

Metcom 930

COMMERCIAL ROOFING

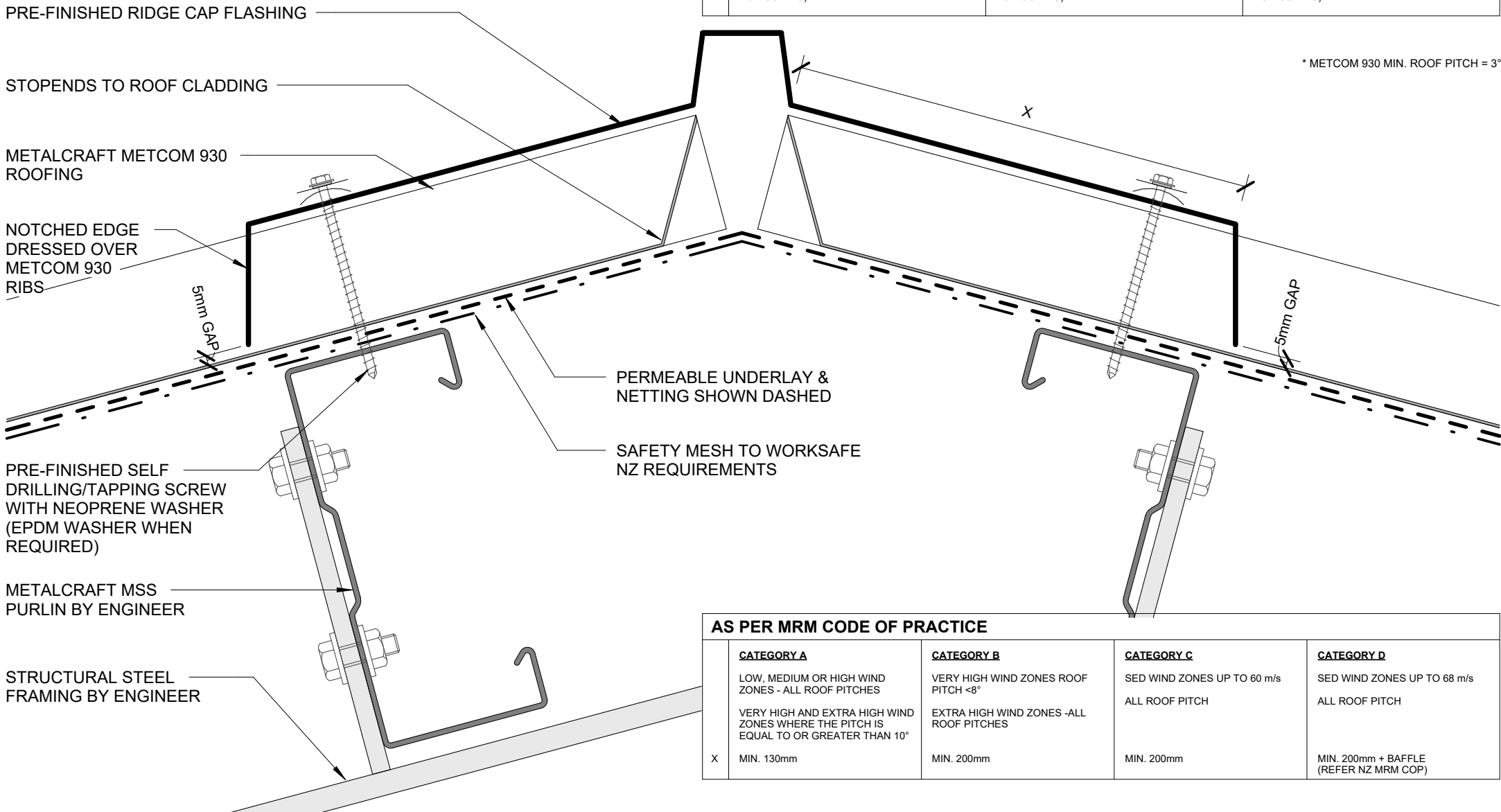
<u>DETAIL LIST</u>	<u>Revision</u>	<u>Date</u>
D 00 / 16	COVER SHEET	
D 01 / 16	RIDGE WITH PROFILED APEX	3.0 SEP 2024
D 02 / 16	RIDGE WITH ROUND TOP APEX	3.0 SEP 2024
D 03 / 16	SAWTOOTH RIDGE	3.0 SEP 2024
D 04 / 16	INTERNAL GUTTER	3.0 SEP 2024
D 05 / 16	FLUSH EAVE WITH INTERNAL GUTTER BRACKET	3.0 SEP 2024
D 06 / 16	BARGE WITH NO SOFFIT	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

CRMCM930

Metalcraft
Roofing
www.metalcraftgroup.co.nz

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)



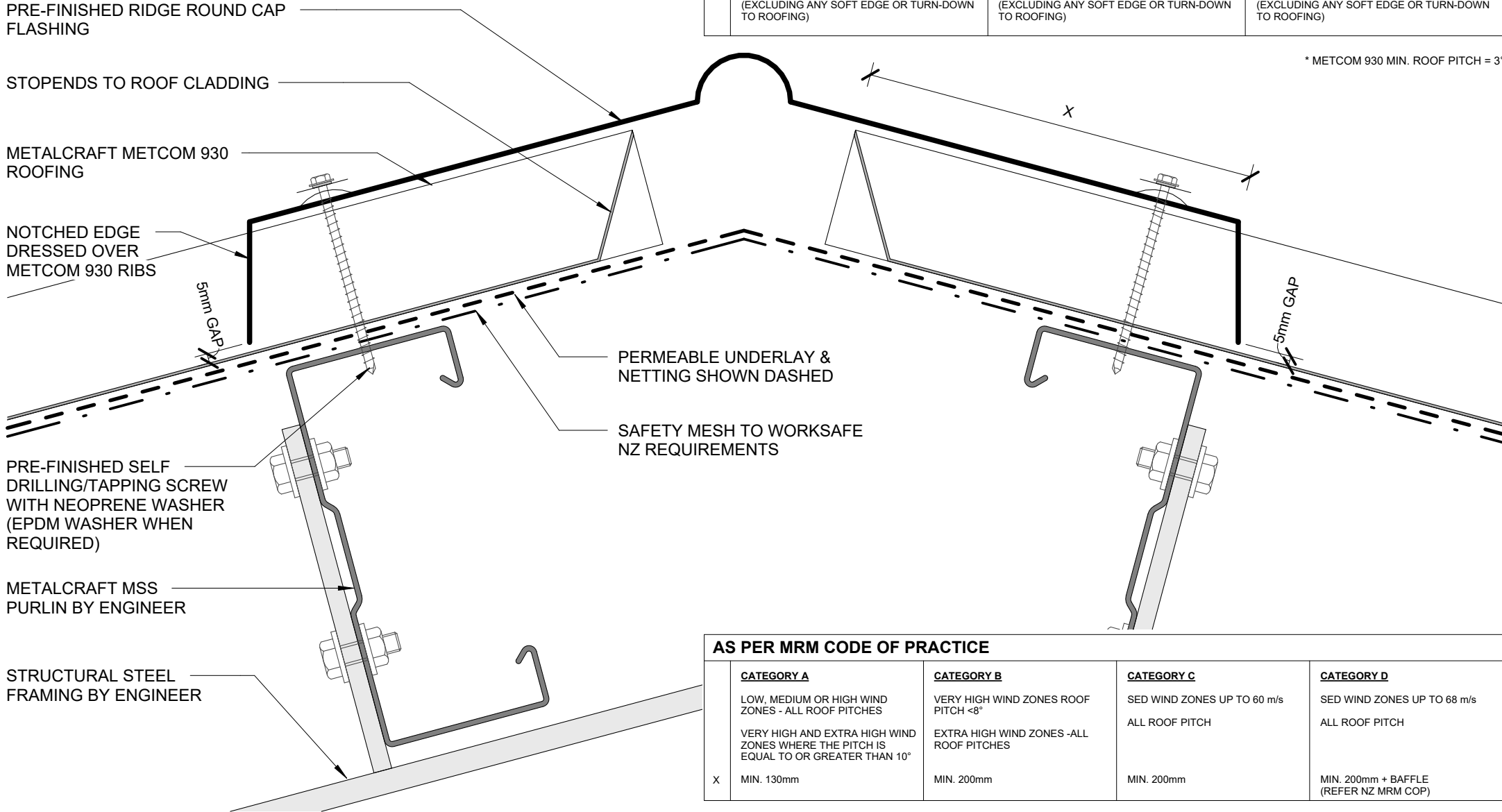
AS PER MRM CODE OF PRACTICE

	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

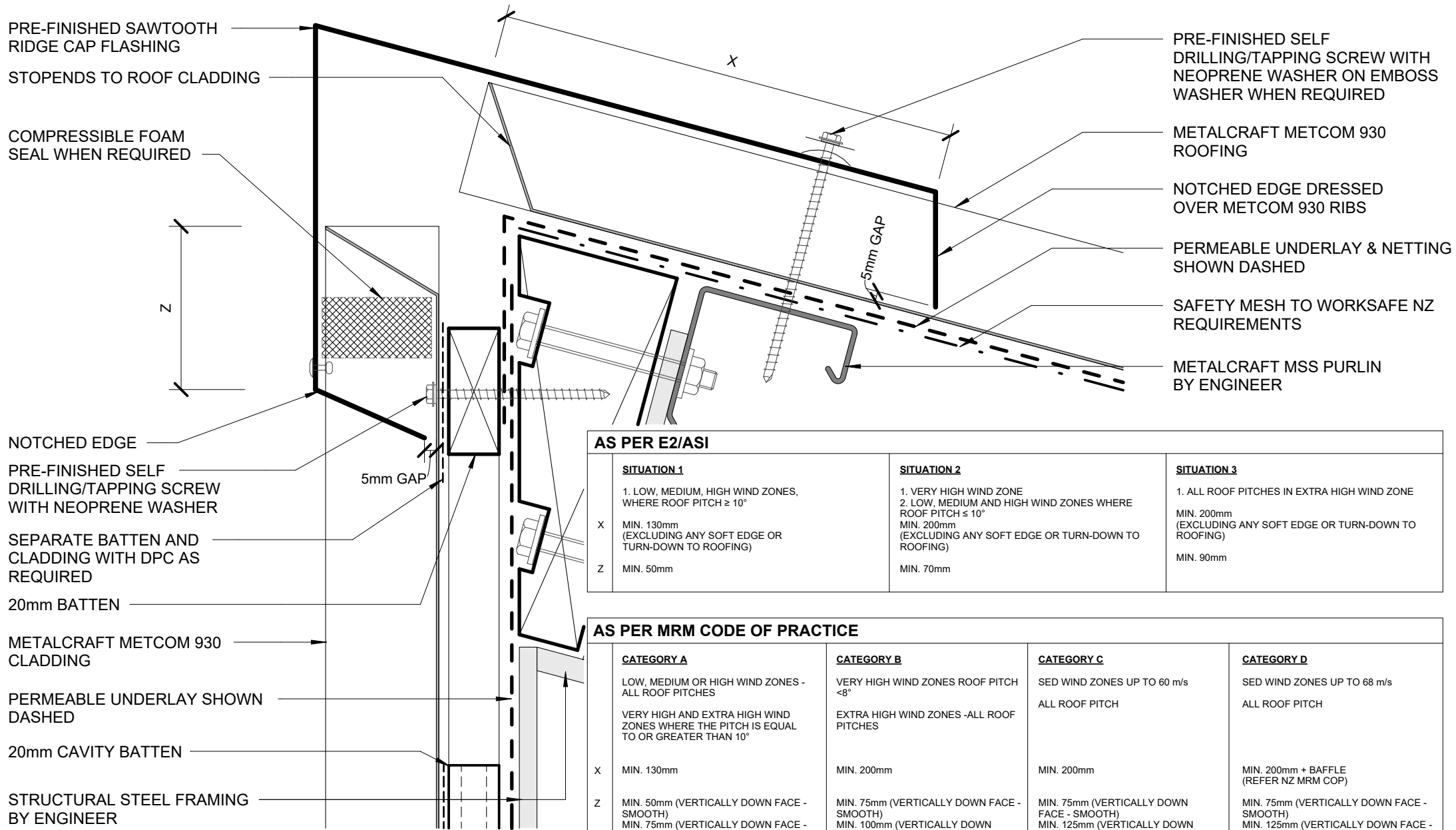
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	1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH $\geq 10^\circ$	1. VERY HIGH WIND ZONE 2. LOW, MEDIUM & HIGH WIND ZONES WHERE ROOF PITCH $\leq 10^\circ$	1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE.
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* METCOM 930 MIN. ROOF PITCH = 3°



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



PRE-FINISHED SAWTOOTH RIDGE CAP FLASHING
STOPENDS TO ROOF CLADDING

COMPRESSIBLE FOAM SEAL WHEN REQUIRED

NOTCHED EDGE
PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH NEOPRENE WASHER

SEPARATE BATTEN AND CLADDING WITH DPC AS REQUIRED
20mm BATTEN

METALCRAFT METCOM 930 CLADDING

PERMEABLE UNDERLAY SHOWN DASHED

20mm CAVITY BATTEN

STRUCTURAL STEEL FRAMING BY ENGINEER

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH NEOPRENE WASHER ON EMBOSS WASHER WHEN REQUIRED

METALCRAFT METCOM 930 ROOFING

NOTCHED EDGE DRESSED OVER METCOM 930 RIBS

PERMEABLE UNDERLAY & NETTING SHOWN DASHED

SAFETY MESH TO WORKSAFE NZ REQUIREMENTS

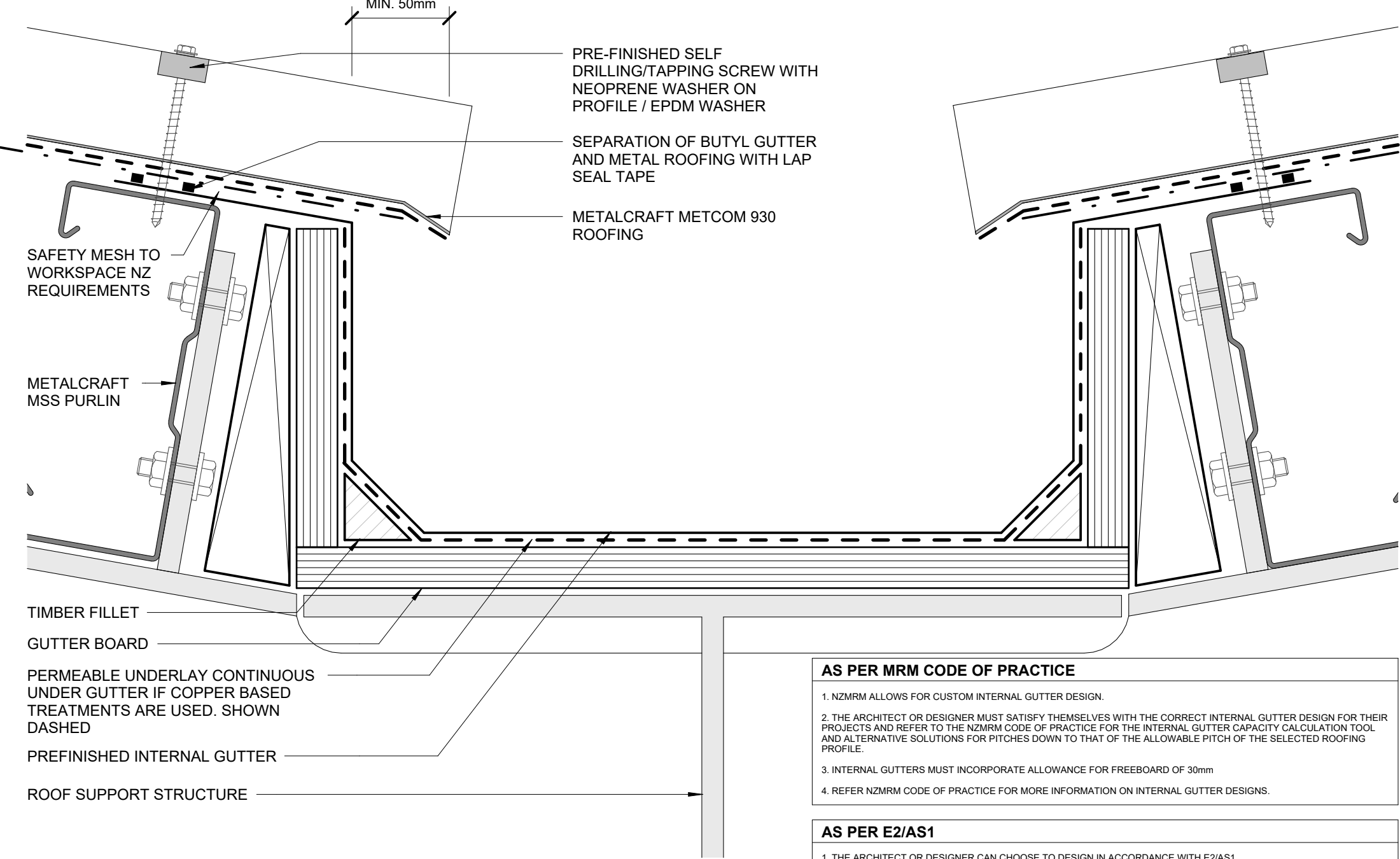
METALCRAFT MSS PURLIN BY ENGINEER

AS PER E2/ASI

	<u>SITUATION 1</u>	<u>SITUATION 2</u>	<u>SITUATION 3</u>
	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

	<u>CATEGORY A</u>	<u>CATEGORY B</u>	<u>CATEGORY C</u>	<u>CATEGORY D</u>
	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	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)
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)



MIN. 50mm

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH NEOPRENE WASHER ON PROFILE / EPDM WASHER

SEPARATION OF BUTYL GUTTER AND METAL ROOFING WITH LAP SEAL TAPE

METALCRAFT METCOM 930 ROOFING

SAFETY MESH TO WORKSPACE NZ REQUIREMENTS

METALCRAFT MSS PURLIN

TIMBER FILLET

GUTTER BOARD

PERMEABLE UNDERLAY CONTINUOUS UNDER GUTTER IF COPPER BASED TREATMENTS ARE USED. SHOWN DASHED

PREFINISHED INTERNAL GUTTER

ROOF SUPPORT STRUCTURE

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

* METCOM 930 MIN. ROOF PITCH = 3°

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

DIMENSION TO SUIT
 SUGGEST MIN. 125mm

METALCRAFT METCOM 930 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

DPC SEPERATION AS REQUIRED

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH NEOPRENE WASHER

SEPARATE BATTEN AND CLADDING WITH DPC AS REQUIRED

METALCRAFT METCOM 930 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

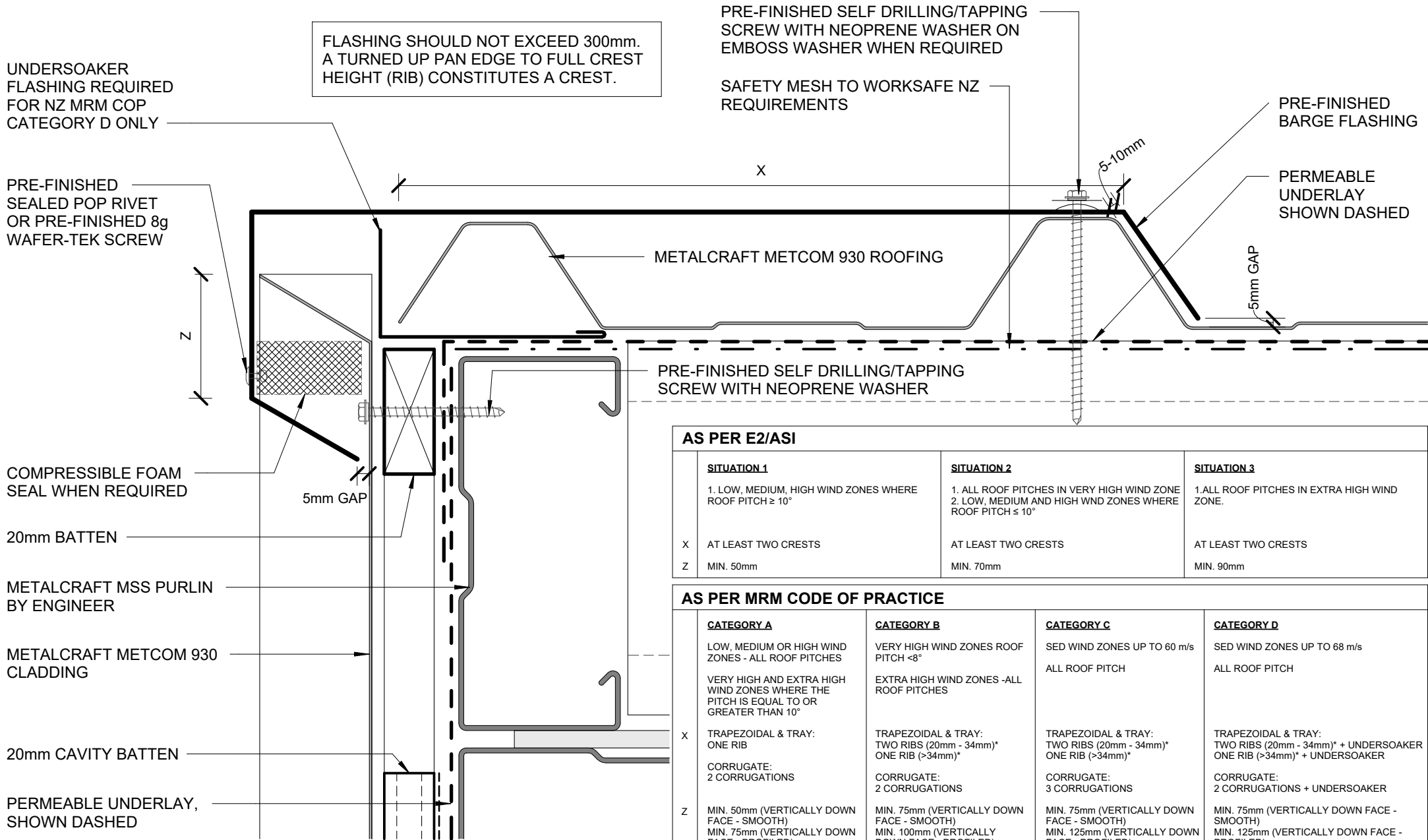
5mm GAP

PACKER

SAFETY MESH TO WORKSAFE NZ REQUIREMENTS

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH NEOPRENE WASHER ON PROFILE / EPDM WASHER

STRUCTURAL STEEL FRAMING BY ENGINEER



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 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 NO SOFFIT
COMMERCIAL ROOFING

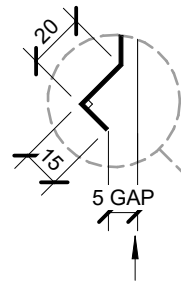
FLASHING SHOULD NOT EXCEED 300mm.
A TURNED UP PAN EDGE TO FULL CREST HEIGHT (RIB) CONSTITUTES A CREST.

METALCRAFT METCOM 930
ROOFING

PRE-FINISHED SELF
DRILLING/TAPPING SCREW WITH
NEOPRENE WASHER ON EMBOSS
WASHER WHEN REQUIRED

UNDERSOAKER
FLASHING REQUIRED
FOR NZ MRM COP
CATEGORY D ONLY

PRE-FINISHED
BARGE FLASHING



ALTERNATIVE
OPTION
BIRDS BEAK EDGE

NOTCHED EDGE

PRE-FINISHED SELF
DRILLING/TAPPING SCREW
WITH NEOPRENE WASHER

PERMEABLE UNDERLAY & NETTING
SHOWN DASHED

BARGE BOARD PRE PRIMED

SOFFIT LINING

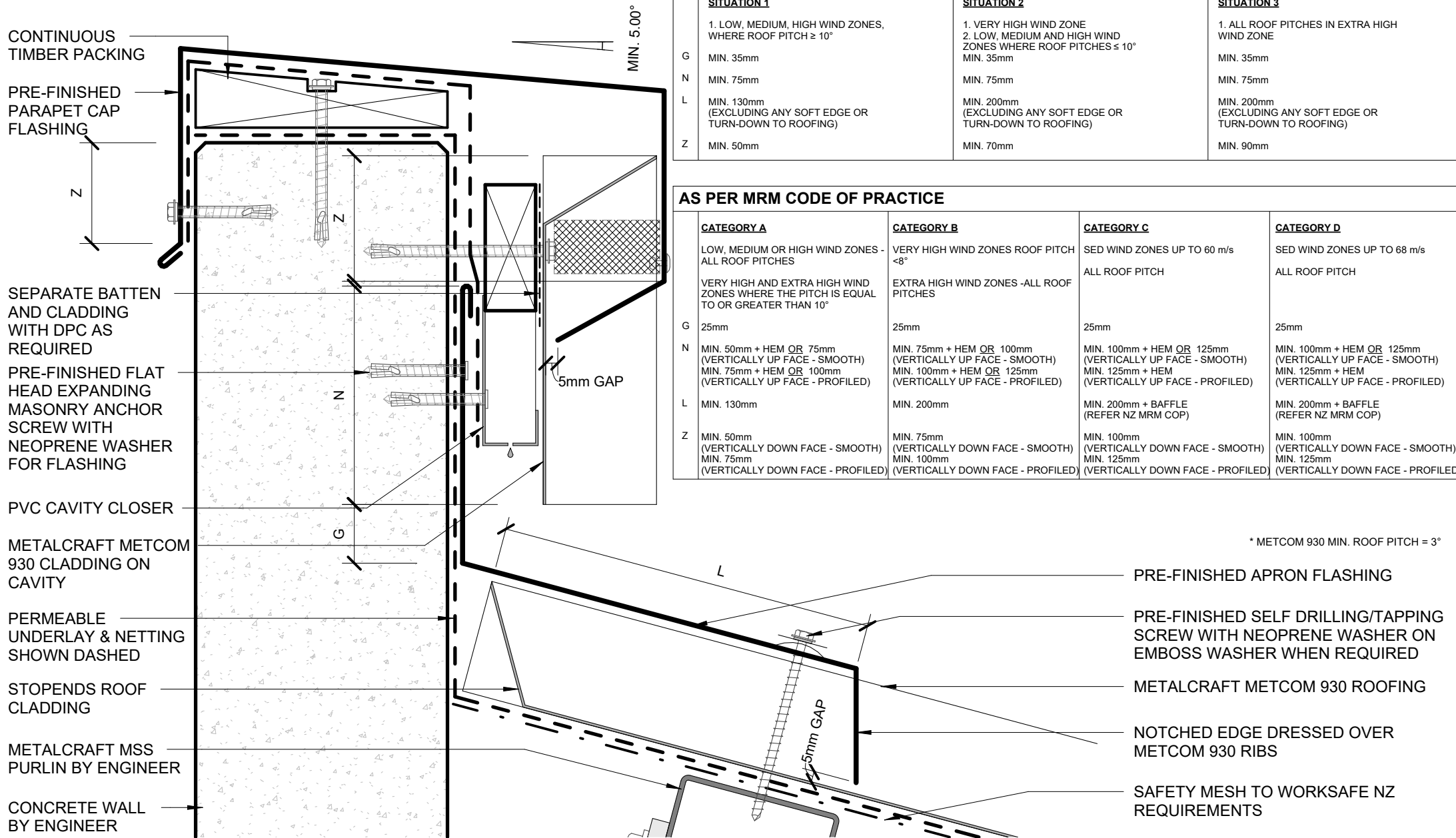
PRE-FINISHED SELF DRILLING/TAPPING
SCREW WITH NEOPRENE WASHER

METALCRAFT
MSS PURLIN
BY ENGINEER

AS PER E2/ASI			
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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				
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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)

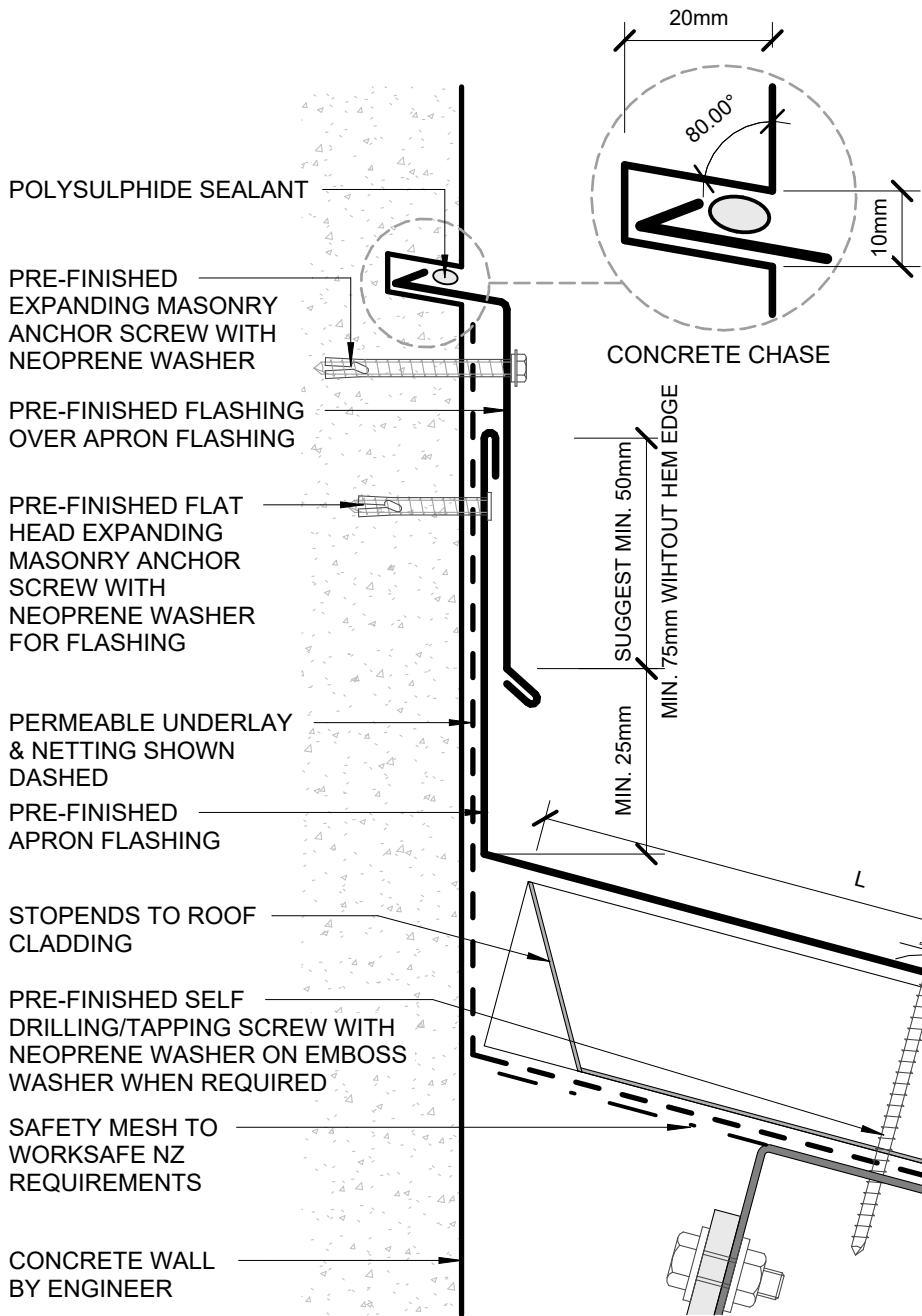
* RIB HEIGHT OF PROFILE OR TURNUP



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	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)
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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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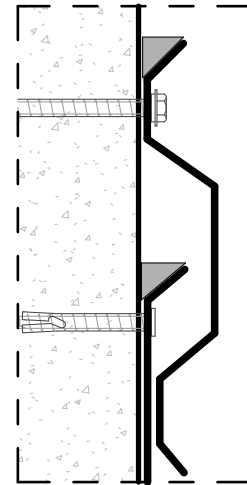
* METCOM 930 MIN. ROOF PITCH = 3°



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

* METCOM 930 MIN. ROOF PITCH = 3°



FACE FIXED ALTERNATIVE

- NOTCHED EDGE DRESSED OVER METCOM 930 RIBS
- METALCRAFT METCOM 930 ROOFING
- METALCRAFT MSS PURLIN BY ENGINEER

POLYSULPHIDE SEALANT

PRE-FINISHED EXPANDING MASONRY ANCHOR SCREW WITH NEOPRENE WASHER

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

PRE-FINISHED FLASHING OVER APRON FLASHING

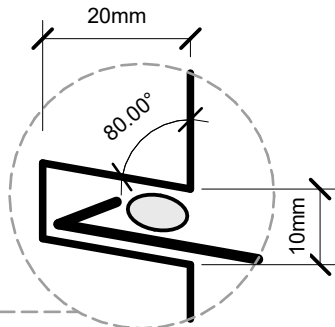
PERMEABLE UNDERLAY & NETTING SHOWN DASHED

PRE-FINISHED PARALLEL APRON FLASHING

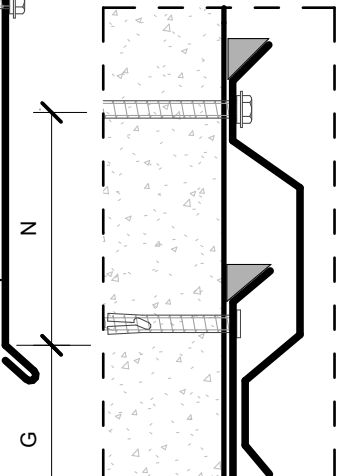
UNDERSOAKER FLASHING REQUIRED FOR NZ MRM COP CATEGORY D ONLY

SAFETY MESH TO WORKSAFE NZ REQUIREMENTS

METALCRAFT MSS PURLIN BY ENGINEER



CONCRETE CHASE



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

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
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* RIB HEIGHT OF PROFILE OR TURNUP

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

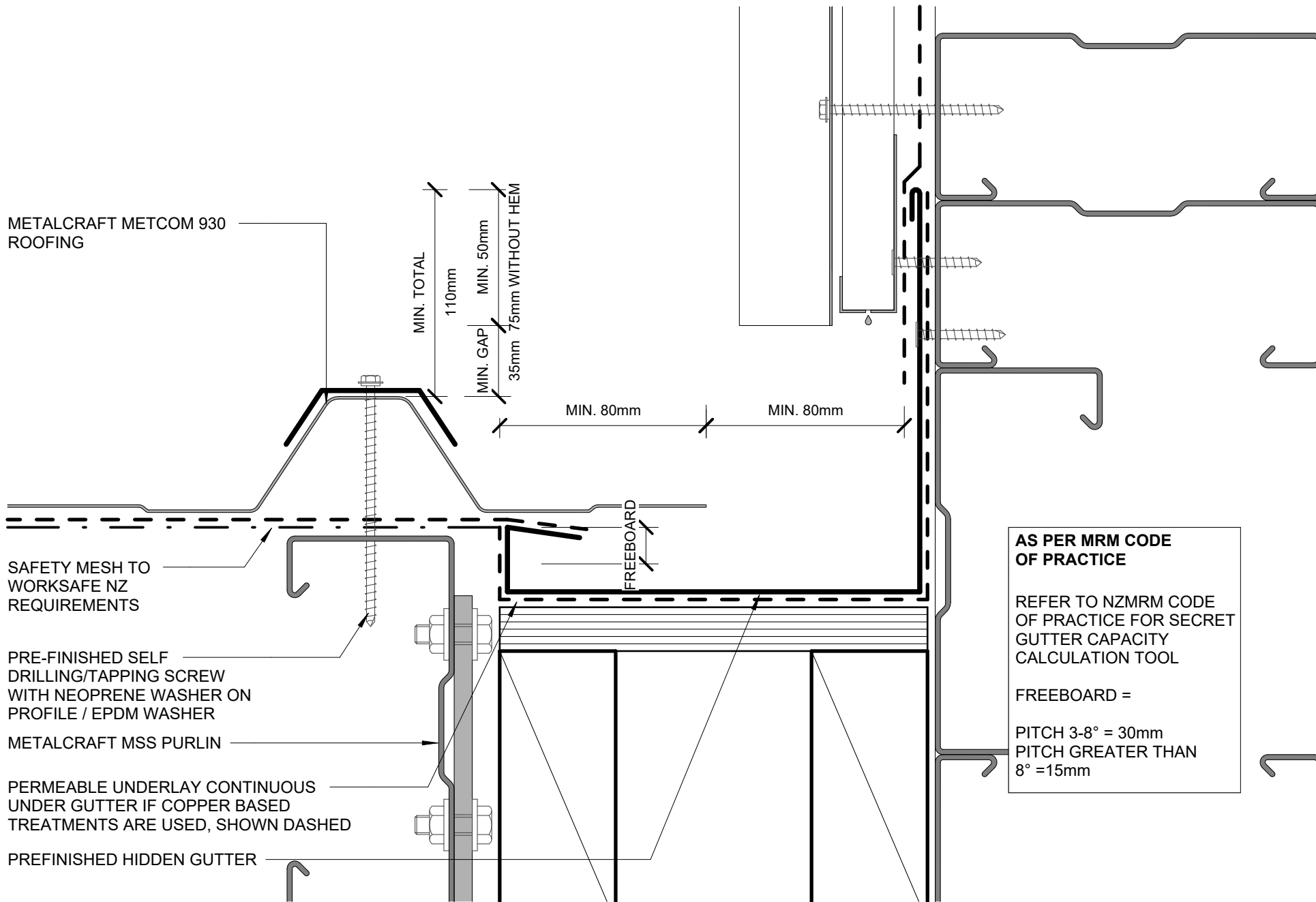
5-10mm

5mm GAP

METALCRAFT METCOM 930 ROOFING

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH NEOPRENE WASHER ON EMBOSS WASHER WHEN REQUIRED

METALCRAFT METCOM 930 ROOFING



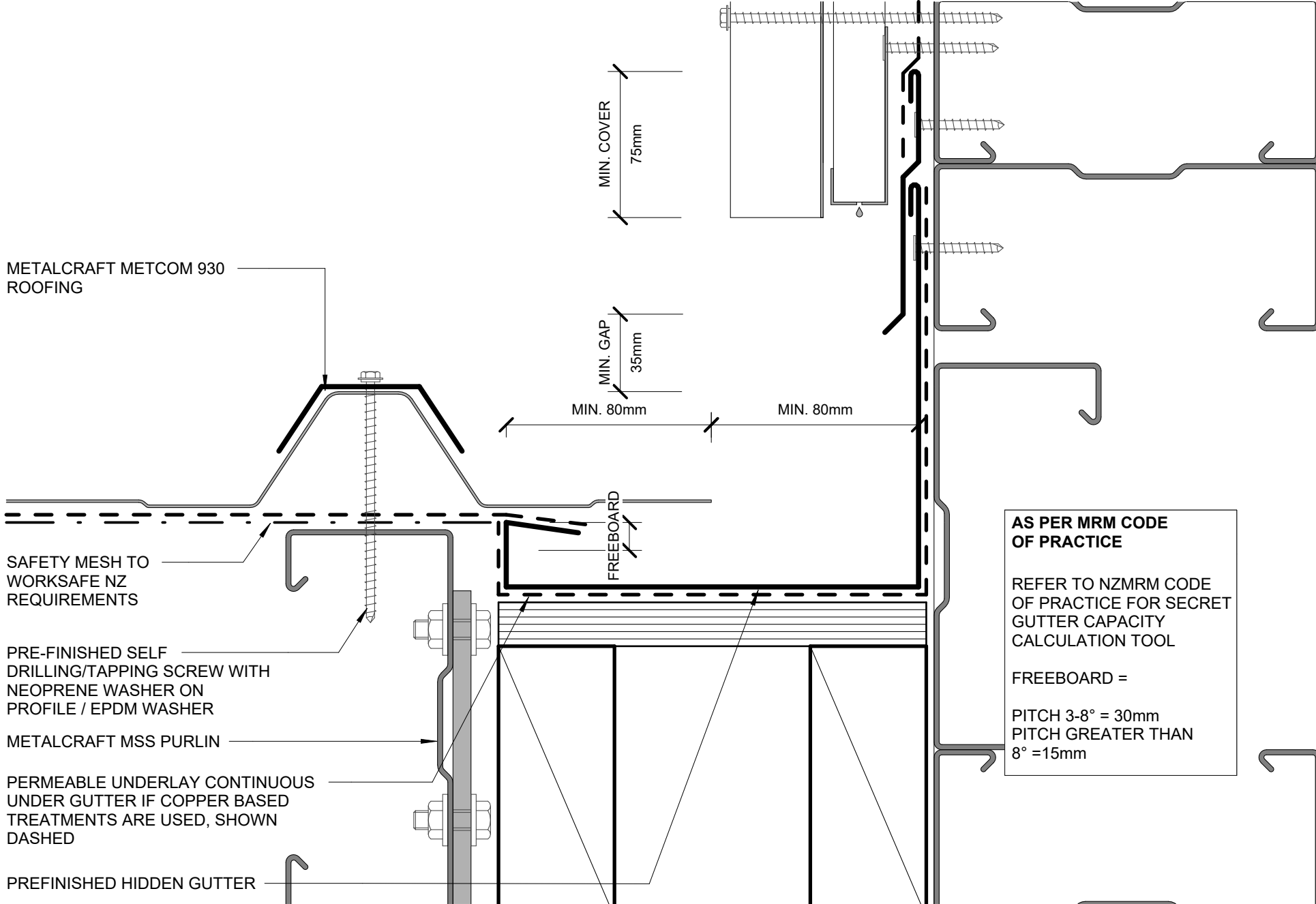
SAFETY MESH TO WORKSAFE NZ REQUIREMENTS

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH NEOPRENE WASHER ON PROFILE / EPDM WASHER

METALCRAFT MSS PURLIN

PERMEABLE UNDERLAY CONTINUOUS UNDER GUTTER IF COPPER BASED TREATMENTS ARE USED, SHOWN DASHED

PREFINISHED HIDDEN GUTTER



METALCRAFT METCOM 930 ROOFING

SAFETY MESH TO WORKSAFE NZ REQUIREMENTS

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH NEOPRENE WASHER ON PROFILE / EPDM WASHER

METALCRAFT MSS PURLIN

PERMEABLE UNDERLAY CONTINUOUS UNDER GUTTER IF COPPER BASED TREATMENTS ARE USED, SHOWN DASHED

PREFINISHED HIDDEN GUTTER

MIN. COVER
75mm

MIN. GAP
35mm

MIN. 80mm

MIN. 80mm

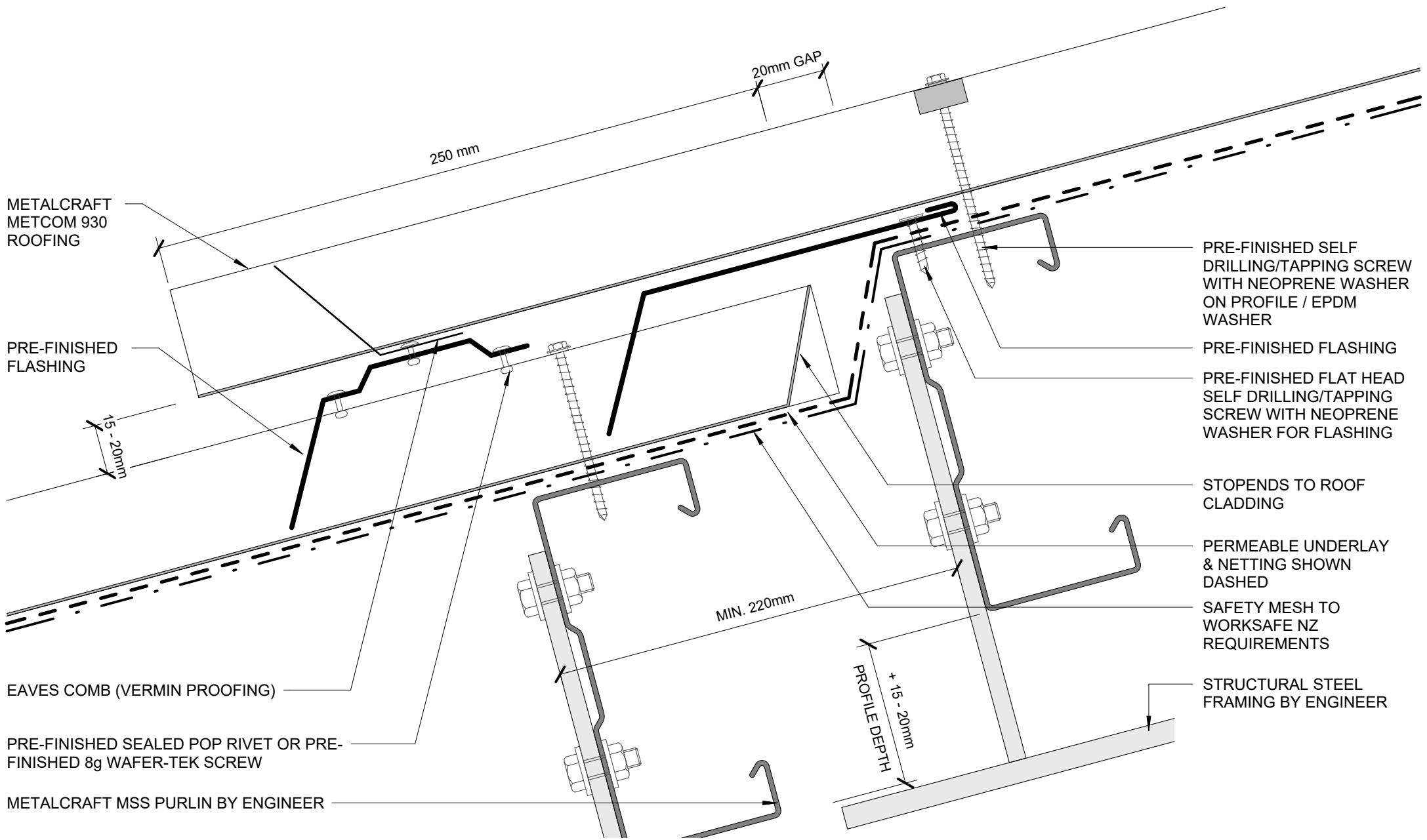
FREEBOARD

AS PER MRM CODE OF PRACTICE

REFER TO NZMRM CODE OF PRACTICE FOR SECRET GUTTER CAPACITY CALCULATION TOOL

FREEBOARD =

PITCH 3-8° = 30mm
PITCH GREATER THAN 8° = 15mm



METALCRAFT
METCOM 930
ROOFING

PRE-FINISHED
FLASHING

15 - 20mm

EAVES COMB (VERMIN PROOFING)

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

METALCRAFT MSS PURLIN BY ENGINEER

250 mm

20mm GAP

MIN. 220mm

PROFILE DEPTH
+ 15 - 20mm

PRE-FINISHED SELF
DRILLING/TAPPING SCREW
WITH NEOPRENE WASHER
ON PROFILE / EPDM
WASHER

PRE-FINISHED FLASHING

PRE-FINISHED FLAT HEAD
SELF DRILLING/TAPPING
SCREW WITH NEOPRENE
WASHER FOR FLASHING

STOPENDS TO ROOF
CLADDING

PERMEABLE UNDERLAY
& NETTING SHOWN
DASHED

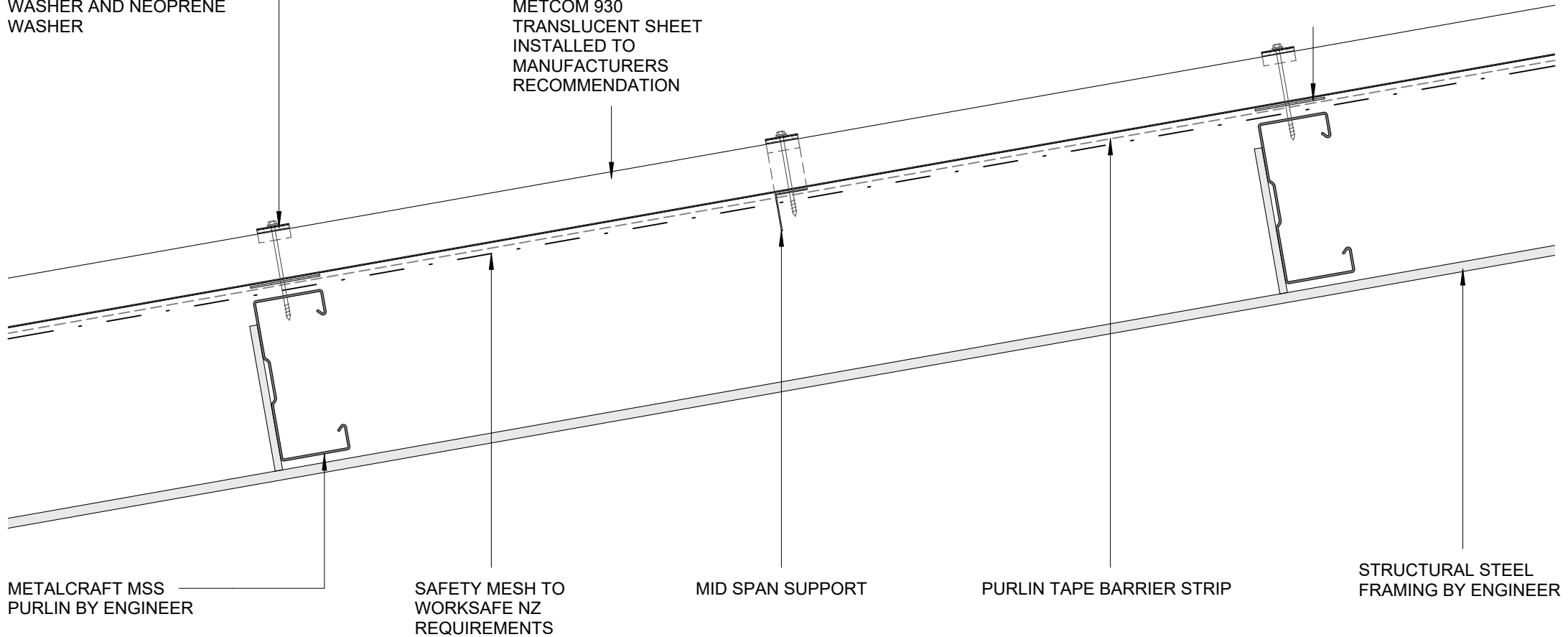
SAFETY MESH TO
WORKSAFE NZ
REQUIREMENTS

STRUCTURAL STEEL
FRAMING BY ENGINEER

FIXING WITH PROFILED
WASHER AND NEOPRENE
WASHER

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INSTALLED TO
MANUFACTURERS
RECOMMENDATION

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

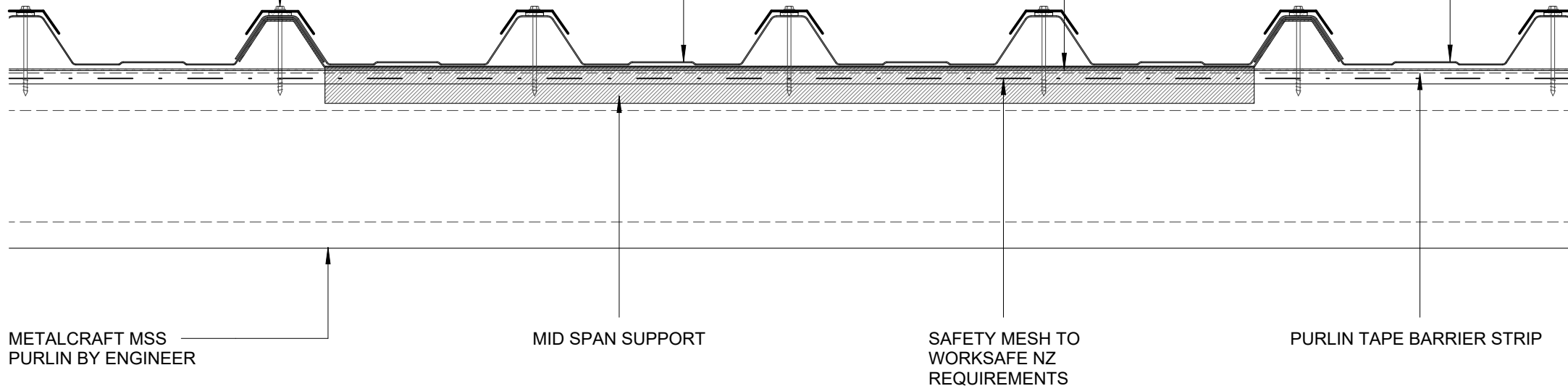
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FIXING WITH PROFILED
WASHER AND NEOPRENE
WASHER

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PURLIN PROTECTION

METALCRAFT METCOM 930
ROOFING



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