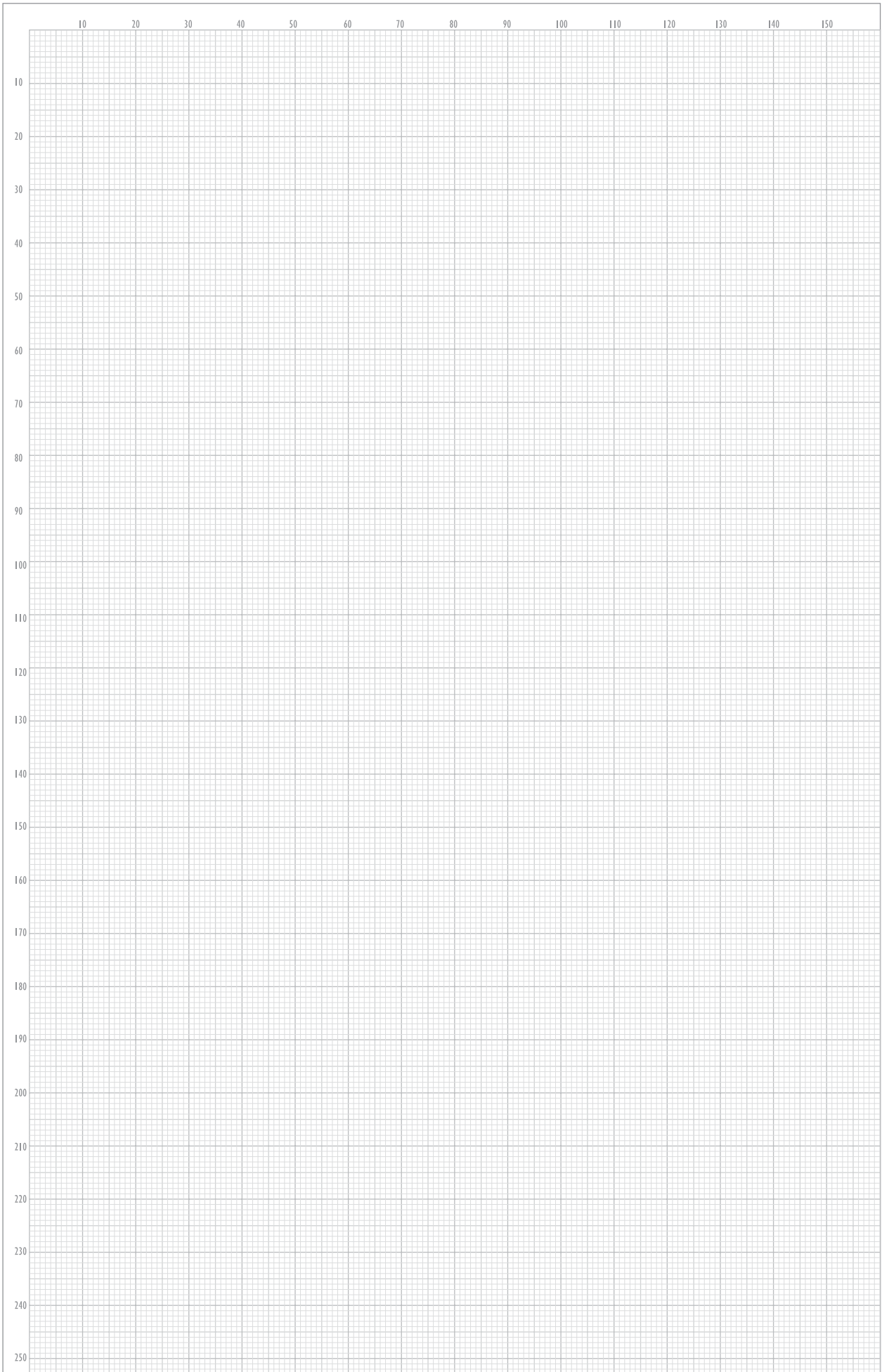
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DIE No	DESCRIPTION	DIE No	DESCRIPTION
UA 1340	LT7 DOOR CAP	UA 3465	TOE BOARD
UA 1341	SLIDING DOOR TRACK	UA 3703	TRACK
UA 1342	3mm SPLIT TEE	UA 3769	SLIDING DOOR TEE
UA 1343	SLIDING DOOR TEE	UA 4130	GLASS CHANNEL
UA 1345	DOOR TEE	UA 4382	CONCRETE SCREED
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 SPLIT TEE		
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

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**UA 1341**

SLIDING DOOR TRACK  
kg/m 0.083 P 37  
OAD 12 x 7

**UA 1341****UA 1343****UA 3769****UA 1342**

3mm SPLIT TEE  
kg/m 1.035 P 226  
OAD 57 x 32

**UA 2154****UA 2229****UA 1345****UA 1343**

SLIDING DOOR TEE  
k/gm 0.173 P 66  
OAD 20.3 x 13.5

**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 2229**

DOOR TRACK  
kg/m 0.241 P 95  
OAD 25 x 22.8

**UA 1342****UA 3016****UA 3016 (MR)**

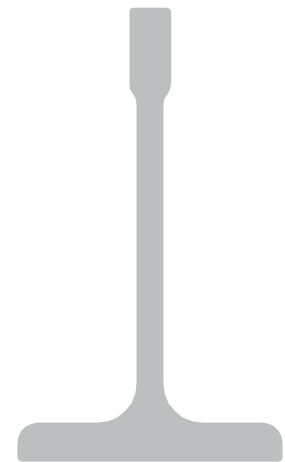
4mm SPLIT TEE  
k/gm 1.039 P 226  
OAD 57 x 32

**UA 3769 (MR)**

SLIDING DOOR TEE  
k/gm 0.364 P 80  
OAD 25.4 x 15.9

**UA 6341 (MR)**

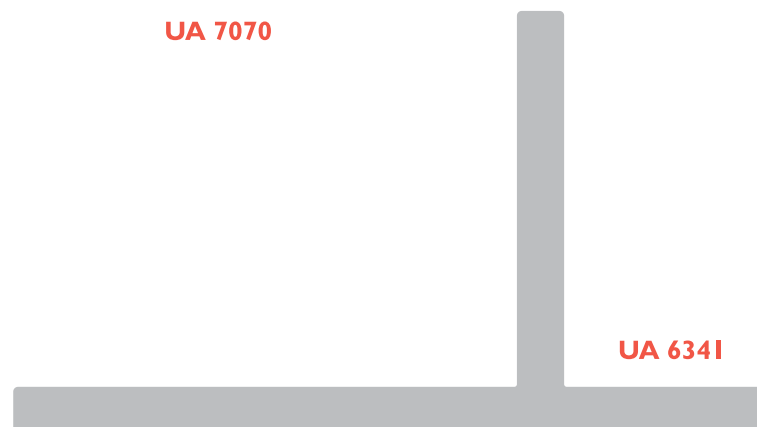
OFFSET TEE  
k/gm 2.429 P 311  
OAD 100 x 56

**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**

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Edition 18 - 2021

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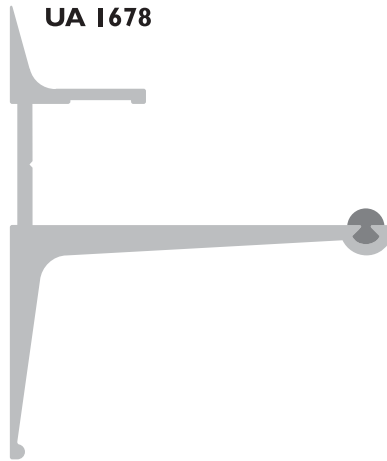
UA 1679



UA 1663

**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



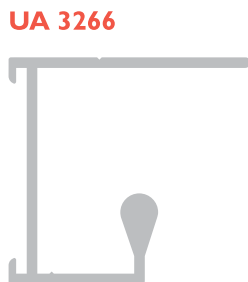
UA 1678



UA 2589

**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 3266



UA 1340

UA 3465



**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



UA 2086



UA 4980

**INFILLS SOLD SEPARATELY**

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**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 I379 ( 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  
CURENSDW



**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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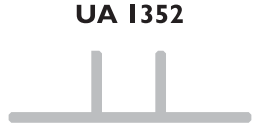
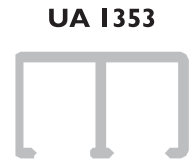
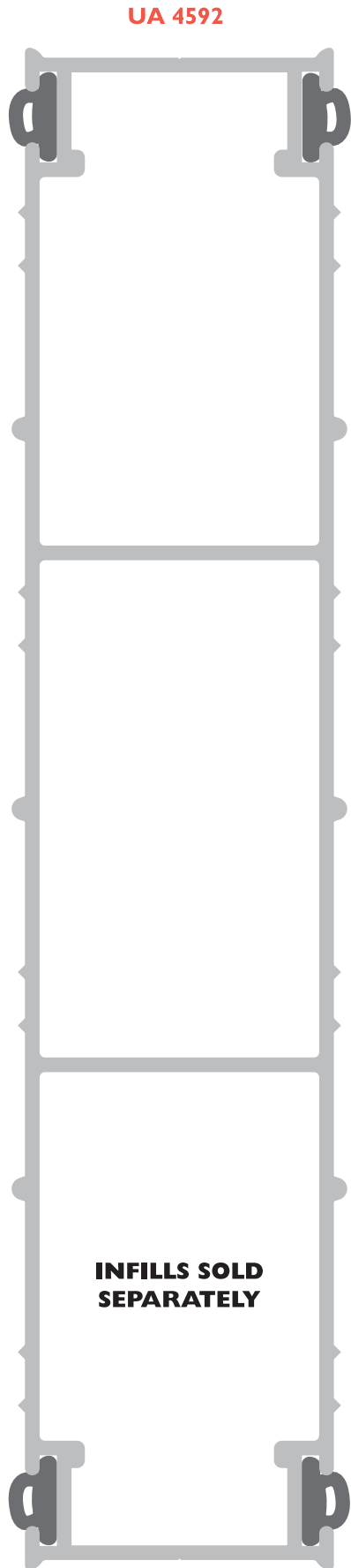
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- UA I352**  
6mm GLASS SILL  
kg/m 0.182 P 99  
OAD 32 x 9.5
- UA I353**  
6mm GLASS TRACK Top  
kg/m 0.232 P 131  
OAD 23 x 14
- UA I354**  
6mm GLASS TRACK Base  
kg/m 0.179 P 99  
OAD 23 x 8
- UA I356**  
6mm GLASS JOINTER  
kg/m 0.159 P 82  
OAD 16 x 10.5
- UA I363**  
16mm CUPBOARD PULL  
kg/m 0.314 P 130  
OAD 34 x 18
- UA I492**  
SCALLOP MOULD  
kg/m 0.729 P 131  
OAD 63.5 x 6.35
- UA I643**  
16mm DRAWER PULL  
kg/m 0.546 P 164  
OAD 44 x 17.4
- UA I950**  
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 I13

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**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)**

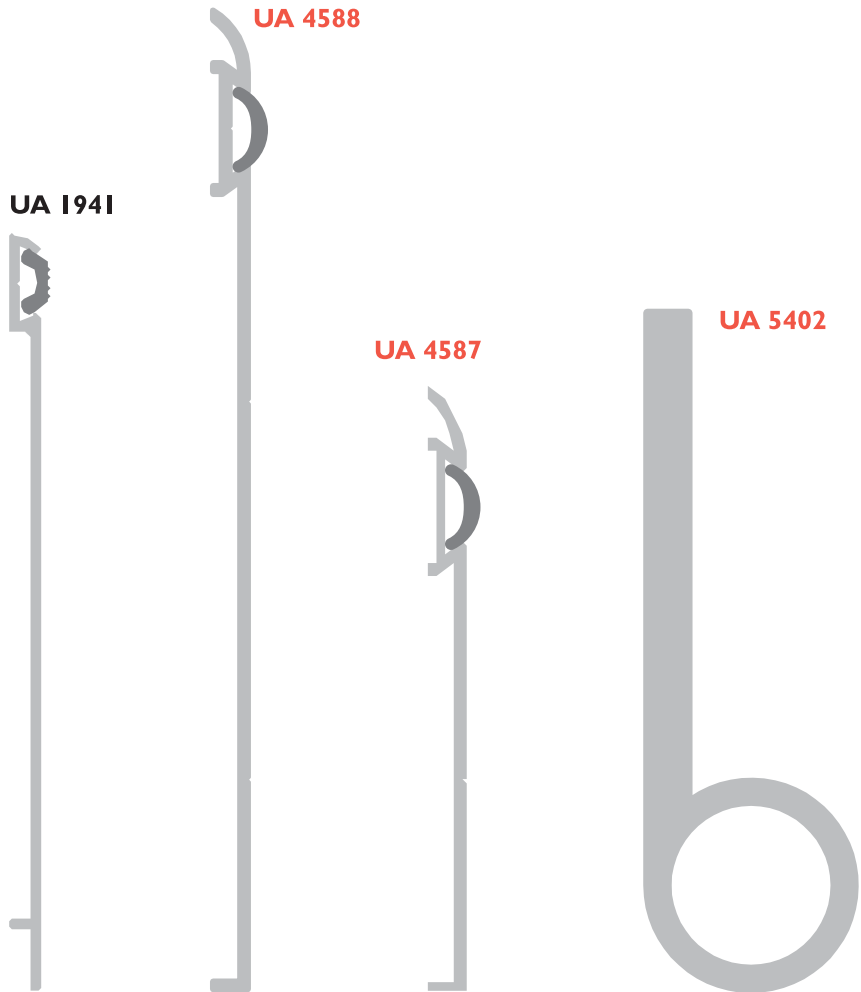
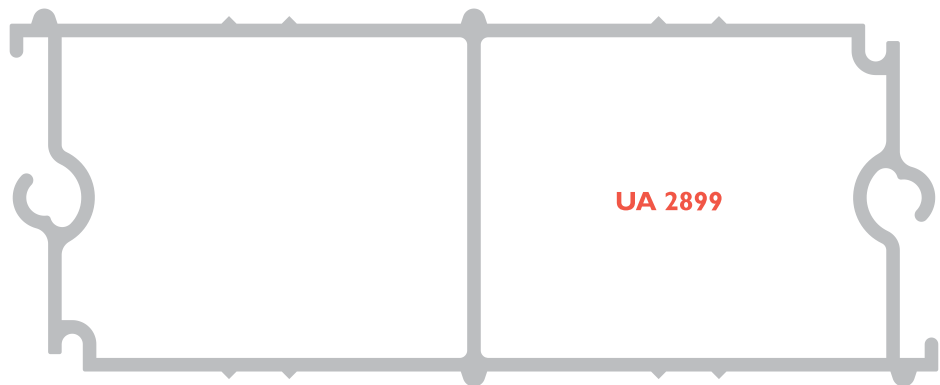
SKIRTING  
kg/m 0.414 P 194  
OAD 80 x 5.2 Infill 12

**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**

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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 2251 (MR)**

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

**UA 2462**

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

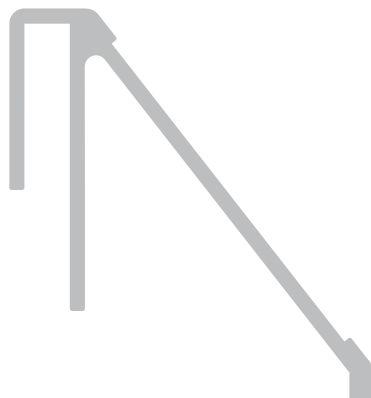
**UA 2482**

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

UA 2462



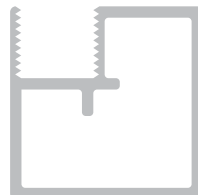
UA 1390



UA 1391



UA 1392



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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.

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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**

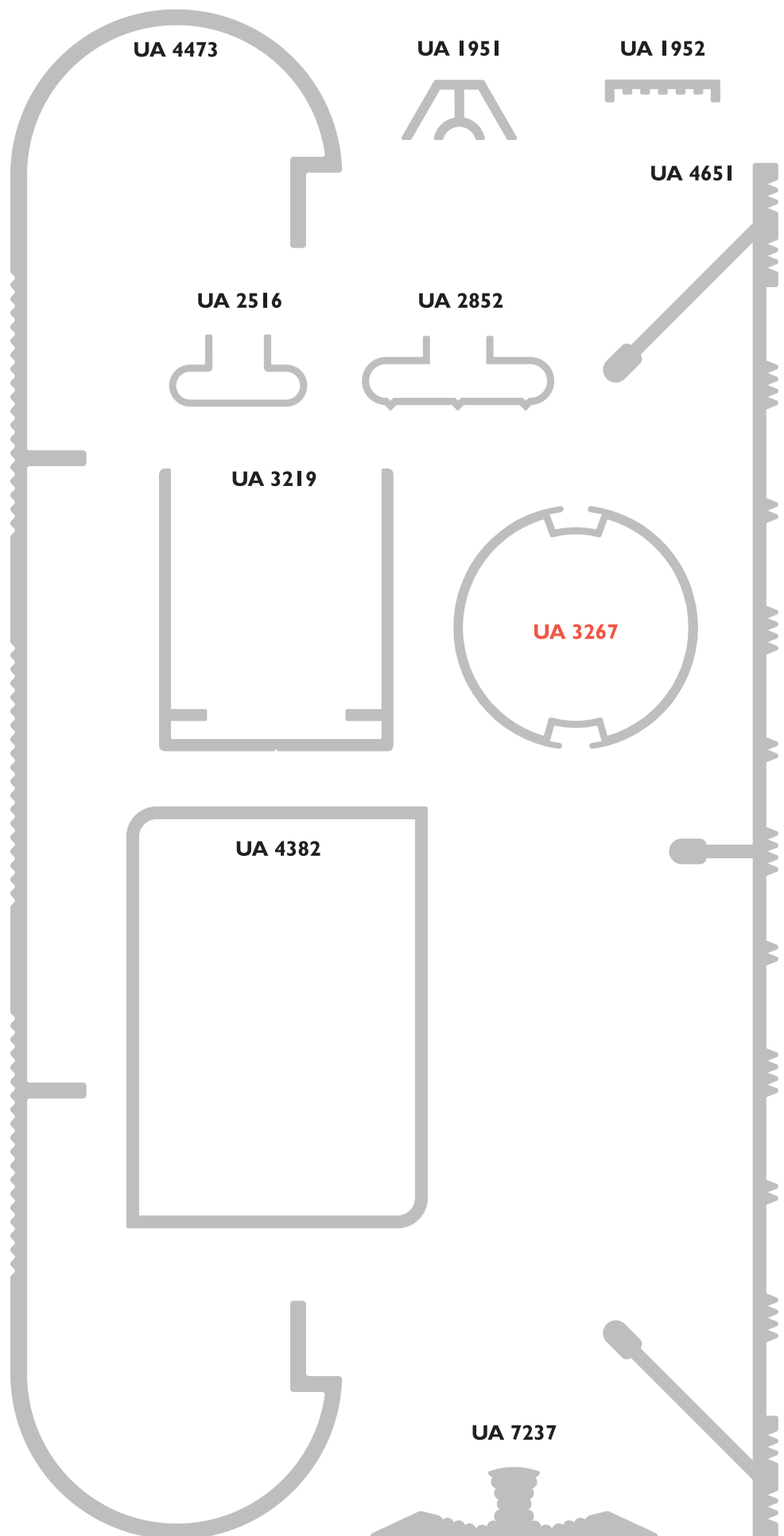
RULER  
kg/m 0.507 P 128  
OAD 47.5 x 12.5



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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**

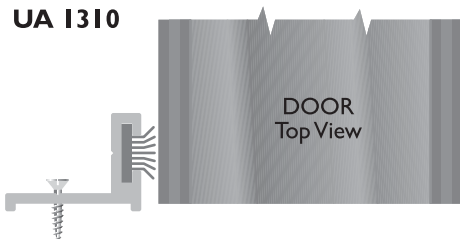
**CONTACT YOUR LOCAL  
BRANCH TO ENQUIRE**

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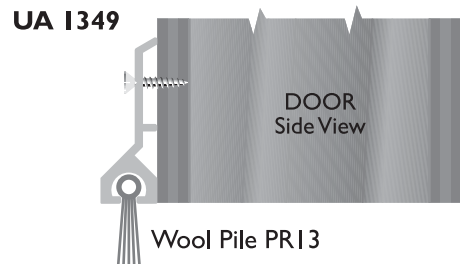
DIAGRAMS ACTUAL SIZE UNLESS  
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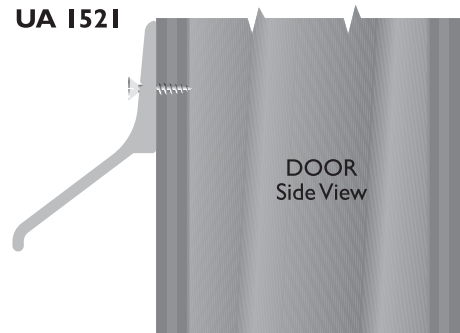
**UA 1310**  
 DRAFT EXCLUDER  
 kg/m 0.145 P 75  
 OAD 18 x 13



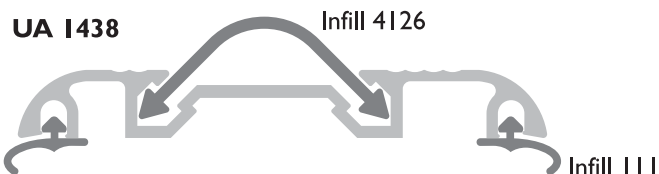
**UA 1349**  
 DRAFT EXCLUDER  
 kg/m 0.123 P 72  
 OAD 22 x 7.5



**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



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**INFILLS SOLD SEPARATELY**

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<b>DIE No</b>	<b>DESCRIPTION</b>
<b>UA 1641</b>	<b>FLANGED FRAME 25mm</b>
<b>UA 1642</b>	<b>FRAME 25mm</b>

---

**NOTE: RED INDICATES  
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**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**

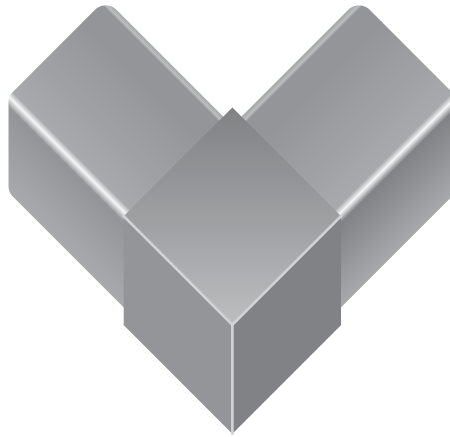
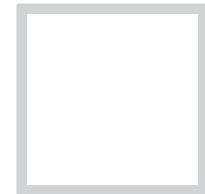
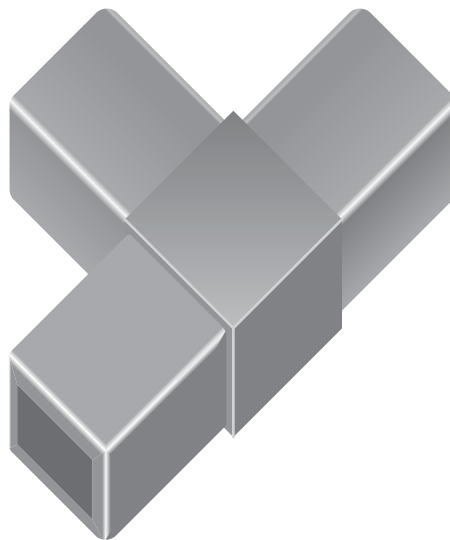
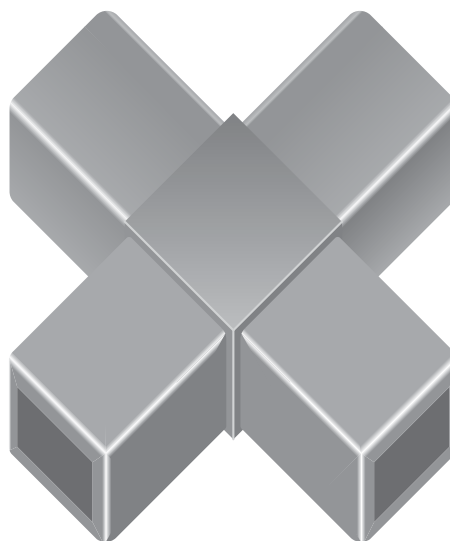
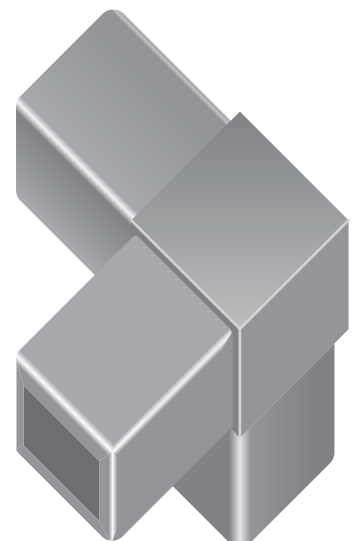
The Ullrich Modular Design System uses a tube-and-jointer construction for DIY shelving, storage, desking and display.

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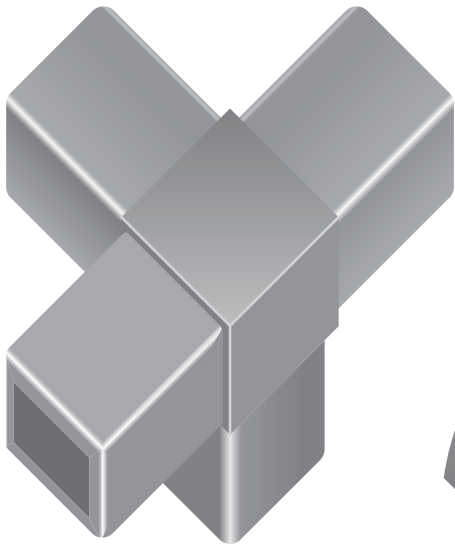
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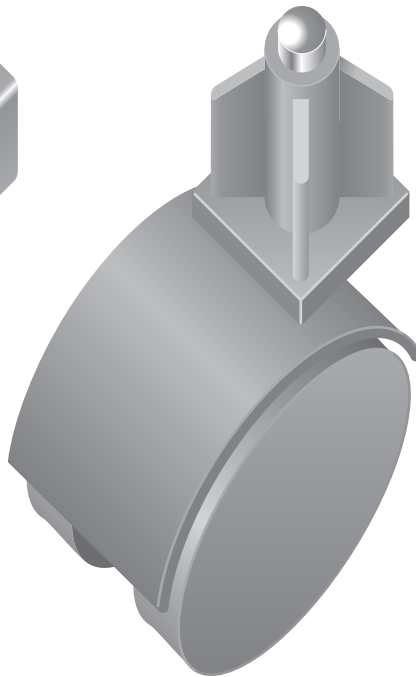
NOTE: Not all products are available ex-stock, check with your local branch for advice on availability.



4 WAY Y SHAPE JOINTER

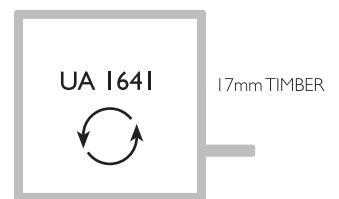
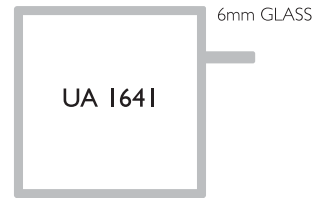


CASTOR



Panelling Options

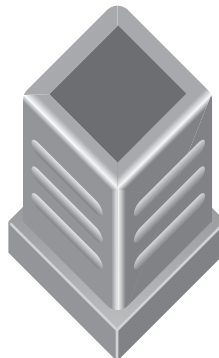
25mm flanged tube is designed to accept 17mm timber or 6mm glass.



5 WAY JOINTER



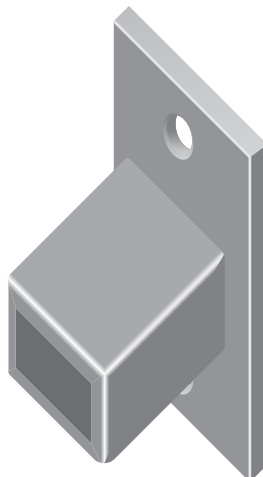
END CAP



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)

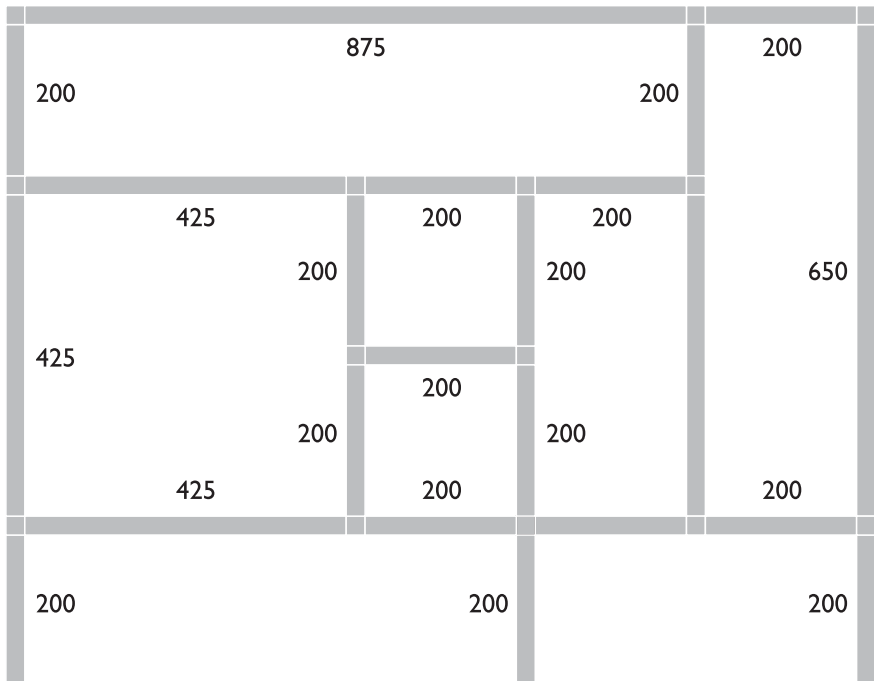


One 425mm module and two 200mm modules (with any four jointers)



Four 200mm modules (with any five jointers)

**Modular construction offers flush-fitting furniture with multiple storage options.**



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<b>DIE No</b>	<b>DESCRIPTION</b>
<b>STORM SHUTTER</b>	
<b>UA 1055</b>	<b>WEDGE PIN</b>
<b>UA 1056</b>	<b>TOP CHANNEL</b>
<b>UA 1057</b>	<b>BOTTOM CHANNEL</b>

**ACCORDION STORM SHUTTER**

<b>UA 2916</b>	<b>STRIKE</b>
<b>UA 2917</b>	<b>LOCK</b>
<b>UA 2918</b>	<b>GUIDE</b>
<b>UA 2919</b>	<b>CHANNEL</b>
<b>UA 2920</b>	<b>WHEEL GUIDE</b>
<b>UA 2921</b>	<b>SHUTTER SLAT</b>
<b>UA 2922</b>	<b>SHUTTER END</b>

---

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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**

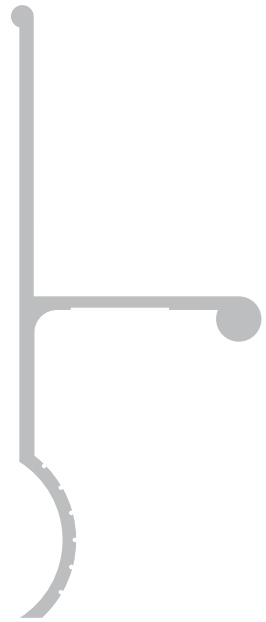
TOP CHANNEL  
kg/m 0.811 P 315  
OAD 70 x 49

**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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UA 2918



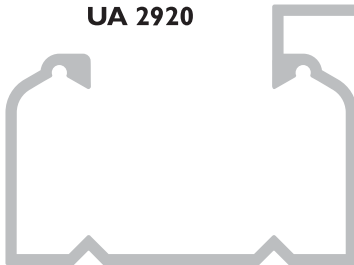
**UA 2916**  
STRIKE  
kg/m 0.899 P 423  
OAD 89.72 x 53.65

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

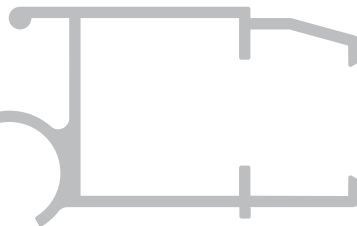
UA 2921



**UA 2920**  
WHEEL GUIDE  
kg/m 0.752 P 360  
OAD 80 x 34.5

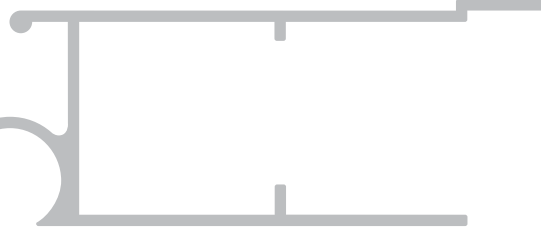
**UA 2921**  
SHUTTER SLAT  
kg/m 0.512 P 255  
OAD 104.37 x 12.37

UA 2916

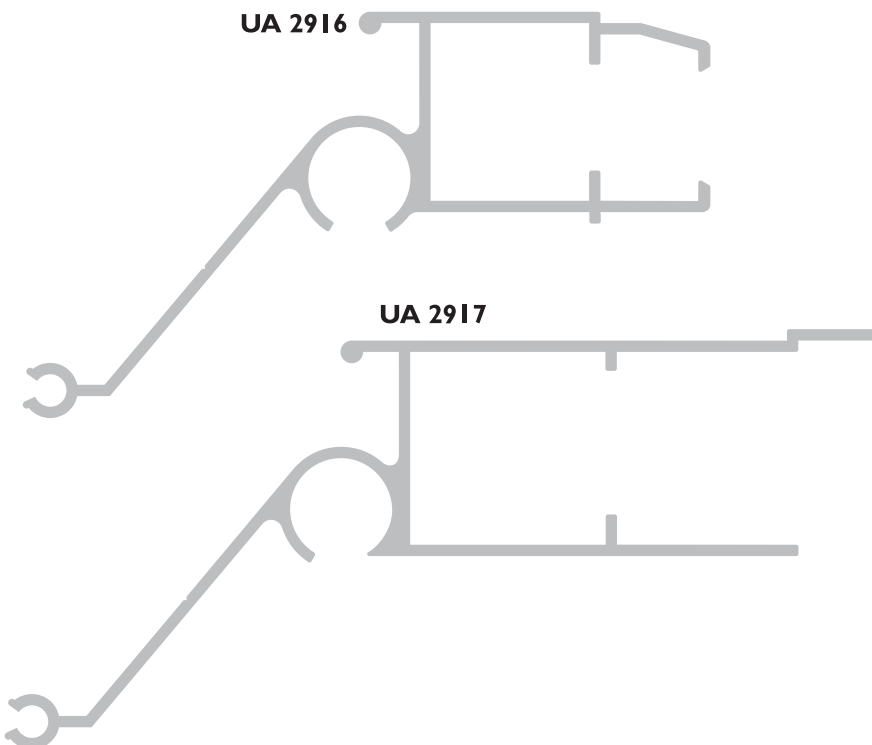


**UA 2922**  
SHUTTER END  
kg/m 0.441 P 214  
OAD 69.29 x 29.49

UA 2917

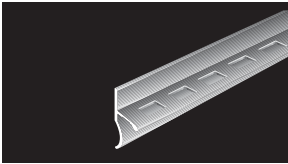


**ASSEMBLY DETAILS**  
Refer: 26-3



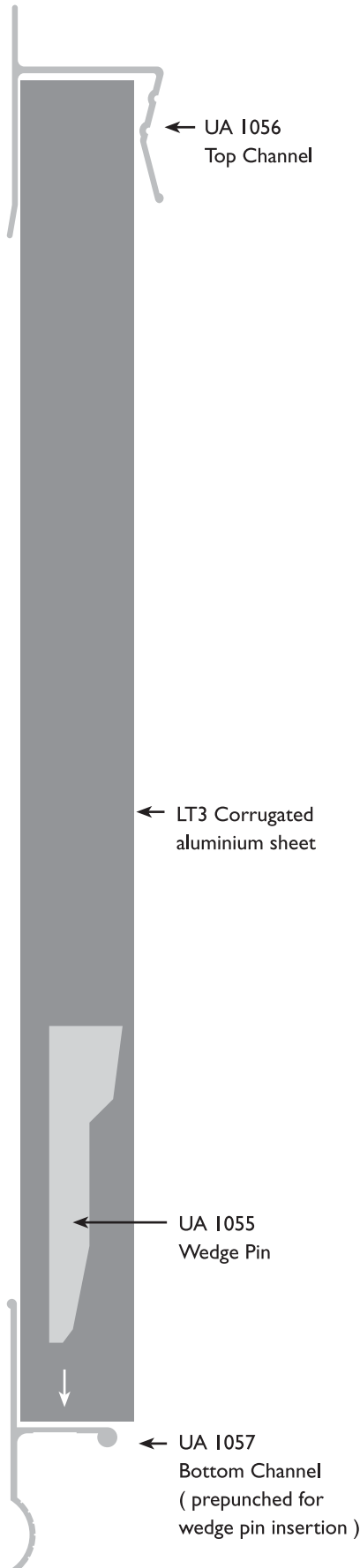
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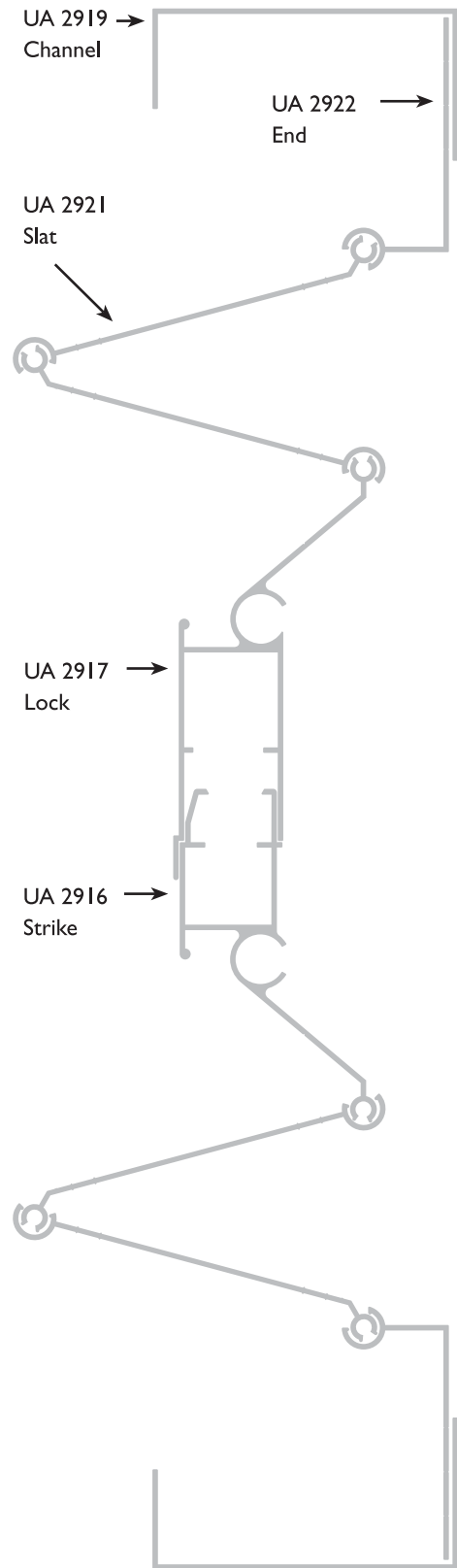


**Above from top**  
 Storm Shutter  
 UA 1057 prepunching detail  
 Accordion Storm Shutter

**STORM SHUTTER ASSEMBLY:** side view, scale 1:2



**ACCORDION STORM SHUTTER ASSEMBLY:** plan view, scale 1:2



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<b>DIE No</b>	<b>DESCRIPTION</b>
<b>UA 2247</b>	<b>PALLET DECK</b>
<b>UA 2435</b>	<b>PALLET BEARER</b>
<b>UA 2436</b>	<b>PALLET DECK</b>

---

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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

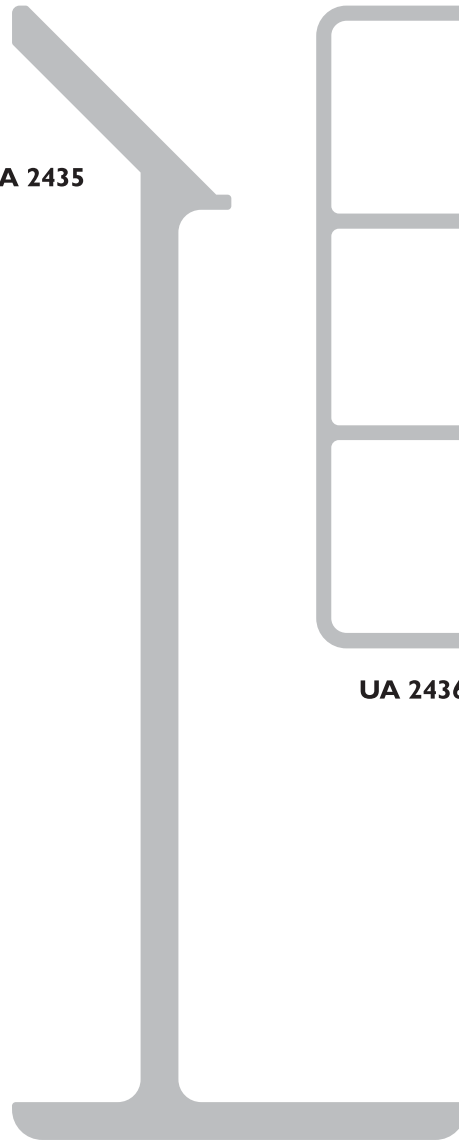
**UA 2435**

PALLET BEARER  
 kg/m 2,918 P 435  
 OAD 150 x 60

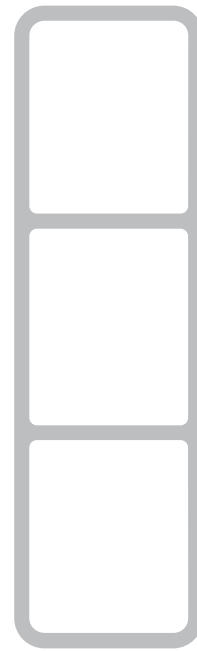
**UA 2436**

PALLET DECK  
 kg/m 1,348 P 214  
 OAD 85 x 25

UA 2435



UA 2436



UA 2247



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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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<b>Standard shape</b>	Extrusions that are available to all customers.
<b>Exclusive shape</b>	Extrusions manufactured to client design and produced for their exclusive use. These are not published in this catalogue.
<b>Standard</b>	Alloys, tempers, dimensions and services always available and acceptable for production without further reference.
<b>Non-standard</b>	Alloys, tempers, dimensions and services which are outside normal availability and always the subject of special inquiry.
<b>Section drawings</b>	Profile outline drawings prepared for every extruded shape. Each one is identified by a die number ( eg: UA 1234 ).
<b>Visible face</b>	In a finished construction, the visible surface of any extrusion.
<b>External periphery</b>	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.
<b>Total periphery</b>	The total distance around the extruded shape, including internal void surfaces.
<b>Factor</b>	Result of dividing total perimeter ( internal and external for hollow shapes ) of the section in mm by weight in kg/m.
<b>Circumscribing circle</b>	Minimum circle inside which extruded shapes fit precisely.
<b>Thickness ratio</b>	Optimum desirable ratio of variation of metal thickness in any extruded shape.
<b>Rod</b>	Solid round section 10 mm or greater in diameter whose length is greater in relation to its diameter.
<b>Bar</b>	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.
<b>Solid shape</b>	Extruded shape whose geometry does not form a void and which is long in relation to its cross-sectional dimensions.
<b>Hollow shape</b>	Single enclosed void with width-to-depth ratio not less than 5:1. Wall thickness uniform except for radiused corners.
<b>Semi-hollow shape</b>	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/mm<sup>2</sup> 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 0.00023mm 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
<b>1350</b>	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
<b>6060</b>	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
<b>6106</b>	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
<b>6005A</b>	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
<b>6261</b>	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
<b>6082</b>	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
<b>2011</b>	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

<b>F</b>	Extrusions as fabricated
<b>O</b>	Extrusions annealed
<b>T1</b>	Cooled from elevated temperature then naturally aged
<b>T4</b>	Solution heat treated then naturally aged
<b>T5</b>	Cooled from elevated temperature then artificially aged
<b>T6</b>	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 down<sup>1</sup>)

Cross-sectional Metal dimension <sup>2</sup> 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 calipers 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 <sup>1</sup> ( mm )		Tensile Strength ( MPa )		
	Over	Up to	Ultimate minimum	Yield minimum	Elongation <sup>2,3</sup> % min in 50mm or 5.65√-A
<b>1350 – H112</b>		All	60		23
<b>6060 – T5</b>		12.0	150	110	8
	12.0	25.0	145	105	6
<b>6106 – T6</b>		10.0	235	210	8
	10.0	25.0	205	170	8
	25.0	150.0	185	160	10
<b>6005A – T5</b>		All	260	240	8
<b>6261 – T6</b>		All	295	255	7
<b>6082 – T6</b>		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/m<sup>2</sup> ) of Extruded Aluminium:**

Calculate cross-section area ( mm<sup>2</sup> ) 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** (pronounced *aluminium*). His spelling is still used in North America but elsewhere in the world the spelling **aluminium**, 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 L T 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 areas 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.

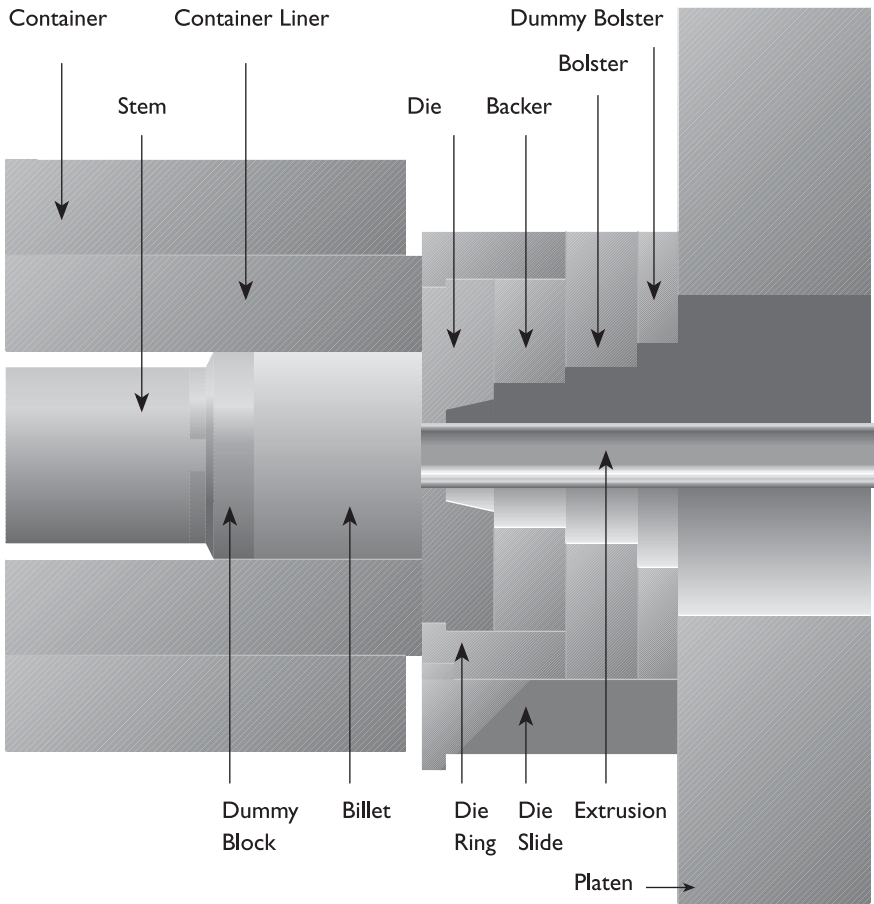


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Profiles in one process



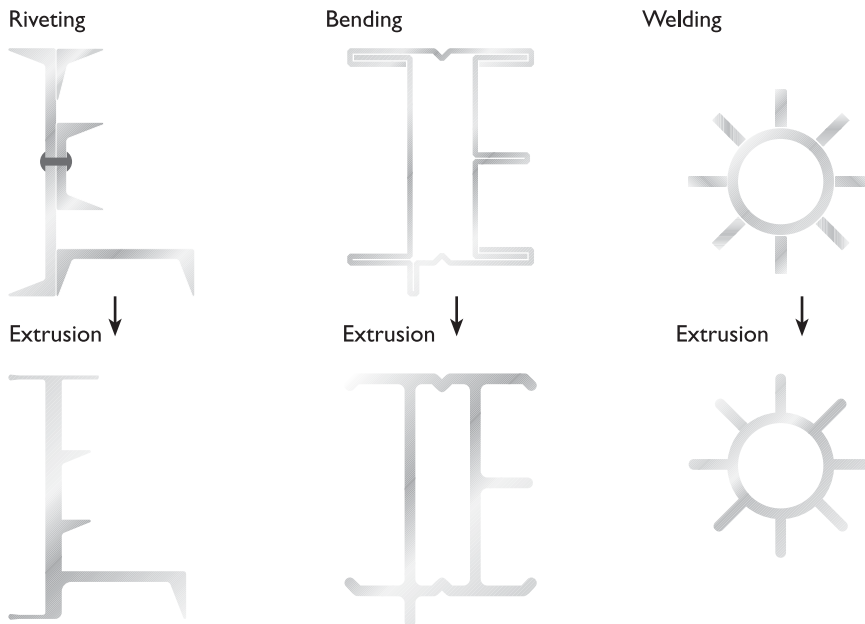
In the extrusion of aluminium, long billets are cut to manageable lengths, heated to 400° to 500°C then fed into a container heater of the extruder. The billet is then pushed through the die by hydraulic force to form the extruded shape.

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.  
**OAD** = 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/m<sup>2</sup> ) of Aluminium Sheet and Plate:**

Thickness mm	Nominal mass kg/m <sup>2</sup>
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/m<sup>2</sup> ) of extruded aluminium:**

Calculate cross-section area ( mm<sup>2</sup> ) and multiply by 0.00271

**Factor**

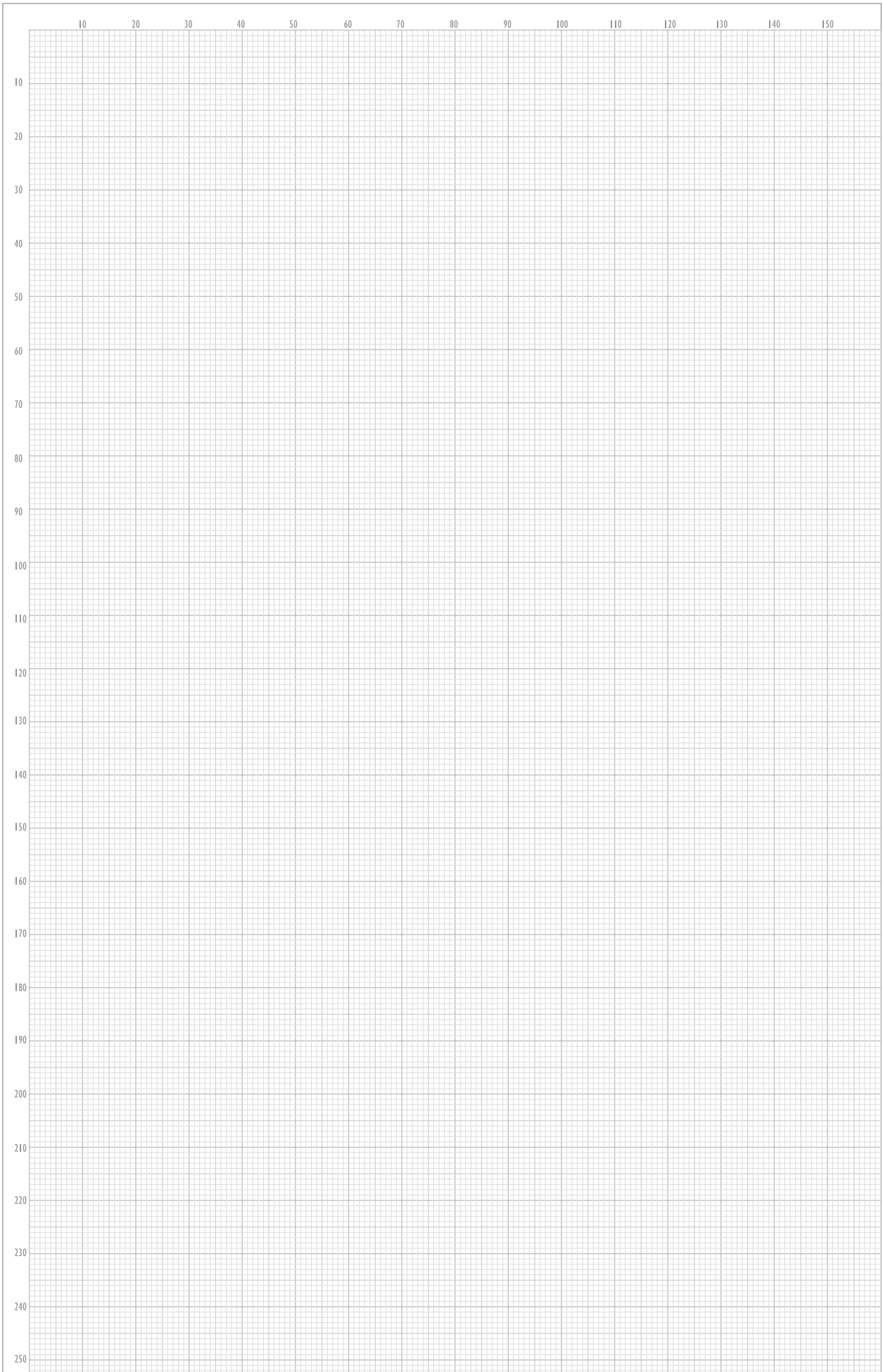
( Difficulty of Extrusion Factor )

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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