

Corrugate

COMMERCIAL ROOFING

<u>DETAIL LIST</u>	<u>Revision</u>	<u>Date</u>
E 00 / 16	COVER SHEET	
E 01 / 16	RIDGE WITH PROFILED APEX	2.0 JUNE 2024
E 02 / 16	RIDGE WITH NON PROFILED APEX	2.0 JUNE 2024
E 03 / 16	SAWTOOTH RIDGE	2.0 JUNE 2024
E 04 / 16	INTERNAL GUTTER	2.0 JUNE 2024
E 05 / 16	FLUSH EAVE WITH EXTERNAL GUTTER BRACKET	2.0 JUNE 2024
E 06 / 16	BARGE WITH PROFILED CLADDING	2.0 JUNE 2024
E 07 / 16	BARGE OVERHANG	2.0 JUNE 2024
E 08 / 16	PARAPET WITH TRANSVERSE APRON	2.0 JUNE 2024
E 09 / 16	TRANSVERSE APRON	2.0 JUNE 2024
E 10 / 16	PARALLEL APRON	2.0 JUNE 2024
E 11 / 16	PARALLEL HIDDEN GUTTER	2.0 JUNE 2024
E 12 / 16	PARALLEL HIDDEN GUTTER (2 PART FLASHING)	2.0 JUNE 2024
E 13 / 16	ROOF STEP	2.0 JUNE 2024
E 14 / 16	TRANSLUCENT SHEETS - LONG SECTION	2.0 JUNE 2024
E 15 / 16	TRANSLUCENT SHEETS - CROSS	2.0 JUNE 2024
E 16 / 16	3D TRANSLUCENT SHEETS	2.0 JUNE 2024

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 & HIGH WIND ZONES WHERE ROOF PITCH $\leq 10^\circ$	1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE.
X	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)

PRE-FINISHED RIDGE CAP FLASHING

STOPENDS TO ROOF CLADDING

METALCRAFT CORRUGATE ROOFING

SOFT EDGE DRESSED OVER CORRUGATE RIBS

PERMEABLE UNDERLAY

SAFETY MESH TO WORKSAFE NZ REQUIREMENTS

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH NEOPRENE WASHER

METALCRAFT MSS PURLIN BY ENGINEER

STRUCTURAL STEEL FRAMING BY ENGINEER

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
X	MIN. 130mm	MIN. 200mm	MIN. 200mm	MIN. 200mm + BAFFLE (REFER NZ MRM COP)

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 & HIGH WIND ZONES WHERE ROOF PITCH $\leq 10^\circ$	1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE.
X	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)

PRE-FINISHED RIDGE CAP FLASHING

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X	MIN. 130mm	MIN. 200mm	MIN. 200mm	MIN. 200mm + BAFFLE (REFER NZ MRM COP)

Metalcraft
Roofing

www.metalcraftgroup.co.nz

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Corrugate

Rev. 2.0

Reference CRCG

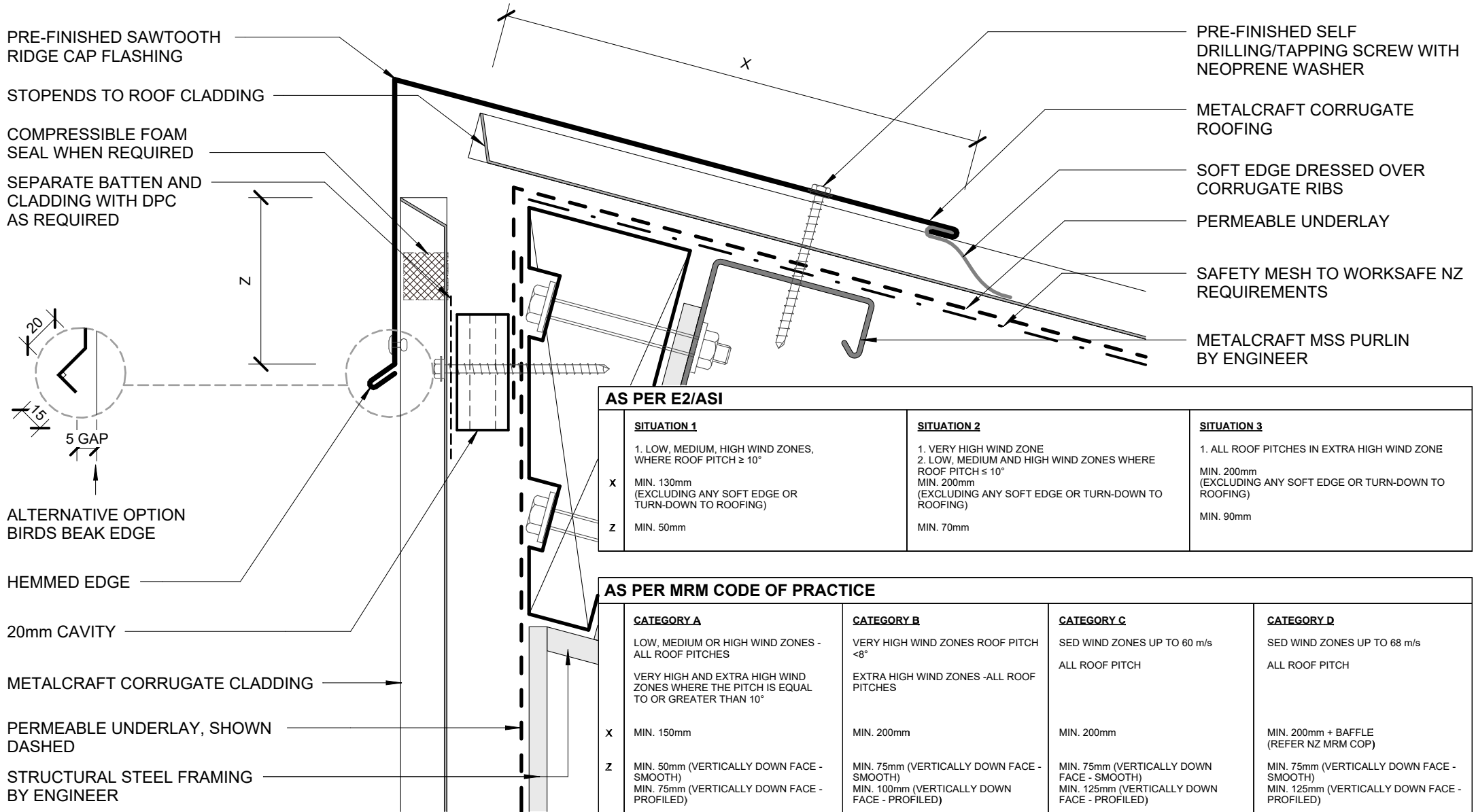
Date JUNE 2024

RIDGE WITH NON PROFILED APEX

COMMERCIAL ROOFING

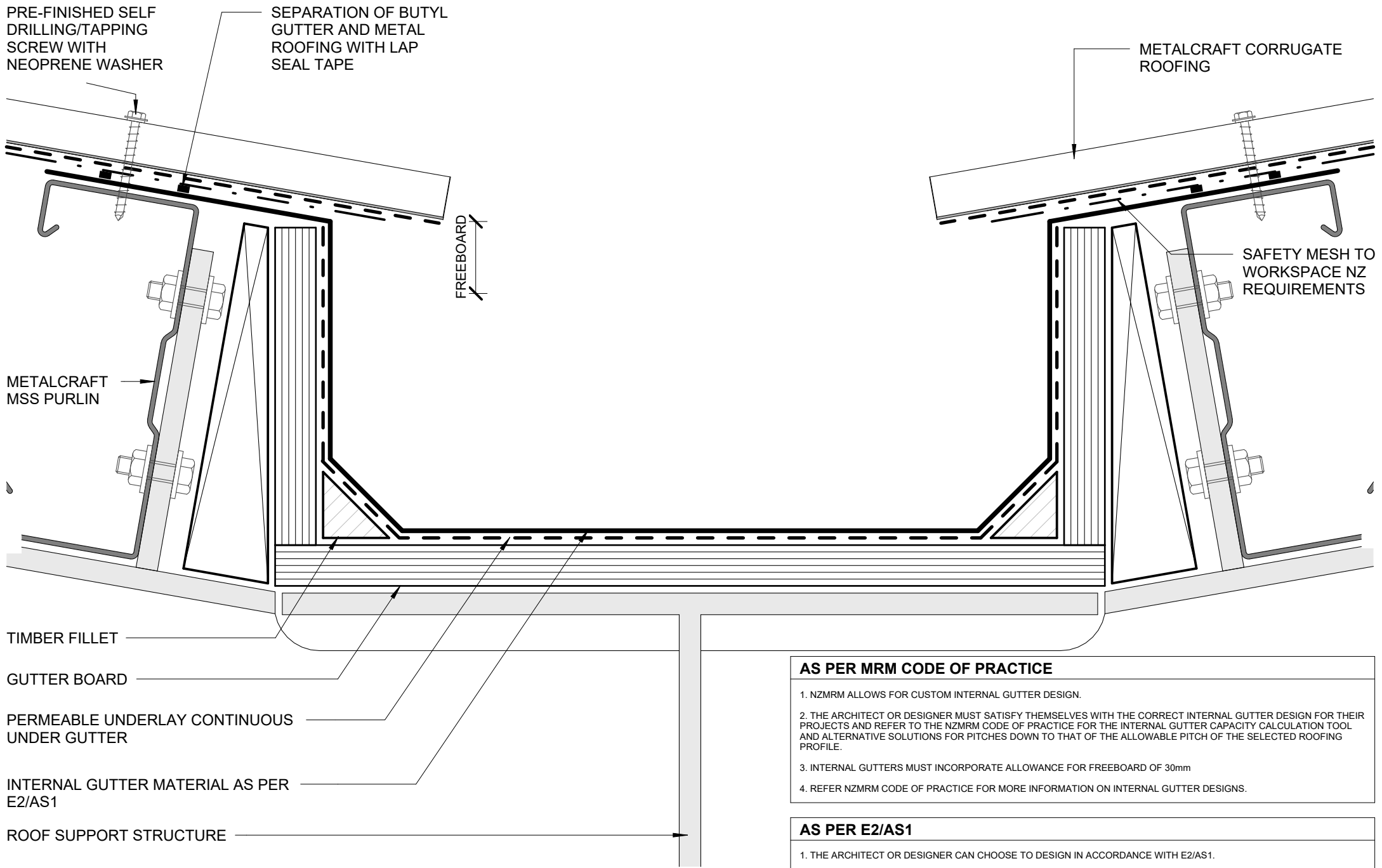
Scale 1 : 2

Sheet **E 02 / 16**



AS PER E2/ASI			
	SITUATION 1	SITUATION 2	SITUATION 3
	1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH ≥ 10°	1. VERY HIGH WIND ZONE 2. LOW, MEDIUM AND HIGH WIND ZONES WHERE ROOF PITCH ≤ 10°	1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE
X	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)
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 WIND ZONES ROOF PITCH <8°	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
X	MIN. 150mm	MIN. 200mm	MIN. 200mm	MIN. 200mm + BAFFLE (REFER NZ MRM COP)
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)



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

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

* CORRUGATE MIN. ROOF PITCH = 8°

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

DIMENSION TO SUIT
 SUGGEST MIN. 125mm

METALCRAFT CORRUGATE 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

METALCRAFT CLADDING ON CAVITY

COMPRESSIBLE FOAM SEAL WHEN REQUIRED

METALCRAFT MSS PURLIN BY ENGINEER

AS PER NZ MRM CODE OF PRACTICE	
Z	CATEGORY A- 75mm
	CATEGORY B- 100mm
	CATEGORY C&D- 125mm

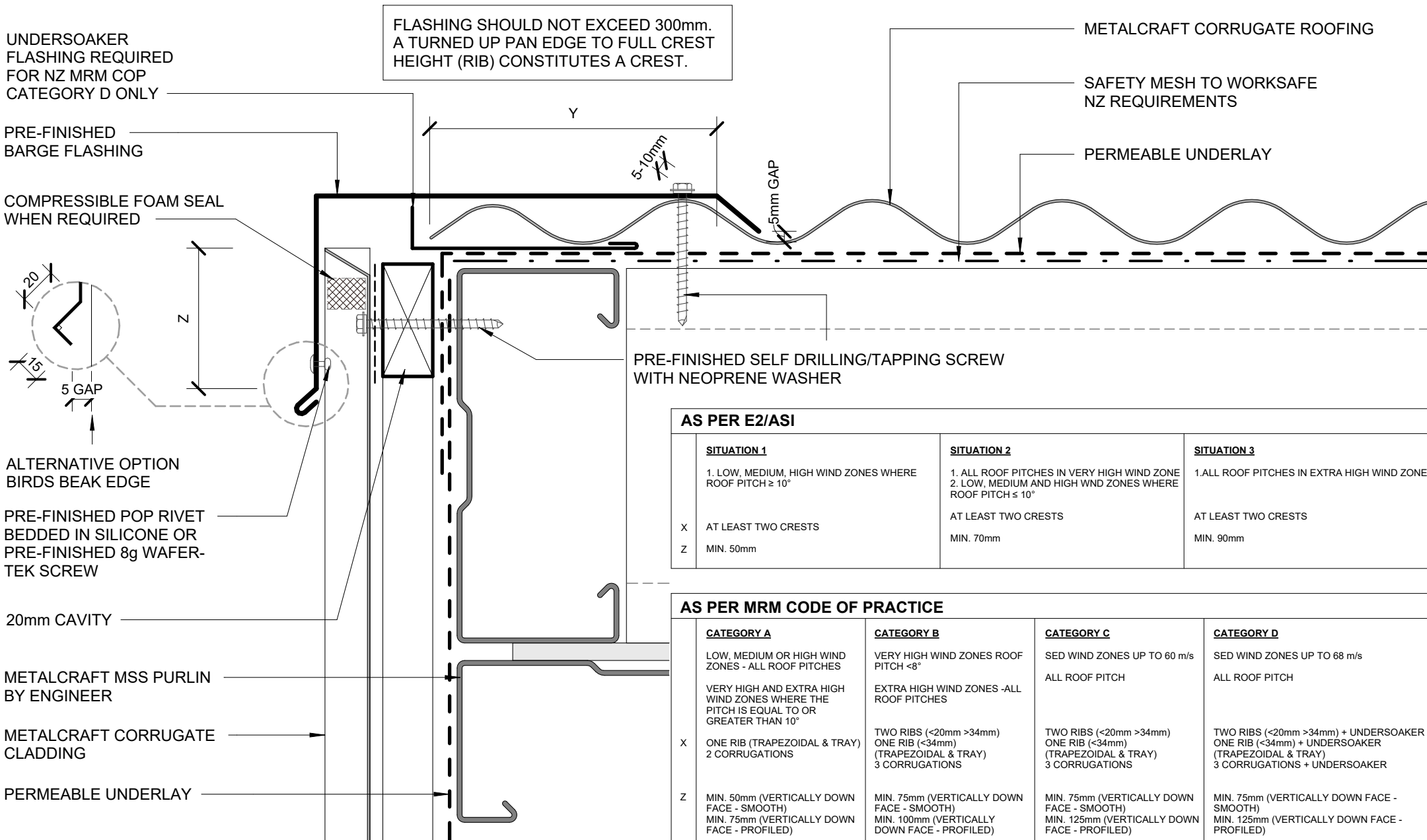
5mm GAP

PACKER

SAFETY MESH TO WORKSAFE NZ REQUIREMENTS

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH NEOPRENE WASHER

STRUCTURAL STEEL FRAMING BY ENGINEER



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

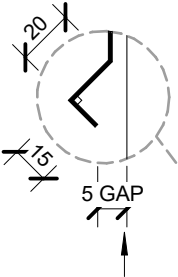
AS PER E2/ASI		
SITUATION 1	SITUATION 2	SITUATION 3
1. LOW, MEDIUM, HIGH WIND ZONES WHERE ROOF PITCH $\geq 10^\circ$	1. ALL ROOF PITCHES IN VERY HIGH WIND ZONE 2. LOW, MEDIUM AND HIGH WIND ZONES WHERE ROOF PITCH $\leq 10^\circ$	1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE
X AT LEAST TWO CRESTS	AT LEAST 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 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
X ONE RIB (TRAPEZOIDAL & TRAY) 2 CORRUGATIONS	TWO RIBS ($< 20\text{mm} > 34\text{mm}$) ONE RIB ($< 34\text{mm}$) (TRAPEZOIDAL & TRAY) 3 CORRUGATIONS	TWO RIBS ($< 20\text{mm} > 34\text{mm}$) ONE RIB ($< 34\text{mm}$) (TRAPEZOIDAL & TRAY) 3 CORRUGATIONS	TWO RIBS ($< 20\text{mm} > 34\text{mm}$) + UNDERSOAKER ONE RIB ($< 34\text{mm}$) + UNDERSOAKER (TRAPEZOIDAL & TRAY) 3 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)

BARGE WITH PROFILED CLADDING

UNDERSOAKER
FLASHING REQUIRED
FOR NZ MRM COP
CATEGORY D ONLY

PRE-FINISHED
BARGE FLASHING



ALTERNATIVE
OPTION
BIRDS BEAK EDGE

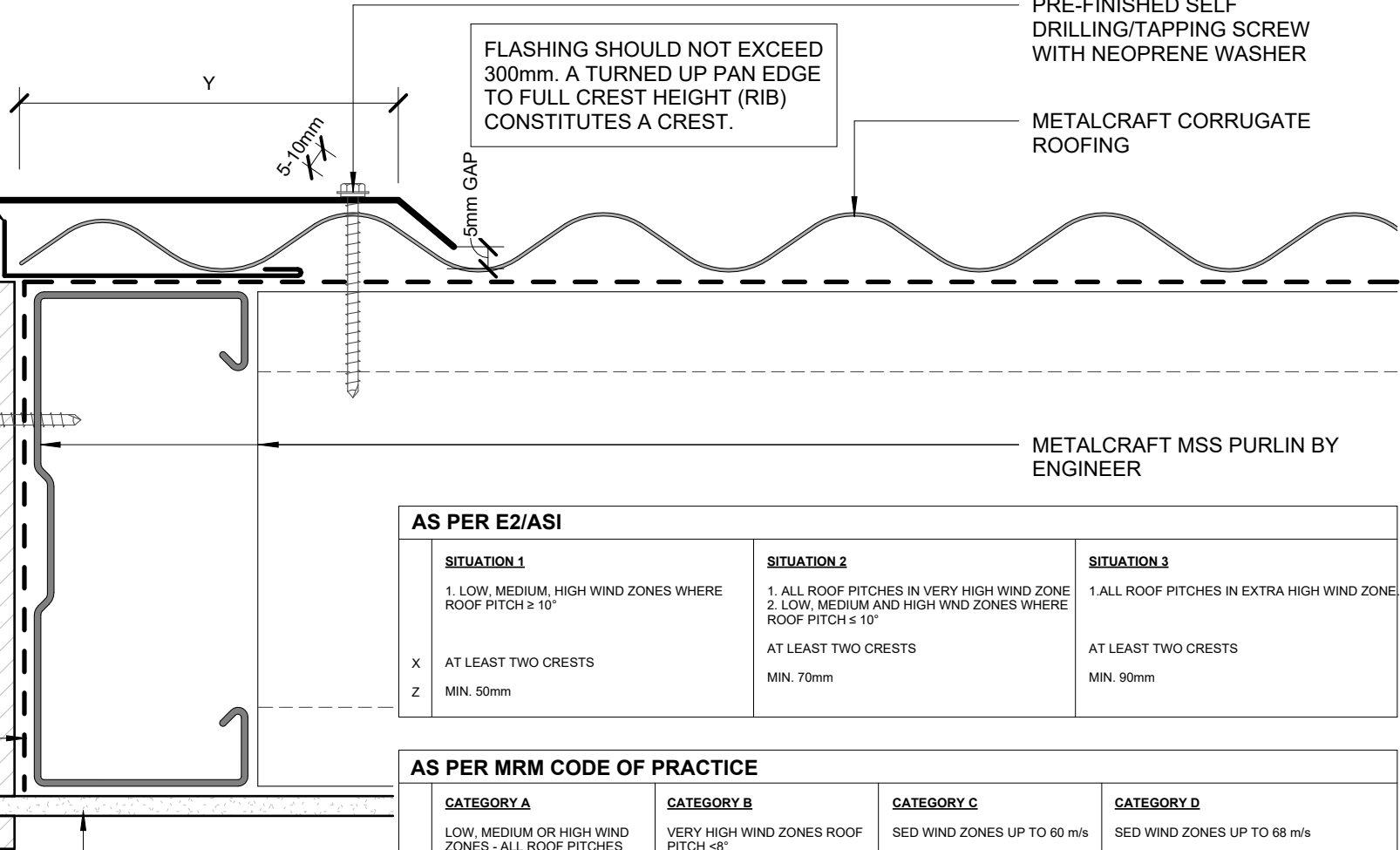
HEMMED EDGE

PRE-FINISHED SELF
DRILLING/TAPPING SCREW WITH
NEOPRENE WASHER

PERMEABLE UNDERLAY

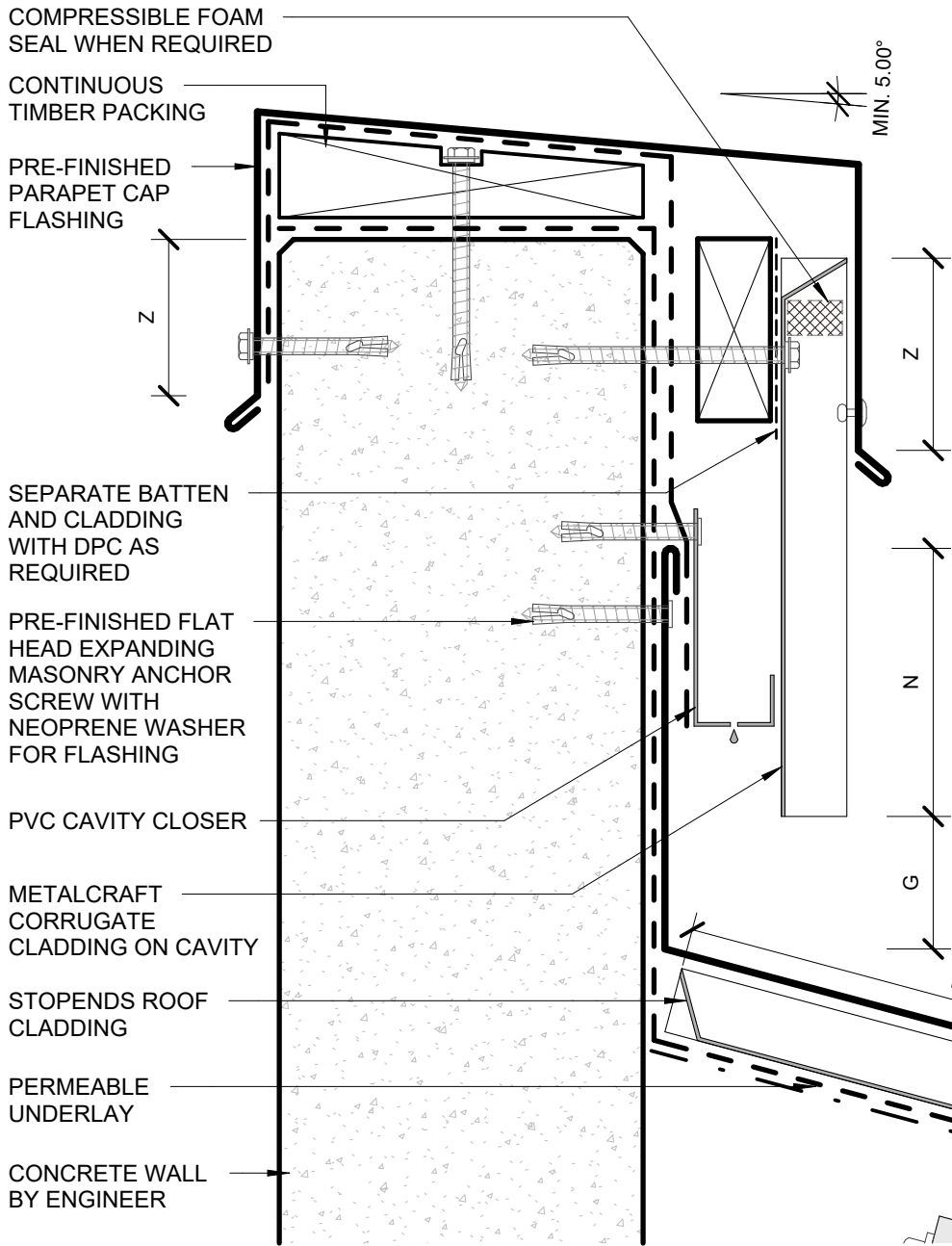
BARGE BOARD PRE
PRIMED

SOFFIT LINING



AS PER E2/ASI			
	SITUATION 1	SITUATION 2	SITUATION 3
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X	AT LEAST TWO CRESTS	AT LEAST TWO CRESTS	AT LEAST TWO CRESTS
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AS PER MRM CODE OF PRACTICE				
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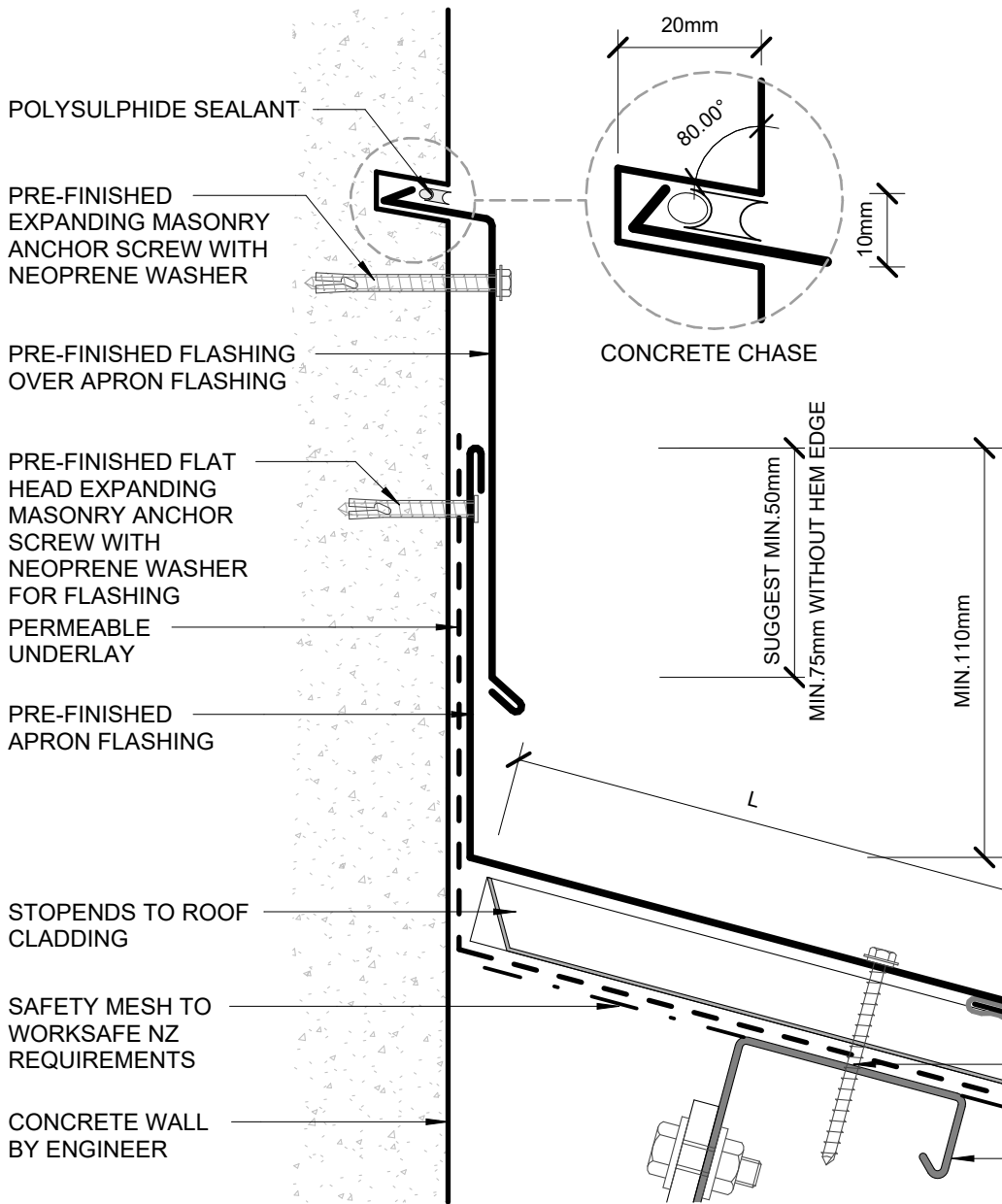
AS PER E2/ASI			
	SITUATION 1	SITUATION 2	SITUATION 3
	1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH $\geq 10^\circ$	1. VERY HIGH WIND ZONE 2. LOW, MEDIUM AND HIGH WIND ZONES WHERE ROOF PITCHES $\leq 10^\circ$	1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE
G	MIN. 35mm	MIN. 35mm	MIN. 35mm
N	MIN. 75mm	MIN. 75mm	MIN. 75mm
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)
Z	MIN. 50mm	MIN. 70mm	MIN. 90mm

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	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
G	25mm	25mm	25mm	25mm
N	MIN. 50mm + HEM OR 75mm (VERTICALLY UP FACE - SMOOTH) MIN. 75mm + HEM OR 100mm (VERTICALLY UP FACE - PROFILED)	MIN. 75mm + HEM OR 100mm (VERTICALLY UP FACE - SMOOTH) MIN. 100mm + HEM OR 125mm (VERTICALLY UP FACE - PROFILED)	MIN. 100mm + HEM OR 125mm (VERTICALLY UP FACE - SMOOTH) MIN. 125mm + HEM (VERTICALLY UP FACE - PROFILED)	MIN. 100mm + HEM OR 125mm (VERTICALLY UP FACE - SMOOTH) MIN. 125mm + HEM (VERTICALLY UP FACE - PROFILED)
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* CORRUGATE MIN. ROOF PITCH = 8°

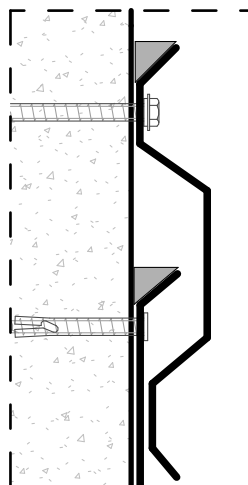
- PRE-FINISHED APRON FLASHING
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- SOFT EDGE DRESSED OVER CORRUGATE RIBS
- SAFETY MESH TO WORKSAFE NZ REQUIREMENTS
- METALCRAFT CORRUGATE ROOFING
- METALCRAFT MSS PURLIN BY ENGINEER

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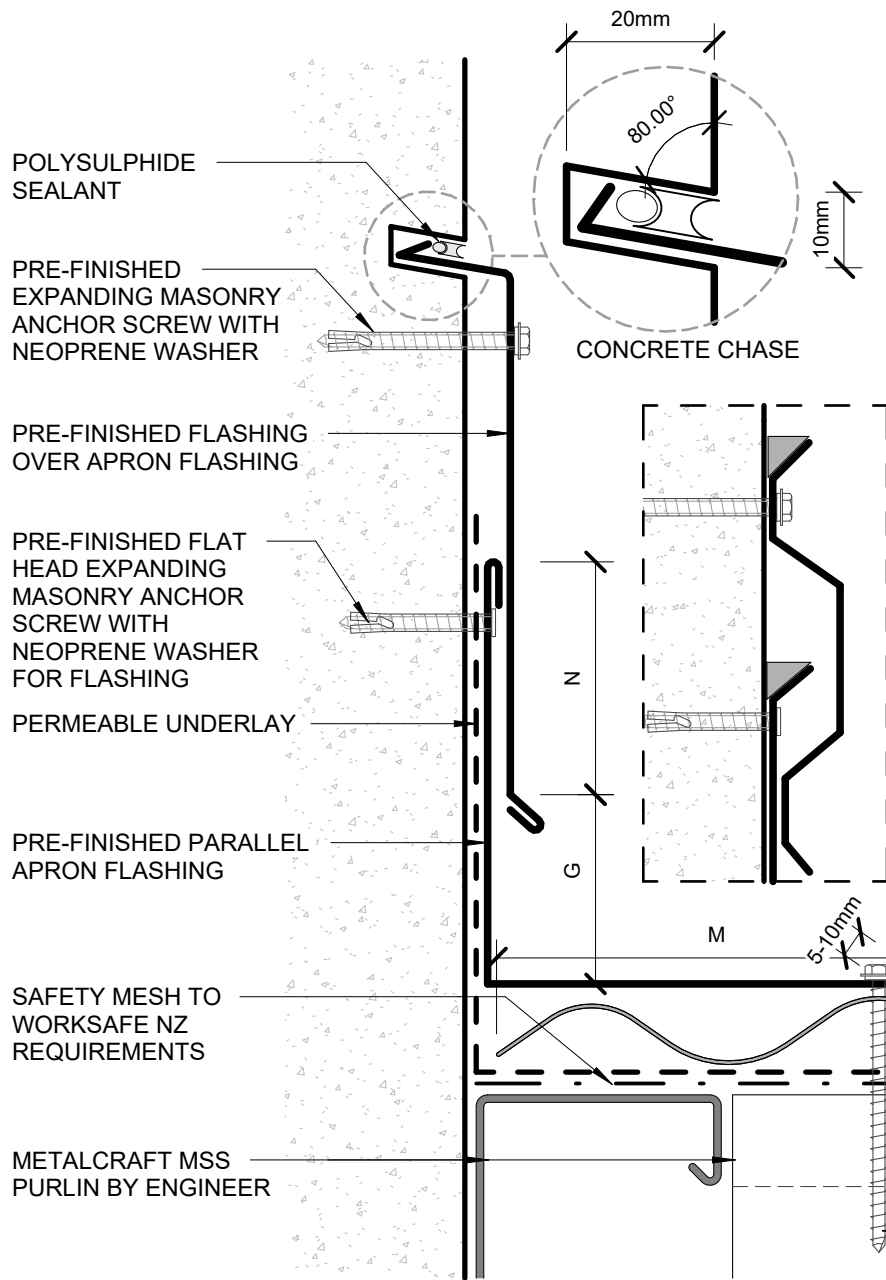


AS PER E2/ASI			
	SITUATION 1 1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH $\geq 10^\circ$ L MIN. 130mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)	SITUATION 2 1. VERY HIGH WIND ZONE 2. LOW, MEDIUM, AND HIGH WIND ZONES WHERE ROOF PITCH $\leq 10^\circ$ L MIN. 200mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)	SITUATION 3 1. ALL ROOF PITCHES EXTRA HIGH WIND ZONE MIN. 200mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)

AS PER MRM CODE OF PRACTICE			
CATEGORY A LOW, MEDIUM OR HIGH WIND ZONES - ALL ROOF PITCHES L MIN. 150mm	CATEGORY B VERY HIGH WIND ZONES ROOF PITCH $< 8^\circ$ EXTRA HIGH WIND ZONES - ALL ROOF PITCHES MIN. 200mm	CATEGORY C SED WIND ZONES UP TO 60 m/s ALL ROOF PITCH MIN. 200mm	CATEGORY D SED WIND ZONES UP TO 68 m/s ALL ROOF PITCH MIN. 200mm + BAFFLE (REFER NZ MRM COP)



FACE FIXED ALTERNATIVE



AS PER E2/ASI			
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G	MIN. 35mm	MIN. 35mm	MIN. 35mm
N	MIN. 75mm	MIN. 75mm	MIN. 75mm
M	AT LEAST TWO CRESTS	AT LEAST TWO CRESTS	AT LEAST TWO CRESTS

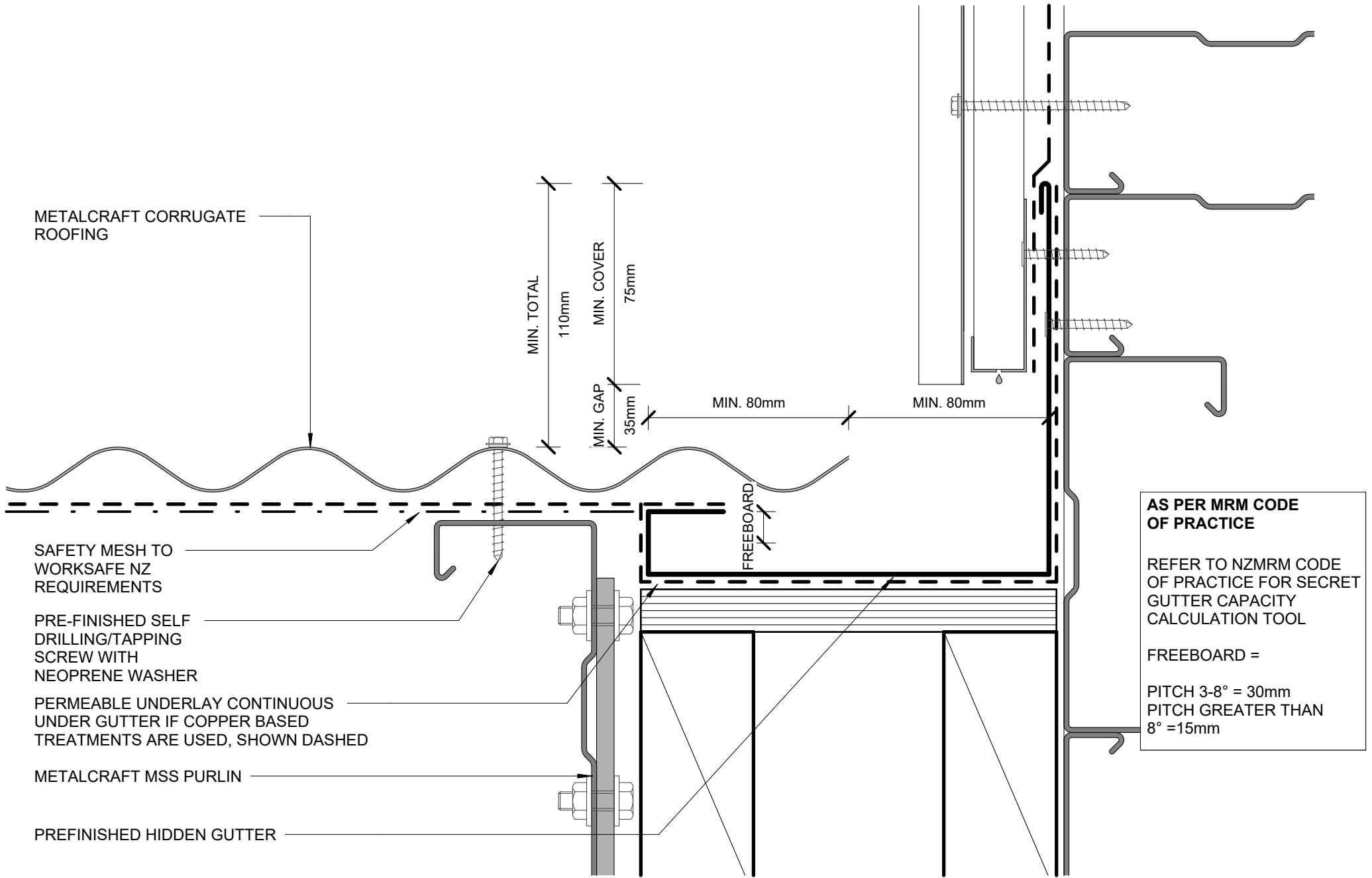
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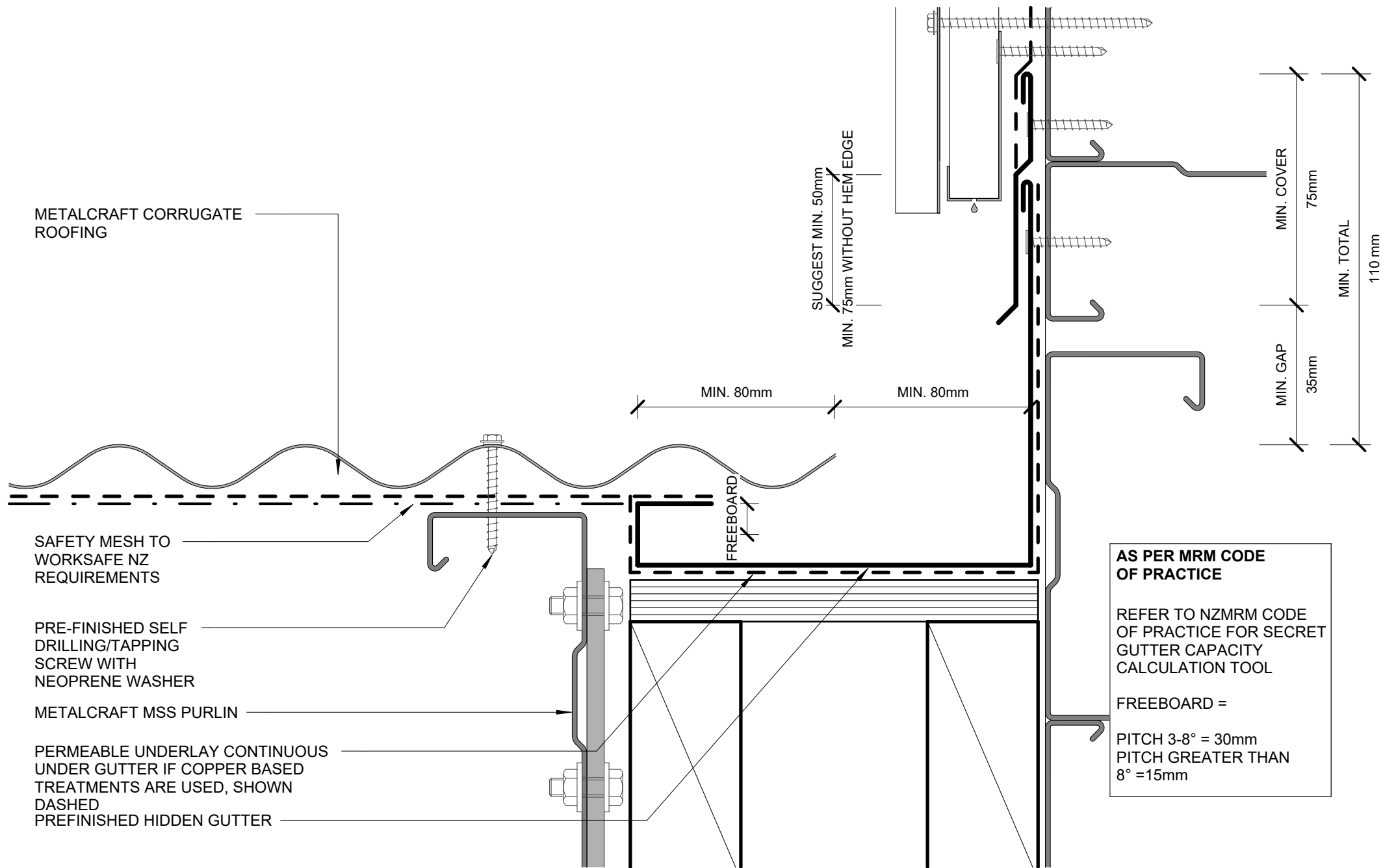
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FACE FIXED ALTERNATIVE

METALCRAFT CORRUGATE ROOFING

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH NEOPRENE WASHER





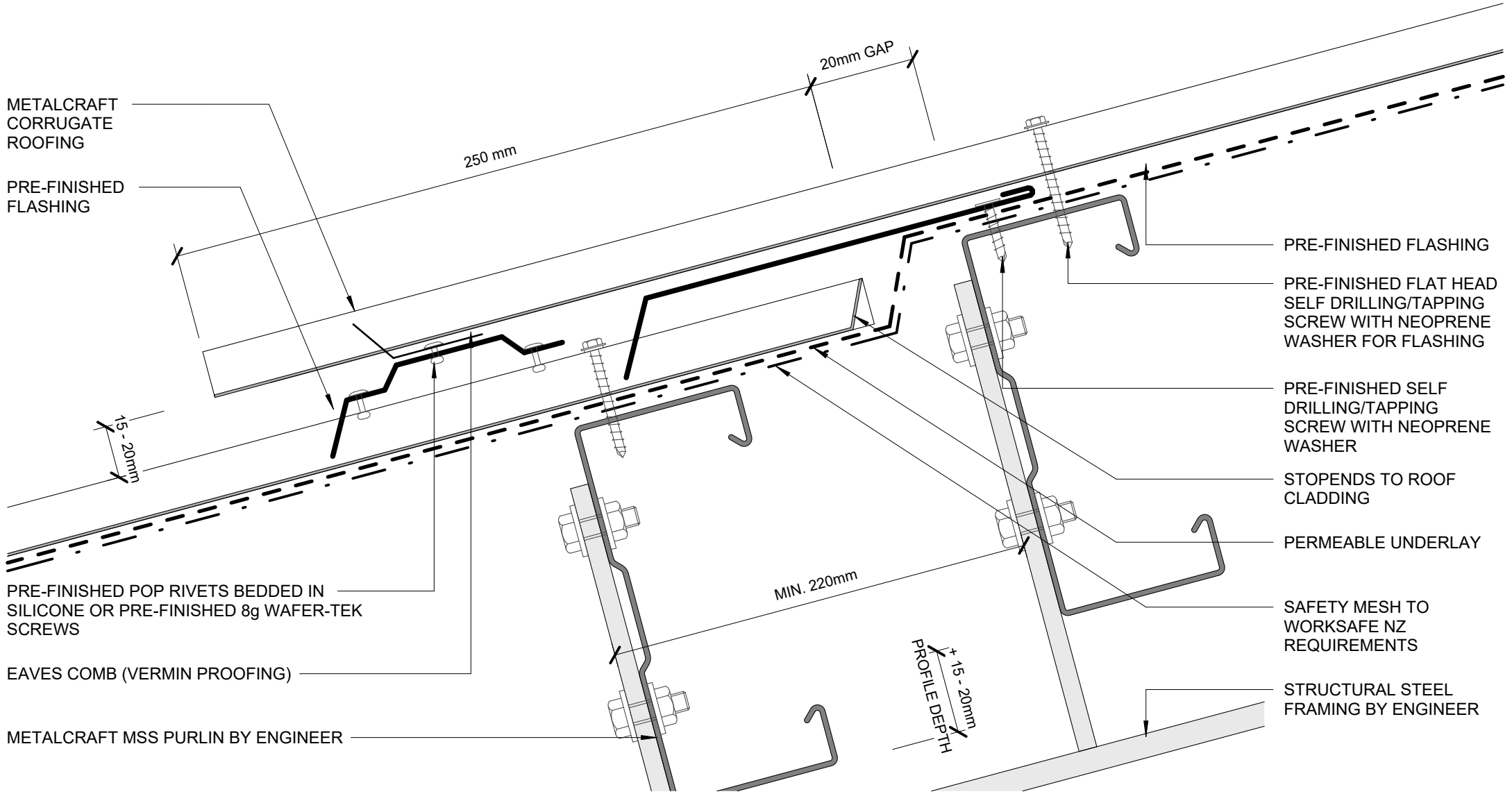
PARALLEL HIDDEN GUTTER (2 PART FLASHING)

Corrugate Rev. 2.0 COMMERCIAL ROOFING

Reference CRCG Date JUNE 2024 Scale 1 : 2 Sheet **E 12 / 16**

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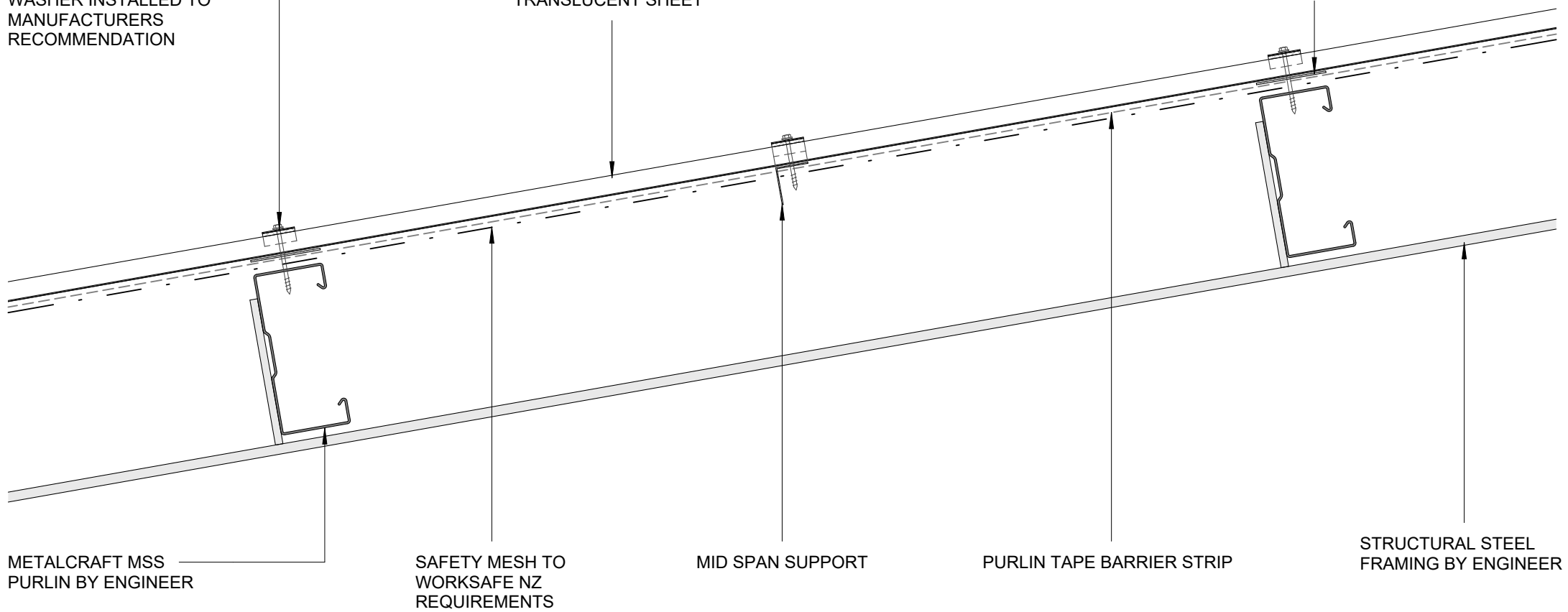
* CORRUGATE
MIN. ROOF PITCH = 8°
15.00°



FIXING WITH PROFILED WASHER AND EPDM WASHER INSTALLED TO MANUFACTURERS RECOMMENDATION

METALCRAFT CORRUGATE TRANSLUCENT SHEET

PURLIN PROTECTION



METALCRAFT MSS PURLIN BY ENGINEER

SAFETY MESH TO WORKSAFE NZ REQUIREMENTS

MID SPAN SUPPORT

PURLIN TAPE BARRIER STRIP

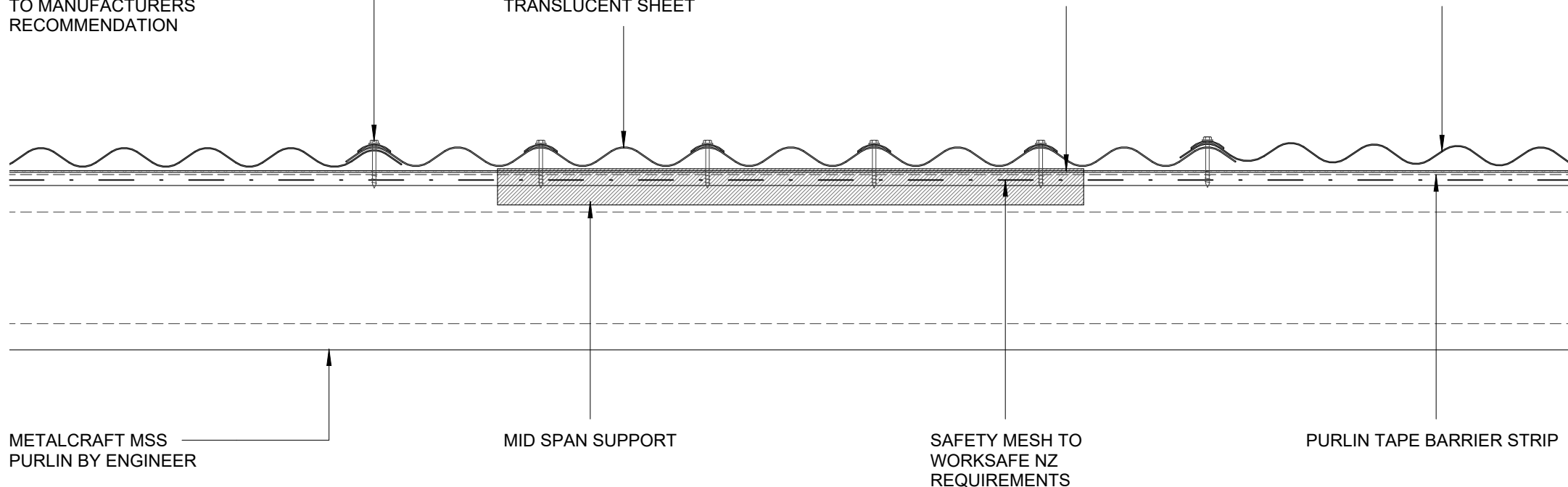
STRUCTURAL STEEL FRAMING BY ENGINEER

FIXING WITH PROFILED WASHER AND EPDM WASHER INSTALLED TO MANUFACTURERS RECOMMENDATION

ALSYNITE ONE LTD CORRUGATE TRANSLUCENT SHEET

PURLIN PROTECTION

METALCRAFT CORRUGATE ROOFING



METALCRAFT MSS PURLIN BY ENGINEER

MID SPAN SUPPORT

SAFETY MESH TO WORKSAFE NZ REQUIREMENTS

PURLIN TAPE BARRIER STRIP

FIXING AND MID SPAN SUPPORT AS PER ALSYNITE ONE LTD LITERATURE WWW.ALSYNITE.CO.NZ

