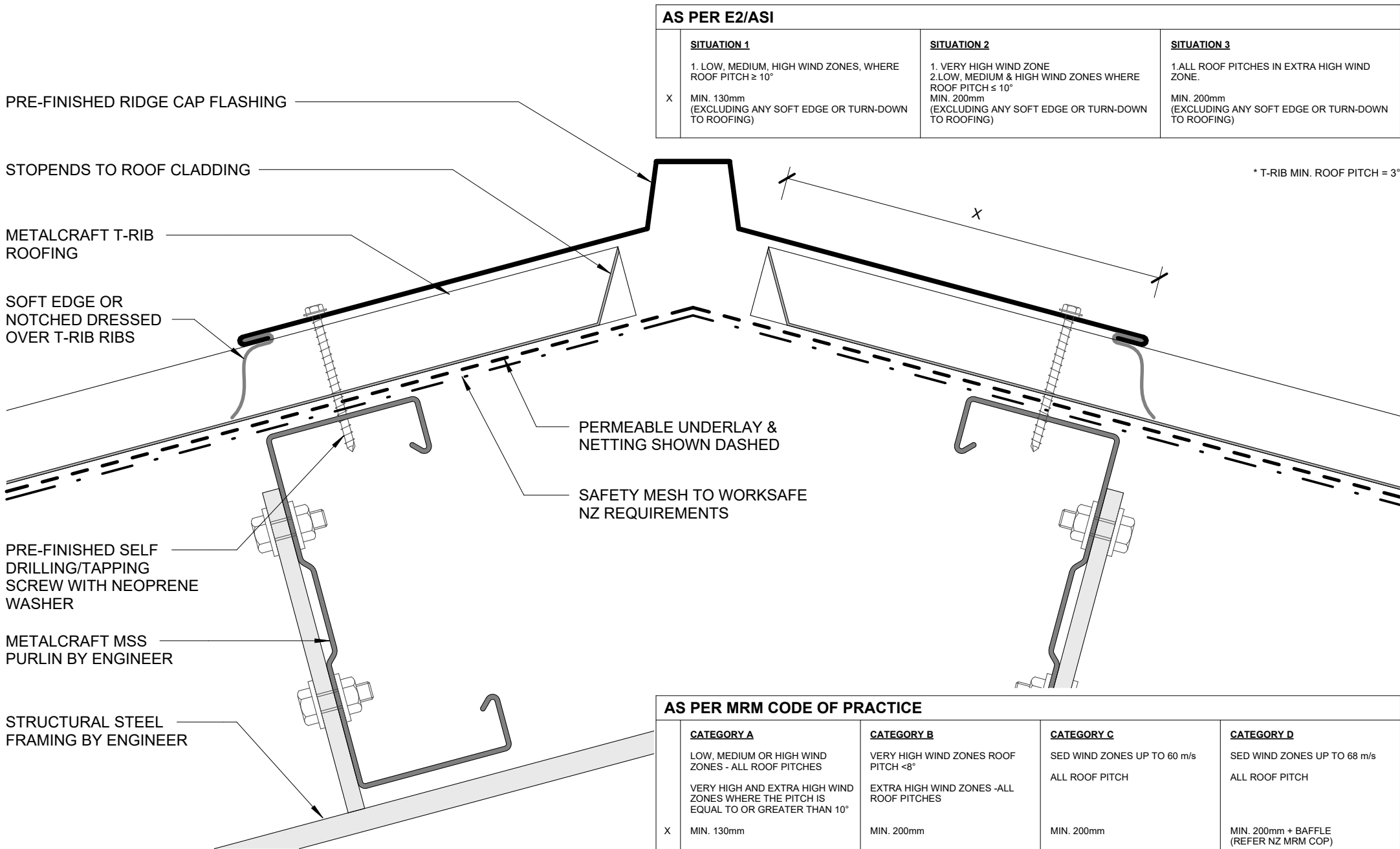


T - Rib

COMMERCIAL ROOFING

DETAIL LIST

| | | <u>Revision</u> | <u>Date</u> |
|-----------|--|-----------------|-------------|
| D 00 / 16 | COVER SHEET | | |
| D 01 / 16 | RIDGE WITH PROFILED APEX | 3.0 | SEP 2024 |
| D 02 / 16 | RIDGE WITH ROUND TOP APEX | 3.0 | SEP 2024 |
| D 03 / 16 | SAWTOOTH RIDGE | 3.0 | SEP 2024 |
| D 04 / 16 | INTERNAL GUTTER | 3.0 | SEP 2024 |
| D 05 / 16 | FLUSH EAVE WITH PAN FIXED GUTTER | 3.0 | SEP 2024 |
| D 06 / 16 | BARGE WITH PROFILED CLADDING | 3.0 | SEP 2024 |
| D 07 / 16 | BARGE WITH SOFFIT | 3.0 | SEP 2024 |
| D 08 / 16 | PARAPET WITH TRANSVERSE APRON | 3.0 | SEP 2024 |
| D 09 / 16 | TRANSVERSE APRON | 3.0 | SEP 2024 |
| D 10 / 16 | PARALLEL APRON | 3.0 | SEP 2024 |
| D 11 / 16 | PARALLEL HIDDEN GUTTER | 3.0 | SEP 2024 |
| D 12 / 16 | PARALLEL HIDDEN GUTTER (2 PART FLASHING) | 3.0 | SEP 2024 |
| D 13 / 16 | ROOF STEP | 3.0 | SEP 2024 |
| D 14 / 16 | TRANSLUCENT SHEETS - LONG SECTION | 3.0 | SEP 2024 |
| D 15 / 16 | TRANSLUCENT SHEETS - CROSS | 3.0 | SEP 2024 |
| D 16 / 16 | 3D TRANSLUCENT SHEETS | 3.0 | SEP 2024 |



PRE-FINISHED ROUND RIDGE CAP
FLASHING

STOPENDS TO ROOF CLADDING

METALCRAFT T-RIB
ROOFING

SOFT EDGE OR
NOTCHED
DRESSED OVER
T-RIB RIBS

PRE-FINISHED SELF
DRILLING/TAPPING
SCREW WITH NEOPRENE
WASHER

METALCRAFT MSS
PURLIN BY ENGINEER

STRUCTURAL STEEL
FRAMING BY ENGINEER

AS PER E2/ASI

| | SITUATION 1 | SITUATION 2 | SITUATION 3 |
|---|--|--|---|
| X | 1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH $\geq 10^\circ$ MIN. 130mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING) | 1. VERY HIGH WIND ZONE 2. LOW, MEDIUM & HIGH WIND ZONES WHERE ROOF PITCH $\leq 10^\circ$ MIN. 200mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING) | 1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE. MIN. 200mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING) |

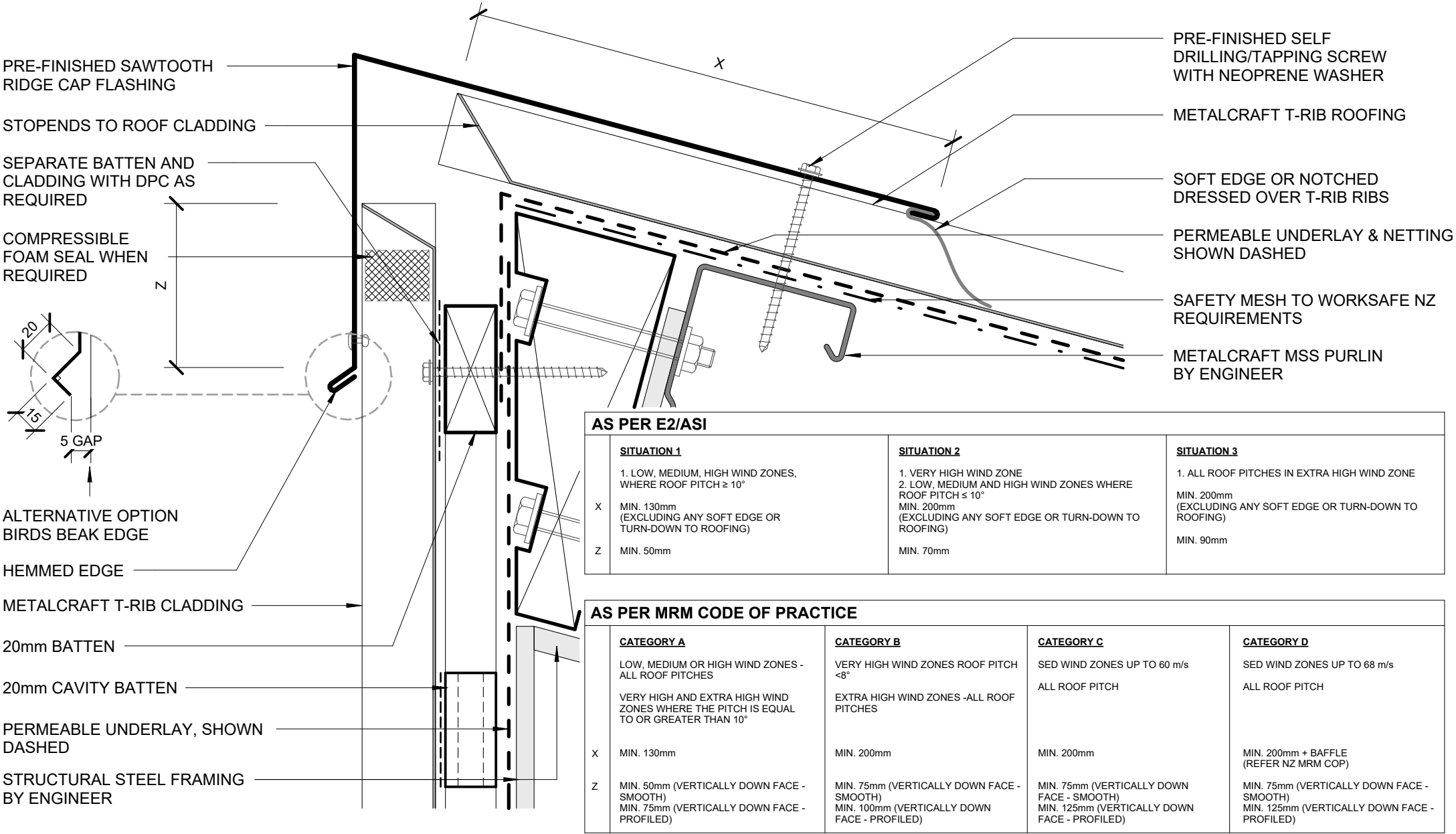
* T-RIB MIN. ROOF PITCH = 3°

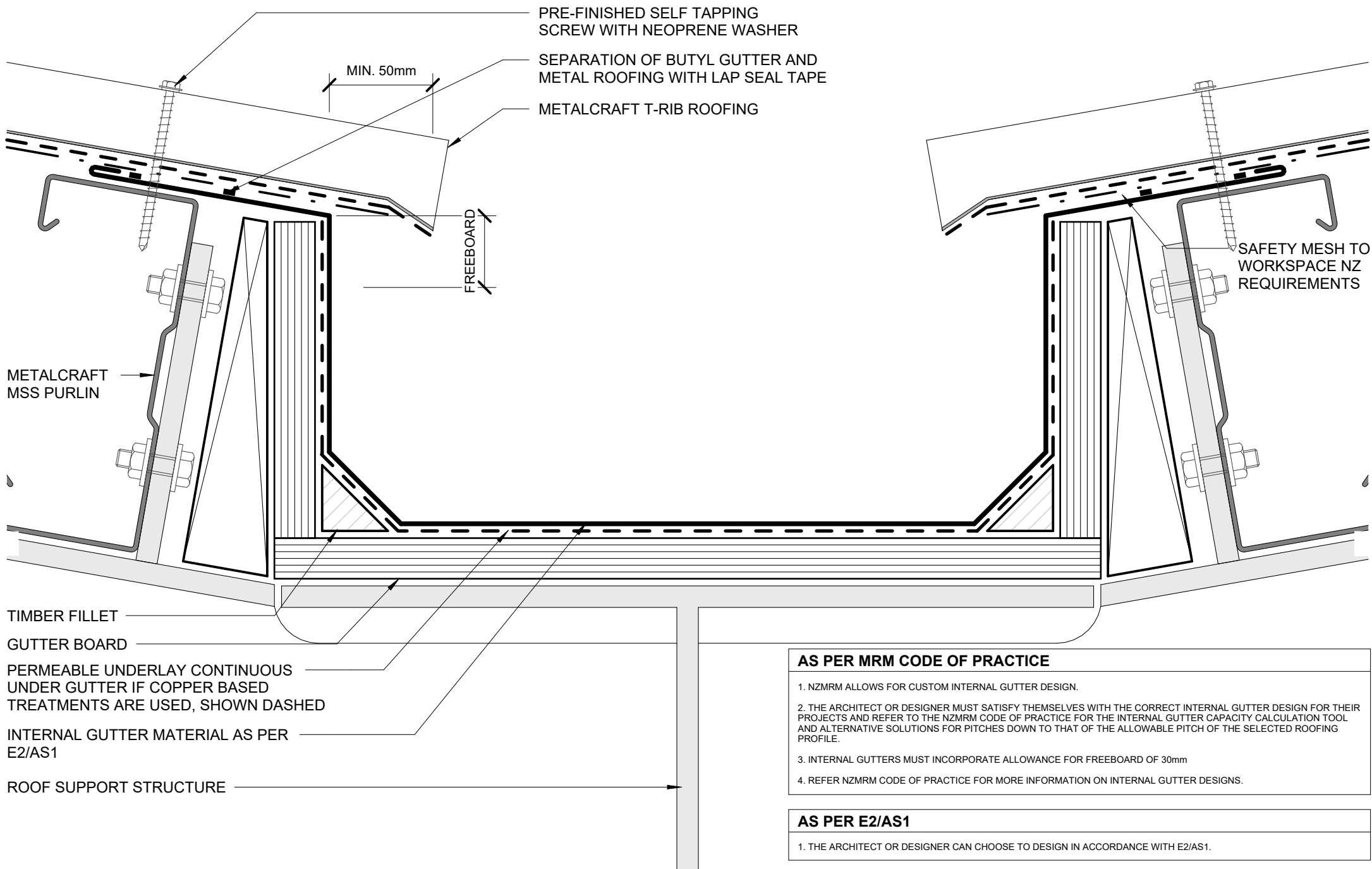
PERMEABLE UNDERLAY &
NETTING SHOWN DASHED

SAFETY MESH TO WORKSAFE
NZ REQUIREMENTS

AS PER MRM CODE OF PRACTICE

| | CATEGORY A | CATEGORY B | CATEGORY C | CATEGORY D |
|---|--|---|---|---|
| | LOW, MEDIUM OR HIGH WIND ZONES - ALL ROOF PITCHES VERY HIGH AND EXTRA HIGH WIND ZONES WHERE THE PITCH IS EQUAL TO OR GREATER THAN 10° | VERY HIGH WIND ZONES ROOF PITCH $\leq 8^\circ$ EXTRA HIGH WIND ZONES -ALL ROOF PITCHES | SED WIND ZONES UP TO 60 m/s ALL ROOF PITCH | SED WIND ZONES UP TO 68 m/s ALL ROOF PITCH |
| X | MIN. 130mm | MIN. 200mm | MIN. 200mm | MIN. 200mm + BAFFLE (REFER NZ MRM COP) |





AS PER MRM CODE OF PRACTICE

1. NZMRM ALLOWS FOR CUSTOM INTERNAL GUTTER DESIGN.
2. THE ARCHITECT OR DESIGNER MUST SATISFY THEMSELVES WITH THE CORRECT INTERNAL GUTTER DESIGN FOR THEIR PROJECTS AND REFER TO THE NZMRM CODE OF PRACTICE FOR THE INTERNAL GUTTER CAPACITY CALCULATION TOOL AND ALTERNATIVE SOLUTIONS FOR PITCHES DOWN TO THAT OF THE ALLOWABLE PITCH OF THE SELECTED ROOFING PROFILE.
3. INTERNAL GUTTERS MUST INCORPORATE ALLOWANCE FOR FREEBOARD OF 30mm
4. REFER NZMRM CODE OF PRACTICE FOR MORE INFORMATION ON INTERNAL GUTTER DESIGNS.

AS PER E2/AS1

1. THE ARCHITECT OR DESIGNER CAN CHOOSE TO DESIGN IN ACCORDANCE WITH E2/AS1.

EAVE FLASHING REQUIRED WHEN ALL OF THE FOLLOWING CONDITIONS ARE MET:
 ROOF PITCH $\leq 10^\circ$
 SOFFIT WIDTH $\leq 100\text{mm}$
 WIND ZONES = VERY HIGH OR EXTRA HIGH

OTHER SITUATION - ENGINEER SPECIFIC DESIGN
 MRM RECOMMENDS TO USE IN AREAS EXPOSED TO CONTAMINATORS SUCH AS SEA SALT OR INDUSTRIAL POLLUTANTS

$<10^\circ$ OR UN-BAFFLED BY SPOUTING = 70mm
 $10-35^\circ = 50\text{mm}$
 $>35^\circ = 40\text{mm}$

* T-RIB
 MIN. ROOF PITCH = 3°
 15.00°

DIMENSION TO SUIT
 SUGGEST MIN. 125mm

METALCRAFT T-RIB ROOFING

UNDERLAY TERMINATES AT TOP OF GUTTER EAVES FLASHING AND WHEN NO GUTTER EAVES IS REQUIRED UNDERLAY MUST NOT OVERHANG THE GUTTER BY MORE THAN 20mm

PRE-FINISHED EAVE FLASHING CUT BACK AROUND INTERNAL GUTTER BRACKETS IF REQUIRED

METALCRAFT BOX GUTTER 125 WITH EXTERNAL BRACKET

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH NEOPRENE WASHER

DPC SEPERATION AS REQUIRED

SEPARATE BATTEN AND CLADDING WITH DPC AS REQUIRED

COMPRESSIBLE FOAM SEAL WHEN REQUIRED.

METALCRAFT MSS PURLIN BY ENGINEER

METALCRAFT T-RIB CLADDING ON CAVITY

MIN. 35mm OVERLAP
 MIN. 10mm
 *OVERFLOW

PACKER

SAFETY MESH TO WORKSAFE NZ REQUIREMENTS

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH NEOPRENE WASHER

AS PER NZ MRM CODE OF PRACTICE

Z CATEGORY A- 75mm
 CATEGORY B- 100mm
 CATEGORY C&D- 125mm

5mm GAP

STRUCTURAL STEEL FRAMING BY ENGINEER

Metalcraft
 Roofing
 www.metalcraftgroup.co.nz

DISCLAIMER:
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 Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturers recommendations and NZBC regulations.

FLUSH EAVE WITH PAN FIXED GUTTER

T - Rib

Rev. 3.0

COMMERCIAL ROOFING

Reference CRTRI

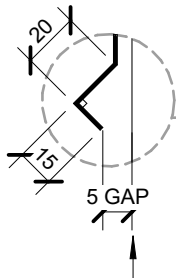
Date SEP 2024

Scale 1 : 2

Sheet **D 05 / 16**

UNDERSOAKER
FLASHING REQUIRED
FOR NZ MRM COP
CATEGORY D ONLY

PRE-FINISHED SEALED POP
RIVET OR PRE-FINISHED 8g
WAFFER-TEK SCREW



ALTERNATIVE OPTION
BIRDS BEAK EDGE

COMPRESSIBLE FOAM SEAL
WHEN REQUIRED

20mm BATTEN

METALCRAFT MSS PURLIN
BY ENGINEER

METALCRAFT T-RIB
CLADDING

20mm CAVITY BATTEN

PERMEABLE UNDERLAY,
SHOWN DASHED

X

5-10mm

FLASHING SHOULD NOT EXCEED 300mm.
A TURNED UP PAN EDGE TO FULL CREST
HEIGHT (RIB) CONSTITUTES A CREST.

PRE-FINISHED
BARGE FLASHING

5mm GAP

METALCRAFT T-RIB
ROOFING

PERMEABLE UNDERLAY
& NETTING SHOWN
DASHED

SAFETY MESH TO WORKSAFE
NZ REQUIREMENTS

PRE-FINISHED SELF
DRILLING/TAPPING SCREW
WITH NEOPRENE WASHER

AS PER E2/ASI

| | SITUATION 1 | SITUATION 2 | SITUATION 3 |
|---|---|---|---|
| | 1. LOW, MEDIUM, HIGH WIND ZONES WHERE ROOF PITCH $\geq 10^\circ$ | 1. ALL ROOF PITCHES IN VERY HIGH WIND ZONE 2. LOW, MEDIUM AND HIGH WND ZONES WHERE ROOF PITCH $\leq 10^\circ$ | 1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE. |
| X | AT LEAST TWO CRESTS | AT LEAST TWO CRESTS | AT LEAST TWO CRESTS |
| Z | MIN. 50mm | MIN. 70mm | MIN. 90mm |

AS PER MRM CODE OF PRACTICE

| | CATEGORY A | CATEGORY B | CATEGORY C | CATEGORY D |
|---|---|---|---|---|
| | LOW, MEDIUM OR HIGH WIND ZONES - ALL ROOF PITCHES VERY HIGH AND EXTRA HIGH WIND ZONES WHERE THE PITCH IS EQUAL TO OR GREATER THAN 10° | VERY HIGH WIND ZONES ROOF PITCH $< 8^\circ$ EXTRA HIGH WIND ZONES - ALL ROOF PITCHES | SED WIND ZONES UP TO 60 m/s ALL ROOF PITCH | SED WIND ZONES UP TO 68 m/s ALL ROOF PITCH |
| X | TRAPEZOIDAL & TRAY: ONE RIB CORRUGATE: 2 CORRUGATIONS | TRAPEZOIDAL & TRAY: TWO RIBS (20mm - 34mm)* ONE RIB (> 34 mm)* CORRUGATE: 2 CORRUGATIONS | TRAPEZOIDAL & TRAY: TWO RIBS (20mm - 34mm)* ONE RIB (> 34 mm)* CORRUGATE: 3 CORRUGATIONS | TRAPEZOIDAL & TRAY: TWO RIBS (20mm - 34mm)* + UNDERSOAKER ONE RIB (> 34 mm)* + UNDERSOAKER CORRUGATE: 2 CORRUGATIONS + UNDERSOAKER |
| Z | MIN. 50mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 75mm (VERTICALLY DOWN FACE - PROFILED) | MIN. 75mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 100mm (VERTICALLY DOWN FACE - PROFILED) | MIN. 75mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 125mm (VERTICALLY DOWN FACE - PROFILED) | MIN. 75mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 125mm (VERTICALLY DOWN FACE - PROFILED) |

* RIB HEIGHT OF PROFILE OR TURNUP

BARGE WITH PROFILED CLADDING

T - Rib

Rev. 3.0

COMMERCIAL ROOFING

Reference CRTRI

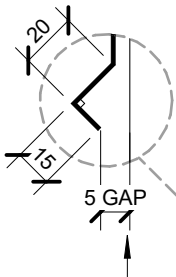
Date SEP 2024

Scale 1 : 2

Sheet **D 06 / 16**

UNDERSOAKER
FLASHING REQUIRED
FOR NZ MRM COP
CATEGORY D ONLY

PRE-FINISHED
BARGE FLASHING



ALTERNATIVE
OPTION
BIRDS BEAK EDGE
HEMMED EDGE

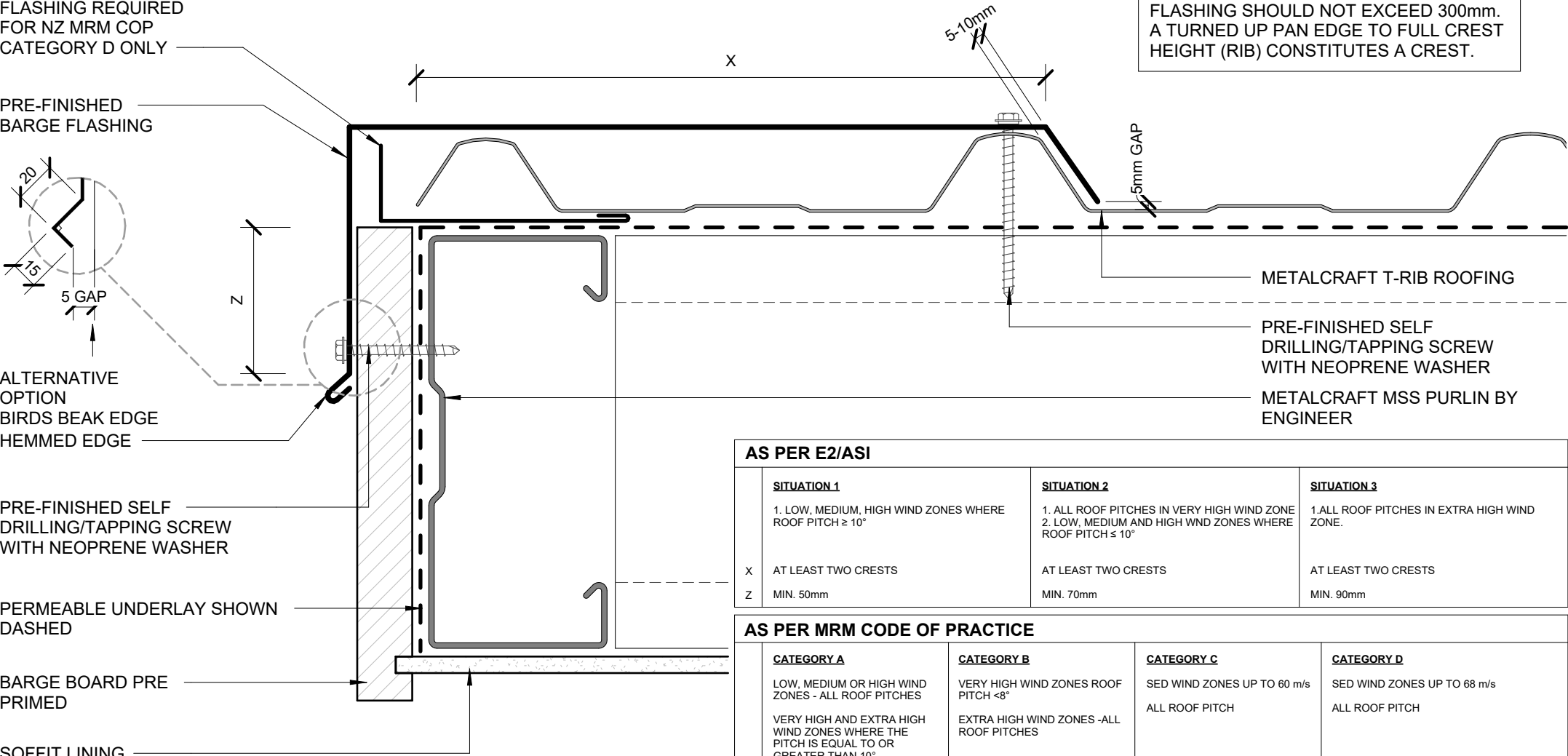
PRE-FINISHED SELF
DRILLING/TAPPING SCREW
WITH NEOPRENE WASHER

PERMEABLE UNDERLAY SHOWN
DASHED

BARGE BOARD PRE
PRIMED

SOFFIT LINING

FLASHING SHOULD NOT EXCEED 300mm.
A TURNED UP PAN EDGE TO FULL CREST
HEIGHT (RIB) CONSTITUTES A CREST.



| AS PER E2/ASI | | | |
|---------------|--|--|--|
| | SITUATION 1 | SITUATION 2 | SITUATION 3 |
| | 1. LOW, MEDIUM, HIGH WIND ZONES WHERE ROOF PITCH ≥ 10° | 1. ALL ROOF PITCHES IN VERY HIGH WIND ZONE 2. LOW, MEDIUM AND HIGH WND ZONES WHERE ROOF PITCH ≤ 10° | 1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE. |
| X | AT LEAST TWO CRESTS | AT LEAST TWO CRESTS | AT LEAST TWO CRESTS |
| Z | MIN. 50mm | MIN. 70mm | MIN. 90mm |

| AS PER MRM CODE OF PRACTICE | | | |
|-----------------------------------|--|--|--|
| | CATEGORY A | CATEGORY B | CATEGORY C |
| | LOW, MEDIUM OR HIGH WIND ZONES - ALL ROOF PITCHES VERY HIGH AND EXTRA HIGH WIND ZONES WHERE THE PITCH IS EQUAL TO OR GREATER THAN 10° | VERY HIGH WIND ZONES ROOF PITCH <8° EXTRA HIGH WIND ZONES -ALL ROOF PITCHES | SED WIND ZONES UP TO 60 m/s ALL ROOF PITCH |
| X | TRAPEZOIDAL & TRAY: ONE RIB CORRUGATE: 2 CORRUGATIONS | TRAPEZOIDAL & TRAY: TWO RIBS (20mm - 34mm)* ONE RIB (>34mm)* CORRUGATE: 2 CORRUGATIONS | TRAPEZOIDAL & TRAY: TWO RIBS (20mm - 34mm)* ONE RIB (>34mm)* CORRUGATE: 3 CORRUGATIONS |
| Z | MIN. 50mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 75mm (VERTICALLY DOWN FACE - PROFILED) | MIN. 75mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 100mm (VERTICALLY DOWN FACE - PROFILED) | MIN. 75mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 125mm (VERTICALLY DOWN FACE - PROFILED) |
| * RIB HEIGHT OF PROFILE OR TURNUP | | | |

| | CATEGORY D |
|---|--|
| | SED WIND ZONES UP TO 68 m/s ALL ROOF PITCH |
| X | TRAPEZOIDAL & TRAY: TWO RIBS (20mm - 34mm)* + UNDERSOAKER ONE RIB (>34mm)* + UNDERSOAKER CORRUGATE: 2 CORRUGATIONS + UNDERSOAKER |
| Z | MIN. 75mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 125mm (VERTICALLY DOWN FACE - PROFILED) |

COMPRESSIBLE FOAM SEAL WHEN REQUIRED

CONTINUOUS
TIMBER PACKING

PRE-FINISHED
PARAPET CAP
FLASHING

SEPARATE BATTEN
AND CLADDING
WITH DPC AS
REQUIRED

PRE-FINISHED FLAT
HEAD EXPANDING
MASONRY ANCHOR
SCREW WITH
NEOPRENE WASHER
FOR FLASHING

PVC CAVITY CLOSER

METALCRAFT T-RIB
CLADDING ON CAVITY

PERMEABLE
UNDERLAY &
NETTING SHOWN
DASHED

STOPENDS ROOF
CLADDING

METALCRAFT MSS
PURLIN BY ENGINEER

CONCRETE WALL
BY ENGINEER

MIN. 5.00°

AS PER E2/ASI

SITUATION 1

1. LOW, MEDIUM, HIGH WIND ZONES,
WHERE ROOF PITCH $\geq 10^\circ$

G MIN. 35mm

N MIN. 75mm

L MIN. 130mm
(EXCLUDING ANY SOFT EDGE OR
TURN-DOWN TO ROOFING)

Z MIN. 50mm

SITUATION 2

1. VERY HIGH WIND ZONE
2. LOW, MEDIUM AND HIGH WIND
ZONES WHERE ROOF PITCHES $\leq 10^\circ$
MIN. 35mm

MIN. 75mm

MIN. 200mm
(EXCLUDING ANY SOFT EDGE OR
TURN-DOWN TO ROOFING)

MIN. 70mm

SITUATION 3

1. ALL ROOF PITCHES IN EXTRA HIGH
WIND ZONE

MIN. 35mm

MIN. 75mm

MIN. 200mm
(EXCLUDING ANY SOFT EDGE OR
TURN-DOWN TO ROOFING)

MIN. 90mm

AS PER MRM CODE OF PRACTICE

CATEGORY A

LOW, MEDIUM OR HIGH WIND ZONES -
ALL ROOF PITCHES

VERY HIGH AND EXTRA HIGH WIND
ZONES WHERE THE PITCH IS EQUAL
TO OR GREATER THAN 10°

G 25mm

N MIN. 50mm + HEM OR 75mm
(VERTICALLY UP FACE - SMOOTH)
MIN. 75mm + HEM OR 100mm
(VERTICALLY UP FACE - PROFILED)

L MIN. 130mm

Z MIN. 50mm
(VERTICALLY DOWN FACE - SMOOTH)
MIN. 75mm
(VERTICALLY DOWN FACE - PROFILED)

CATEGORY B

VERY HIGH WIND ZONES ROOF PITCH
 $< 8^\circ$

EXTRA HIGH WIND ZONES - ALL ROOF
PITCHES

25mm

MIN. 75mm + HEM OR 100mm
(VERTICALLY UP FACE - SMOOTH)
MIN. 100mm + HEM OR 125mm
(VERTICALLY UP FACE - PROFILED)

MIN. 200mm

MIN. 75mm
(VERTICALLY DOWN FACE - SMOOTH)
MIN. 100mm
(VERTICALLY DOWN FACE - PROFILED)

CATEGORY C

SED WIND ZONES UP TO 60 m/s

ALL ROOF PITCH

25mm

MIN. 100mm + HEM OR 125mm
(VERTICALLY UP FACE - SMOOTH)
MIN. 125mm + HEM
(VERTICALLY UP FACE - PROFILED)

MIN. 200mm + BAFFLE
(REFER NZ MRM COP)

MIN. 100mm
(VERTICALLY DOWN FACE - SMOOTH)
MIN. 125mm
(VERTICALLY DOWN FACE - PROFILED)

CATEGORY D

SED WIND ZONES UP TO 68 m/s

ALL ROOF PITCH

25mm

MIN. 100mm + HEM OR 125mm
(VERTICALLY UP FACE - SMOOTH)
MIN. 125mm + HEM
(VERTICALLY UP FACE - PROFILED)

MIN. 200mm + BAFFLE
(REFER NZ MRM COP)

MIN. 100mm
(VERTICALLY DOWN FACE - SMOOTH)
MIN. 125mm
(VERTICALLY DOWN FACE - PROFILED)

* T-RIB
MIN. ROOF PITCH = 3°

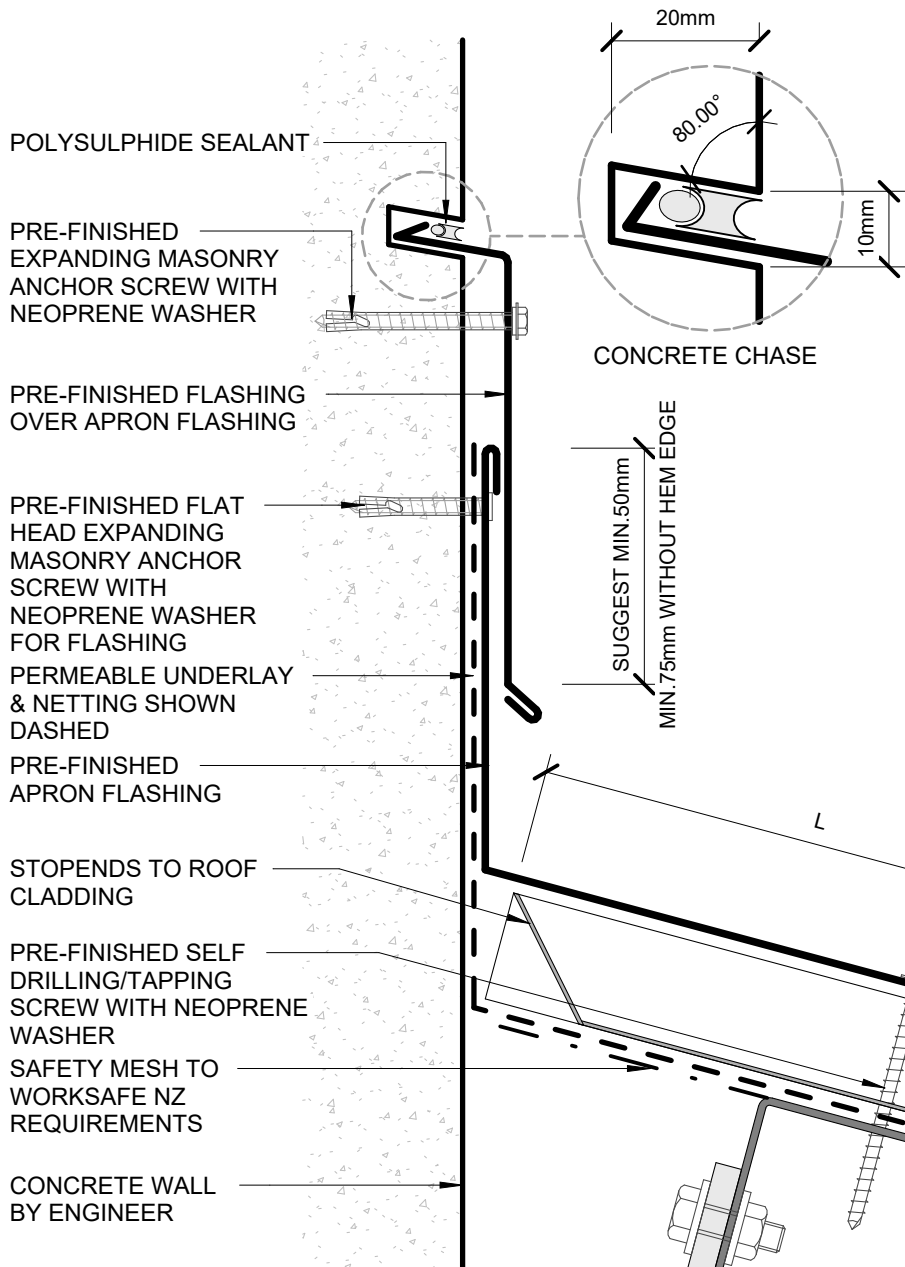
15.00°

PRE-FINISHED APRON FLASHING

PRE-FINISHED SELF
DRILLING/TAPPING SCREW WITH
NEOPRENE WASHER
SOFT EDGE OR NOTCHED DRESSED
OVER T-RIB RIBS

METALCRAFT T-RIB ROOFING

SAFETY MESH TO WORKSAFE NZ
REQUIREMENTS



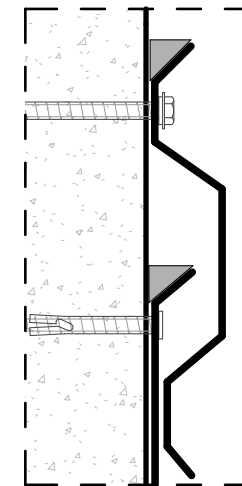
AS PER E2/ASI

| SITUATION 1 | | SITUATION 2 | SITUATION 3 |
|---|--|--|--|
| 1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH $\geq 10^\circ$ | | 1. VERY HIGH WIND ZONE 2. LOW, MEDIUM, AND HIGH WIND ZONES WHERE ROOF PITCH $\leq 10^\circ$ | 1. ALL ROOF PITCHES EXTRA HIGH WIND ZONE |
| L MIN. 130mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING) | | MIN. 200mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING) | MIN. 200mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING) |

AS PER MRM CODE OF PRACTICE

| CATEGORY A | CATEGORY B | CATEGORY C | CATEGORY D |
|--|---|--|--|
| LOW, MEDIUM OR HIGH WIND ZONES - ALL ROOF PITCHES | VERY HIGH WIND ZONES ROOF PITCH $< 8^\circ$ | SED WIND ZONES UP TO 60 m/s | SED WIND ZONES UP TO 68 m/s |
| VERY HIGH AND EXTRA HIGH WIND ZONES WHERE THE PITCH IS EQUAL TO OR GREATER THAN 10° | EXTRA HIGH WIND ZONES - ALL ROOF PITCHES | ALL ROOF PITCH | ALL ROOF PITCH |
| L MIN. 130mm | MIN. 200mm | MIN. 200mm + BAFFLE (REFER NZ MRM COP) | MIN. 200mm + BAFFLE (REFER NZ MRM COP) |

* T-RIB
MIN. ROOF PITCH = 3°
15.00°



FACE FIXED ALTERNATIVE

SOFT EDGE OR NOTCHED DRESSED OVER T-RIB RIBS

METALCRAFT T-RIB ROOFING

METALCRAFT MSS PURLIN BY ENGINEER

TRANSVERSE APRON

COMMERCIAL ROOFING

Metalcraft
Roofing
www.metalcraftgroup.co.nz

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T - Rib

Rev. 3.0

Reference CRTRI

Date SEP 2024

Scale 1 : 2

Sheet **D 09 / 16**

