MC 1000

COMMERCIAL ROOFING

DETAIL LIST		Revision	Date
D 00 / 17	COVER SHEET		
D 01 / 17	RIDGE WITH PROFILED APEX	1.0	JAN 2023
D 02 / 17	RIDGE WITH NON PROFILED APEX	1.0	JAN 2023
D 03 / 17	SAWTOOTH RIDGE	1.0	JAN 2023
D 04 / 17	INTERNAL GUTTER	1.0	JAN 2023
D 05 / 17	FLUSH EAVE WITH EXTERNAL GUTTER BRACKET	1.0	JAN 2023
D 06 / 17	FLUSH EAVE WITH PAN FIXED GUTTER	1.0	JAN 2023
D 07 / 17	BARGE WITH PROFILED CLADDING	1.0	JAN 2023
D 08 / 17	BARGE OVERHANG	1.0	JAN 2023
D 09 / 17	PARAPET WITH TRANSVERSE APRON	1.0	JAN 2023
D 10 / 17	TRANSVERSE APRON	1.0	JAN 2023
D 11 / 17	PARALLEL APRON	1.0	JAN 2023
D 12 / 17	PARALLEL HIDDEN GUTTER	1.0	JAN 2023
D 13 / 17	PARALLEL HIDDEN GUTTER (2 PART FLASHING)	1.0	JAN 2023
D 14 / 17	ROOF STEP	1.0	JAN 2023
D 15 / 17	TRANSLUCENT SHEETS - LONG SECTION	1.0	JAN 2023
D 16 / 17	TRANSLUCENT SHEETS - CROSS	1.0	JAN 2023
D 17 / 17	3D TRANSLUCENT SHEETS	1.0	JAN 2023

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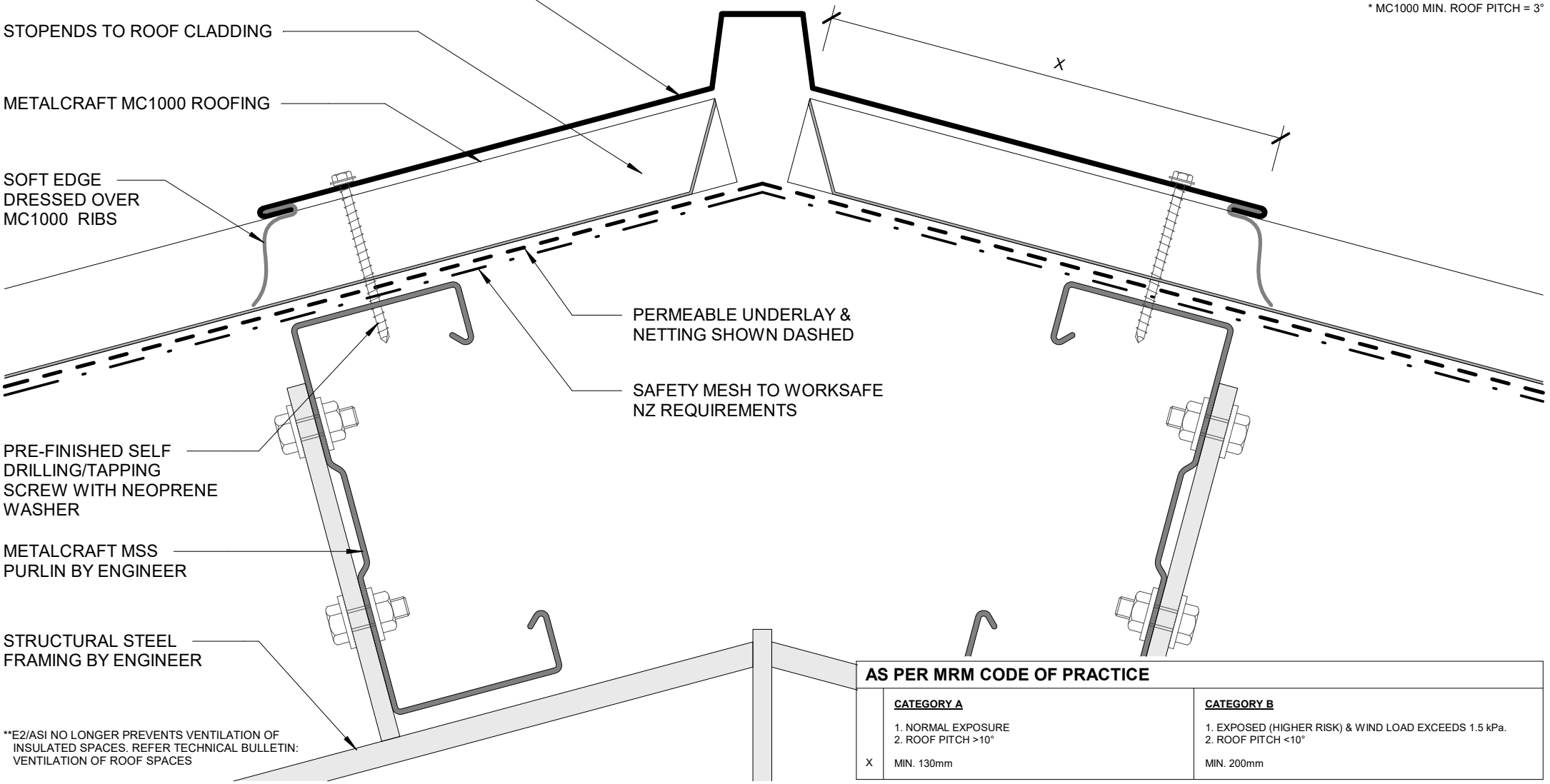
AS PER E2/ASI			
	SITUATION 1	**SITUATION 2**	**SITUATION 3**
	1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH ≥ 10°	1. VERY HIGH WIND ZONE 2.LOW, MEDIUM & HIGH WIND ZONES WHERE ROOF PITCH ≤ 10°	1.ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE.
X	MIN. 130mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)	MIN. 200mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)	MIN. 200mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)

* MC1000 MIN. ROOF PITCH = 3°



AS PER MRM CODE OF PRACTICE		
	CATEGORY A	**CATEGORY B**
	1. NORMAL EXPOSURE 2. ROOF PITCH >10°	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°
X	MIN. 130mm	MIN. 200mm

**E2/ASI NO LONGER PREVENTS VENTILATION OF INSULATED SPACES. REFER TECHNICAL BULLETIN: VENTILATION OF ROOF SPACES

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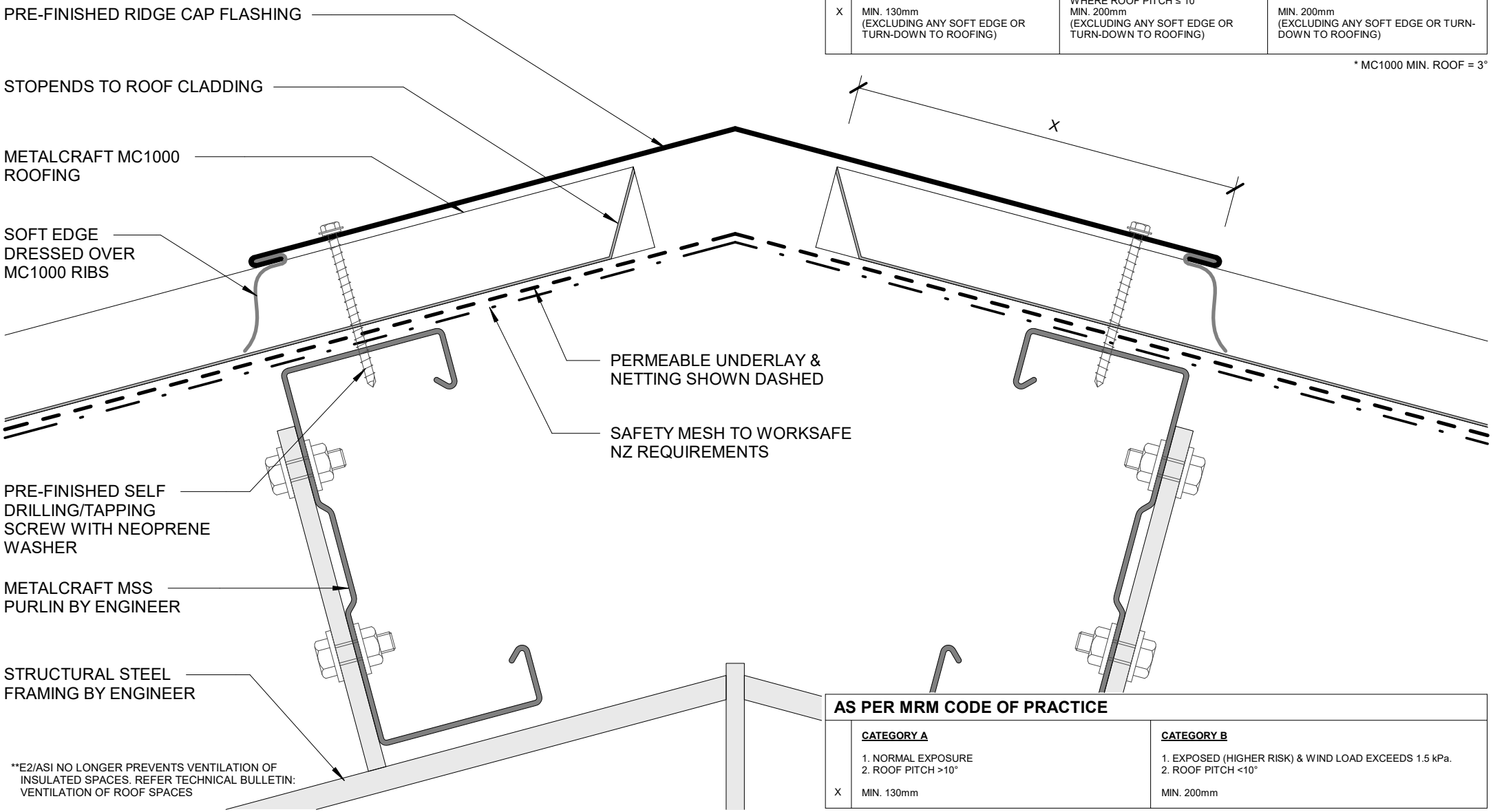
RIDGE WITH PROFILED APEX

MC 1000 Rev. 1.0 COMMERCIAL ROOFING

Reference CRMC1000 Date JAN 2023 Scale 1 : 2 Sheet D 01 / 17



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 & 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)

* MC1000 MIN. ROOF = 3°

AS PER MRM CODE OF PRACTICE

	CATEGORY A	CATEGORY B
	1. NORMAL EXPOSURE 2. ROOF PITCH >10°	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°
X	MIN. 130mm	MIN. 200mm

**E2/ASI NO LONGER PREVENTS VENTILATION OF INSULATED SPACES. REFER TECHNICAL BULLETIN: VENTILATION OF ROOF SPACES

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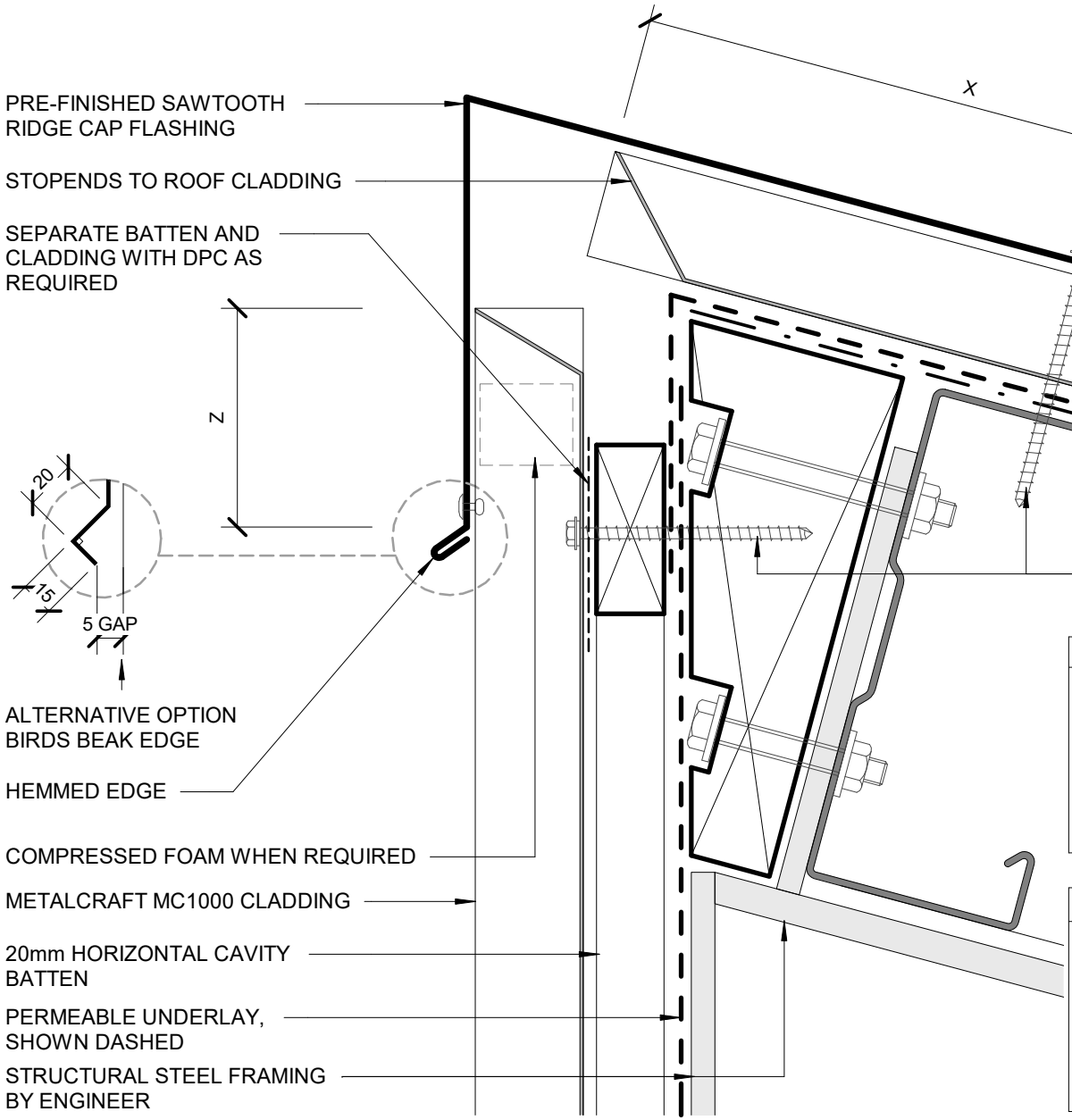
RIDGE WITH NON PROFILED APEX

MC 1000 | Rev. 1.0 | COMMERCIAL ROOFING

Reference CRMC1000 | Date JAN 2023 | Scale 1 : 2 | Sheet D 02 / 17



PRE-FINISHED SAWTOOTH RIDGE CAP FLASHING

STOPENDS TO ROOF CLADDING

SEPARATE BATTEN AND CLADDING WITH DPC AS REQUIRED

ALTERNATIVE OPTION BIRDS BEAK EDGE

HEMMED EDGE

COMPRESSED FOAM WHEN REQUIRED

METALCRAFT MC1000 CLADDING

20mm HORIZONTAL CAVITY BATTEN

PERMEABLE UNDERLAY, SHOWN DASHED

STRUCTURAL STEEL FRAMING BY ENGINEER

* MC1000 MIN. ROOF PITCH = 3°

SOFT EDGE DRESSED OVER MC1000 RIBS

METALCRAFT MC1000 ROOFING

PERMEABLE UNDERLAY & NETTING SHOWN DASHED

SAFETY MESH TO WORKSAFE NZ REQUIREMENTS

METALCRAFT MSS PURLIN BY ENGINEER

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 ≥ 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
	1. NORMAL EXPOSURE 2. ROOF PITCH >10°	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°
X	MIN. 130mm	MIN. 200mm
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)

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SAWTOOTH RIDGE

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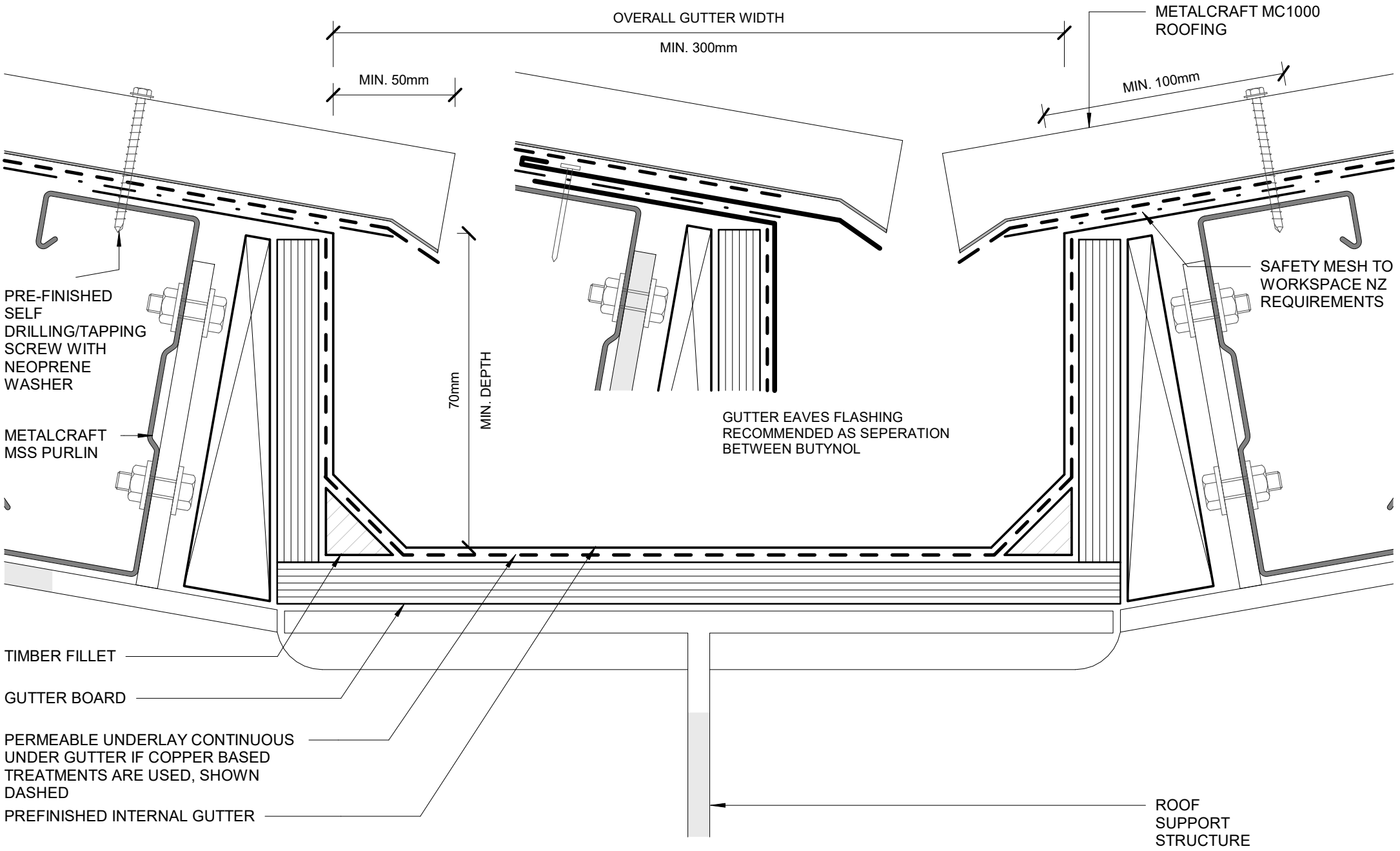
Reference CRMC1000 | Date JAN 2023 | Scale 1 : 2 | Sheet D 03 / 17



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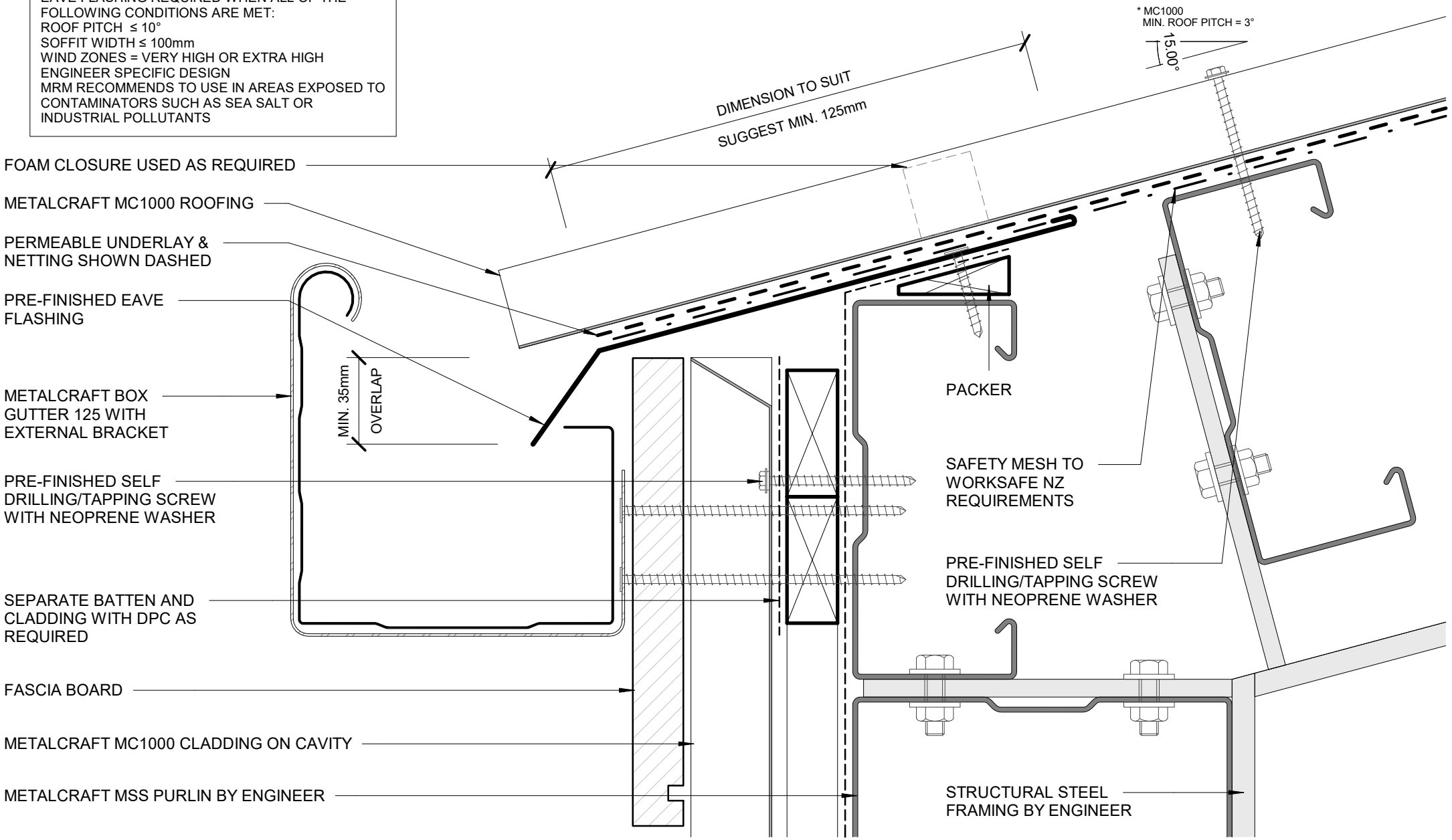
INTERNAL GUTTER

MC 1000 | Rev. 1.0 | COMMERCIAL ROOFING

Reference CRMC1000 | Date JAN 2023 | Scale 1 : 2 | Sheet D 04 / 17

EAVE FLASHING REQUIRED WHEN ALL OF THE FOLLOWING CONDITIONS ARE MET:
ROOF PITCH ≤ 10°
SOFFIT WIDTH ≤ 100mm
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



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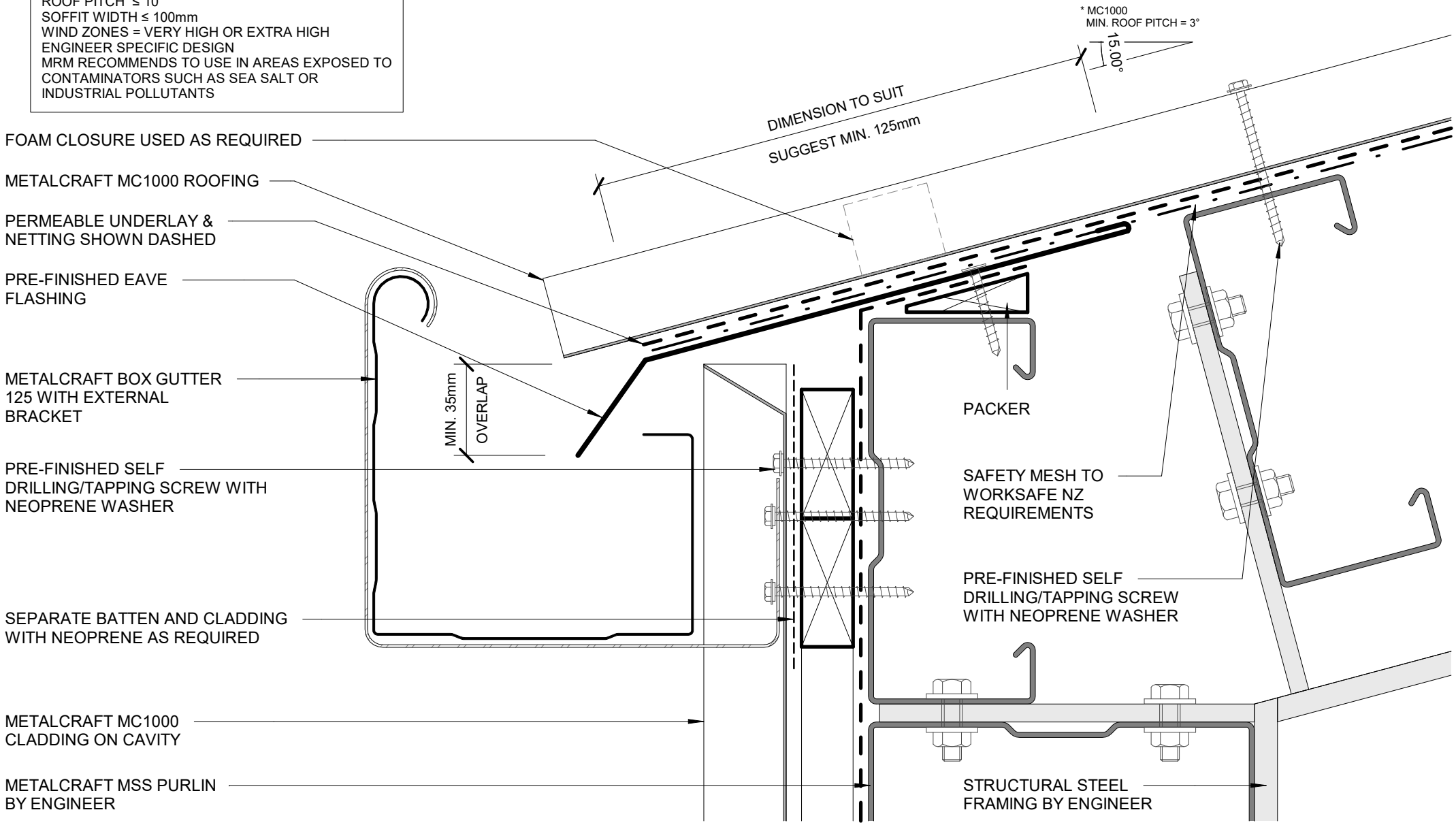
FLUSH EAVE WITH EXTERNAL GUTTER BRACKET

MC 1000 Rev. 1.0 COMMERCIAL ROOFING

Reference CRMC1000 Date JAN 2023 Scale 1 : 2 Sheet D 05 / 17

EAVE FLASHING REQUIRED WHEN ALL OF THE FOLLOWING CONDITIONS ARE MET:
ROOF PITCH ≤ 10°
SOFFIT WIDTH ≤ 100mm
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



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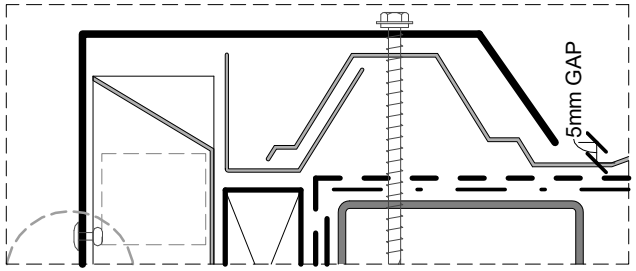
FLUSH EAVE WITH PAN FIXED GUTTER

MC 1000 | Rev. 1.0 | COMMERCIAL ROOFING

Reference CRMC1000 | Date JAN 2023 | Scale 1 : 2 | Sheet D 06 / 17



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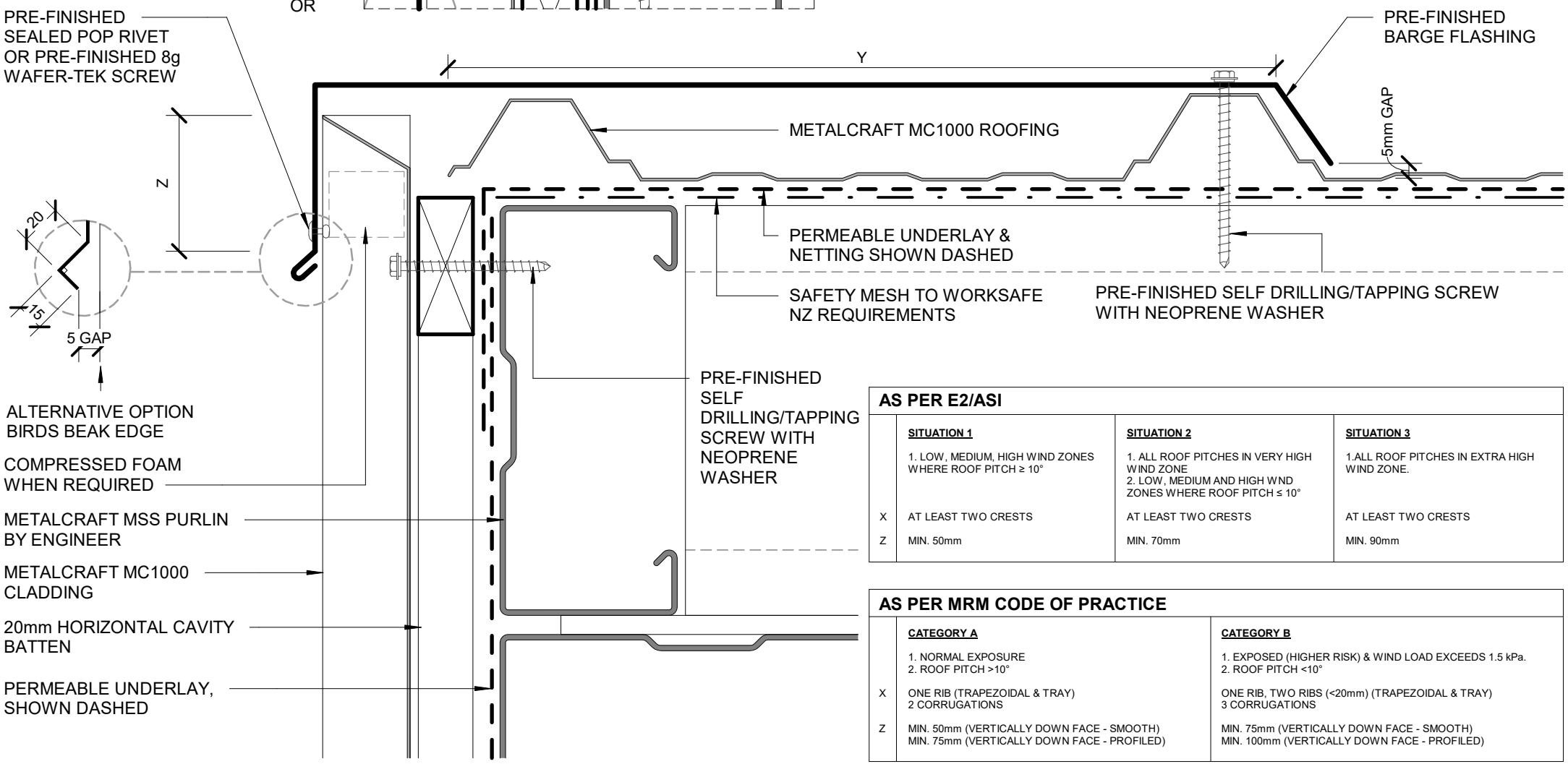

AS PER E2/ASI

	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
	1. NORMAL EXPOSURE 2. ROOF PITCH >10°	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°
X	ONE RIB (TRAPEZOIDAL & TRAY) 2 CORRUGATIONS	ONE RIB, TWO RIBS (<20mm) (TRAPEZOIDAL & TRAY) 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)

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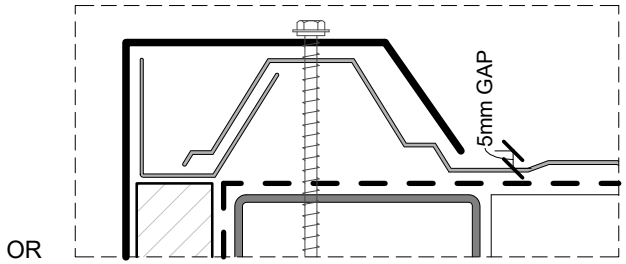
BARGE WITH PROFILED CLADDING

MC 1000 | Rev. 1.0 | COMMERCIAL ROOFING

Reference CRMC1000 | Date JAN 2023 | Scale 1 : 2 | Sheet D 07 / 17



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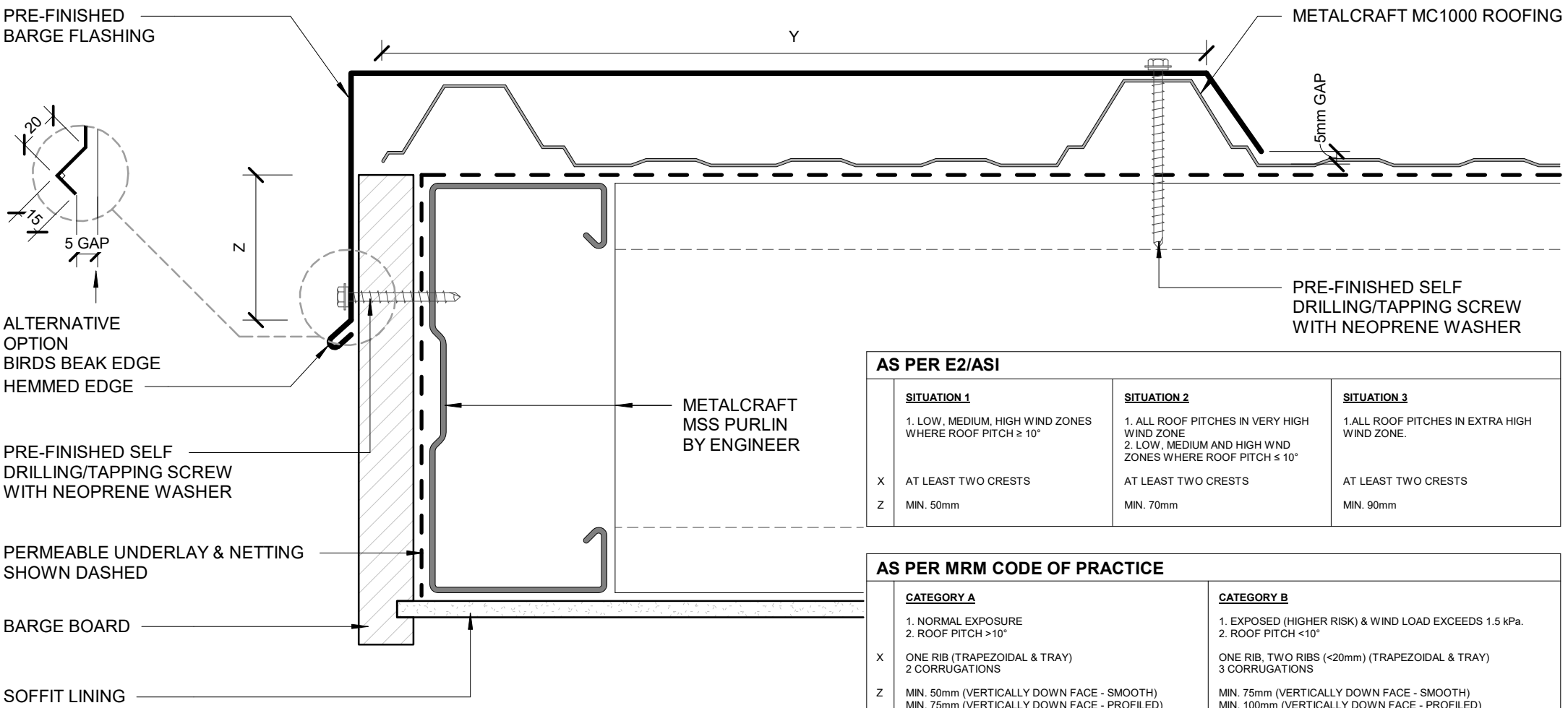

AS PER E2/ASI

	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
	1. NORMAL EXPOSURE 2. ROOF PITCH >10°	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°
X	ONE RIB (TRAPEZOIDAL & TRAY) 2 CORRUGATIONS	ONE RIB, TWO RIBS (<20mm) (TRAPEZOIDAL & TRAY) 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)

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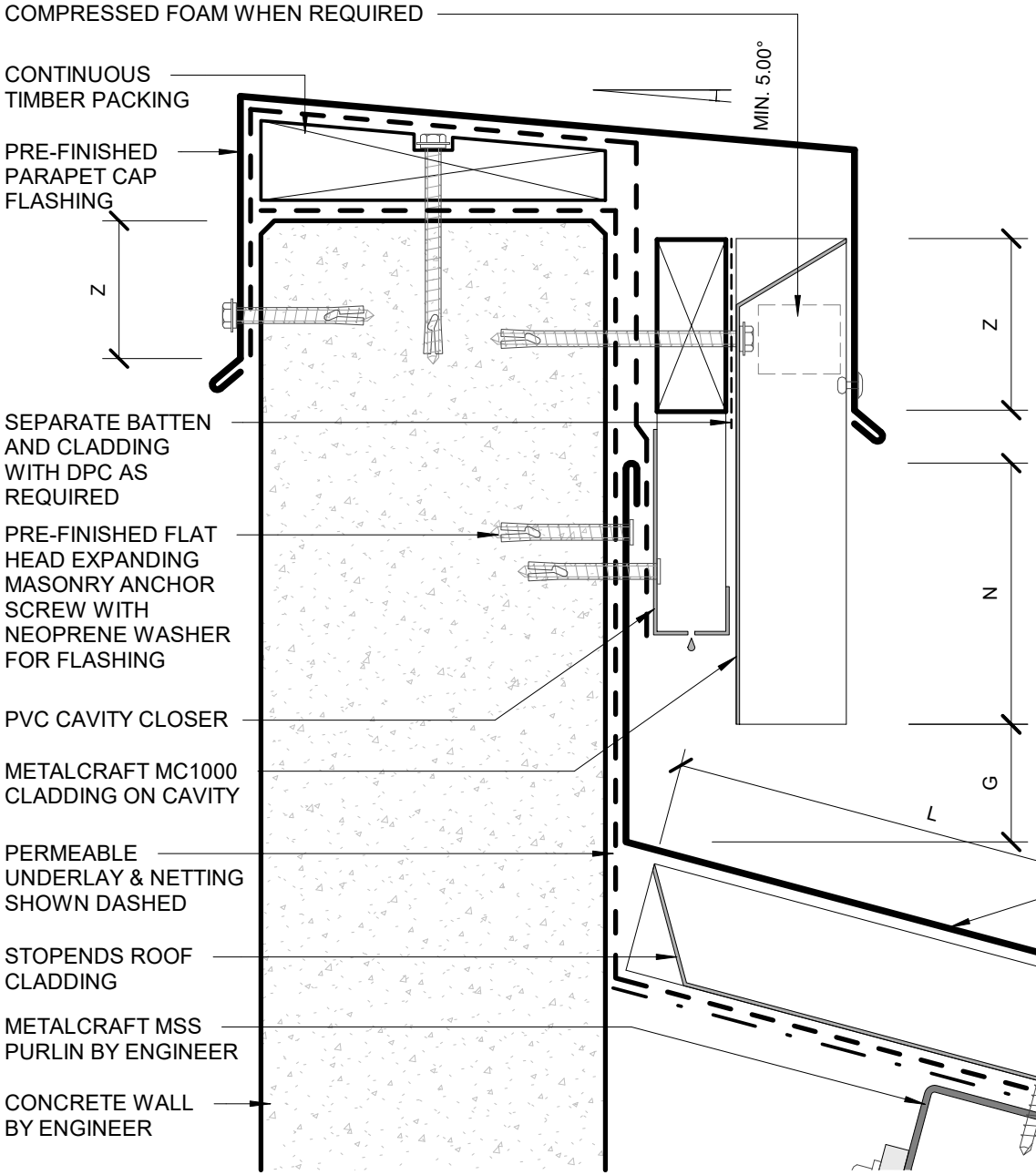
BARGE OVERHANG

MC 1000 | Rev. 1.0 | COMMERCIAL ROOFING

Reference CRMC1000 | Date JAN 2023 | Scale 1 : 2 | Sheet D 08 / 17

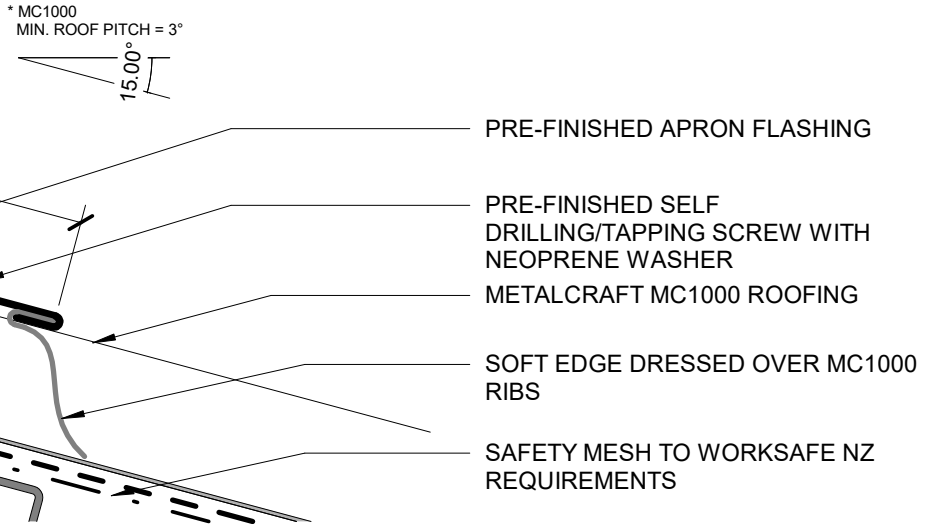


AS PER E2/ASII

	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, & HIGH WIND ZONES WHERE ROOF PITCH ≤ 10°	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

AS PER MRM CODE OF PRACTICE

	CATEGORY A	CATEGORY B
	1. NORMAL EXPOSURE 2. ROOF PITCH >10°	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°
G	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)
L	MIN. 150mm	MIN. 200mm
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)



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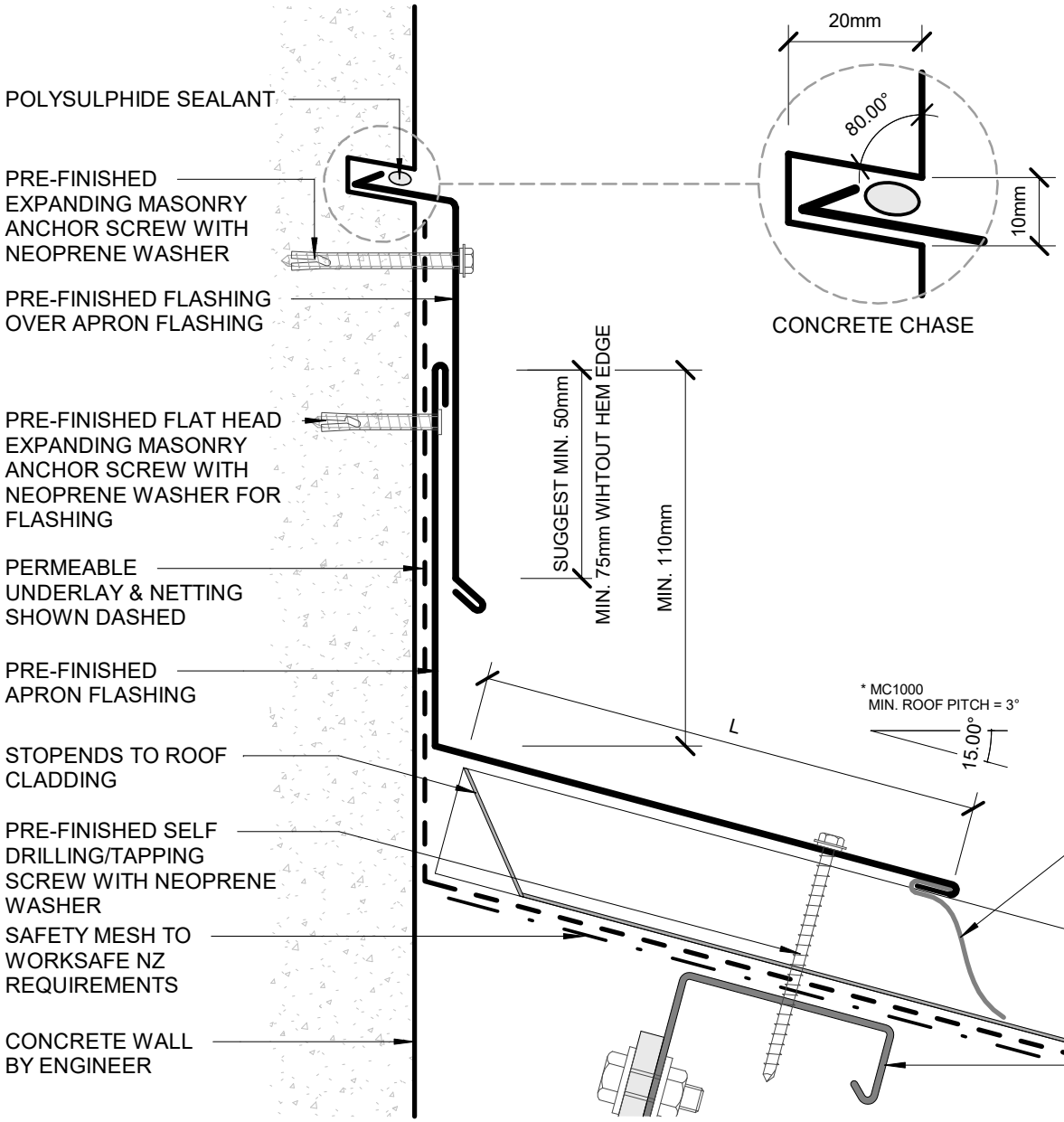
PARAPET WITH TRANSVERSE APRON

MC 1000 | Rev. 1.0 | COMMERCIAL ROOFING

Reference CRMC1000 | Date JAN 2023 | Scale 1 : 2 | Sheet D 09 / 17



AS PER E2/ASI

	SITUATION 1	SITUATION 2	SITUATION 3
L	1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH ≥ 10° MIN. 130mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)	1. VERY HIGH WIND ZONE 2. LOW, MEDIUM, AND HIGH WIND ZONES WHERE ROOF PITCH ≤ 10° MIN. 200mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)	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	CATEGORY B
L	1. NORMAL EXPOSURE 2. ROOF PITCH >10° MIN. 150mm	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10° MIN. 200mm

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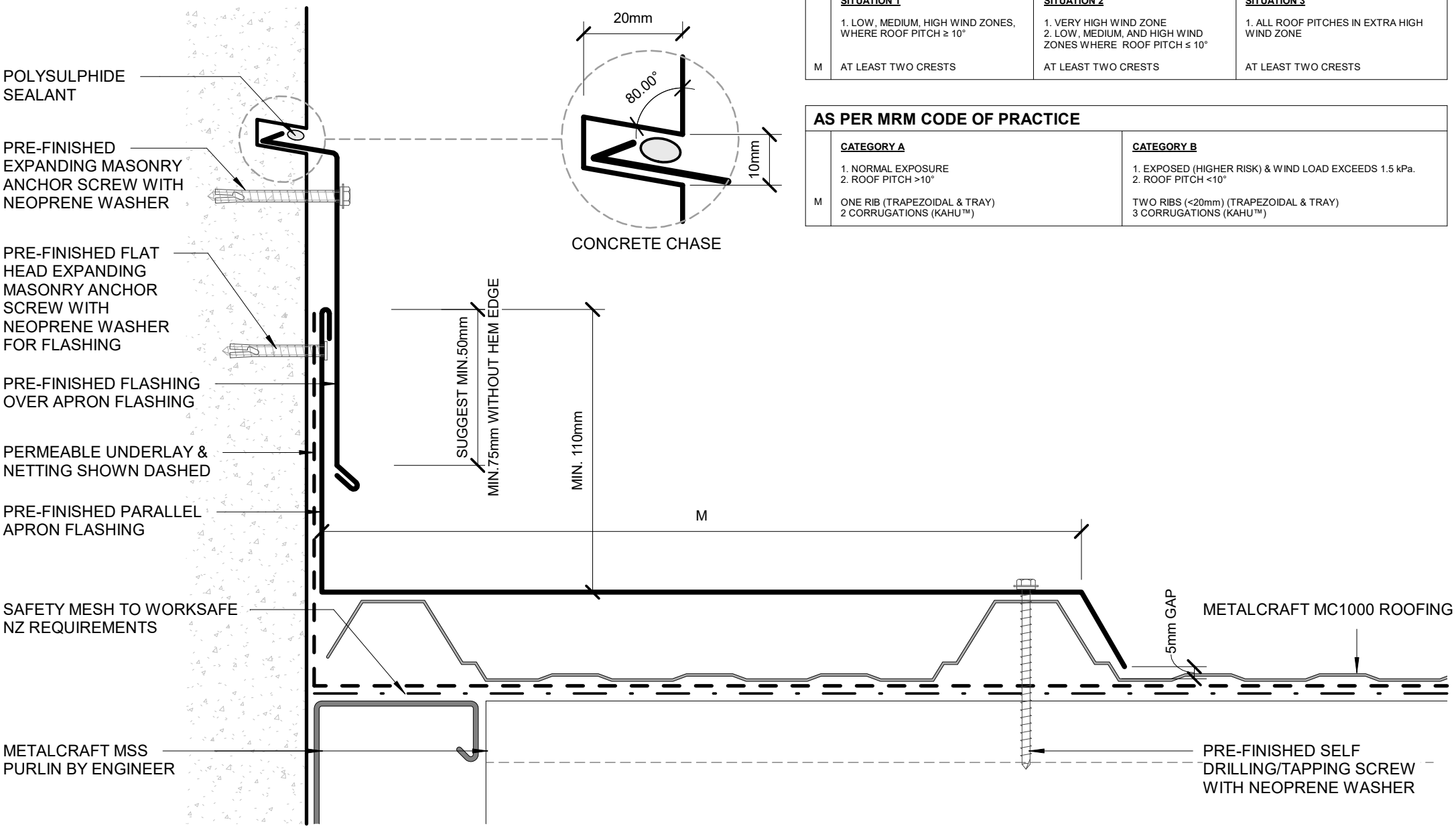
TRANSVERSE APRON

MC 1000 | Rev. 1.0 | COMMERCIAL ROOFING

Reference CRMC1000 | Date JAN 2023 | Scale 1 : 2 | Sheet D 10 / 17



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
M	AT LEAST TWO CRESTS	AT LEAST TWO CRESTS	AT LEAST TWO CRESTS

AS PER MRM CODE OF PRACTICE

	CATEGORY A	CATEGORY B
	1. NORMAL EXPOSURE 2. ROOF PITCH >10°	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°
M	ONE RIB (TRAPEZOIDAL & TRAY) 2 CORRUGATIONS (KAHU™)	TWO RIBS (<20mm) (TRAPEZOIDAL & TRAY) 3 CORRUGATIONS (KAHU™)

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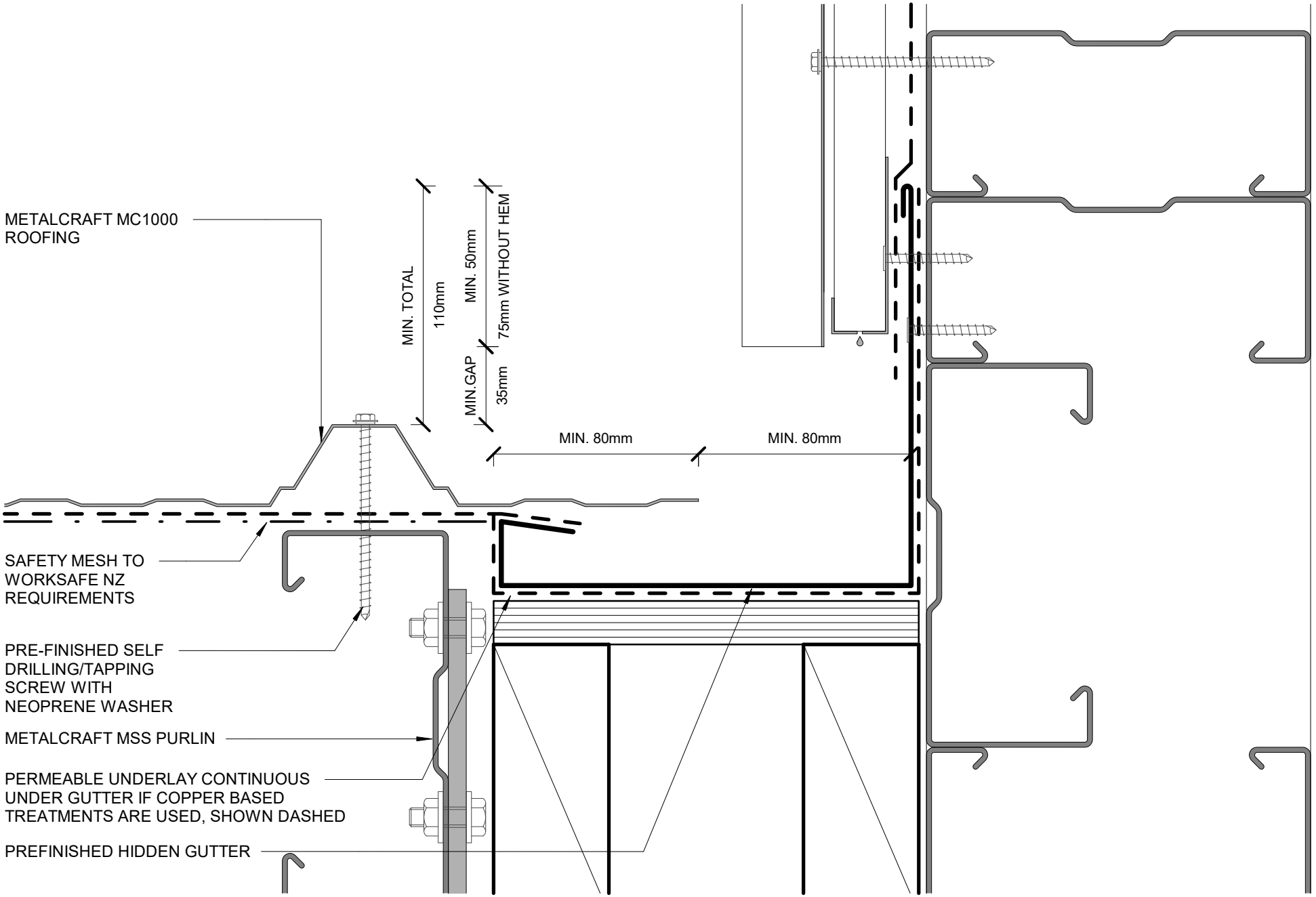
PARALLEL APRON

MC 1000 | Rev. 1.0 | COMMERCIAL ROOFING

Reference CRMC1000 | Date JAN 2023 | Scale 1 : 2 | Sheet D 11 / 17



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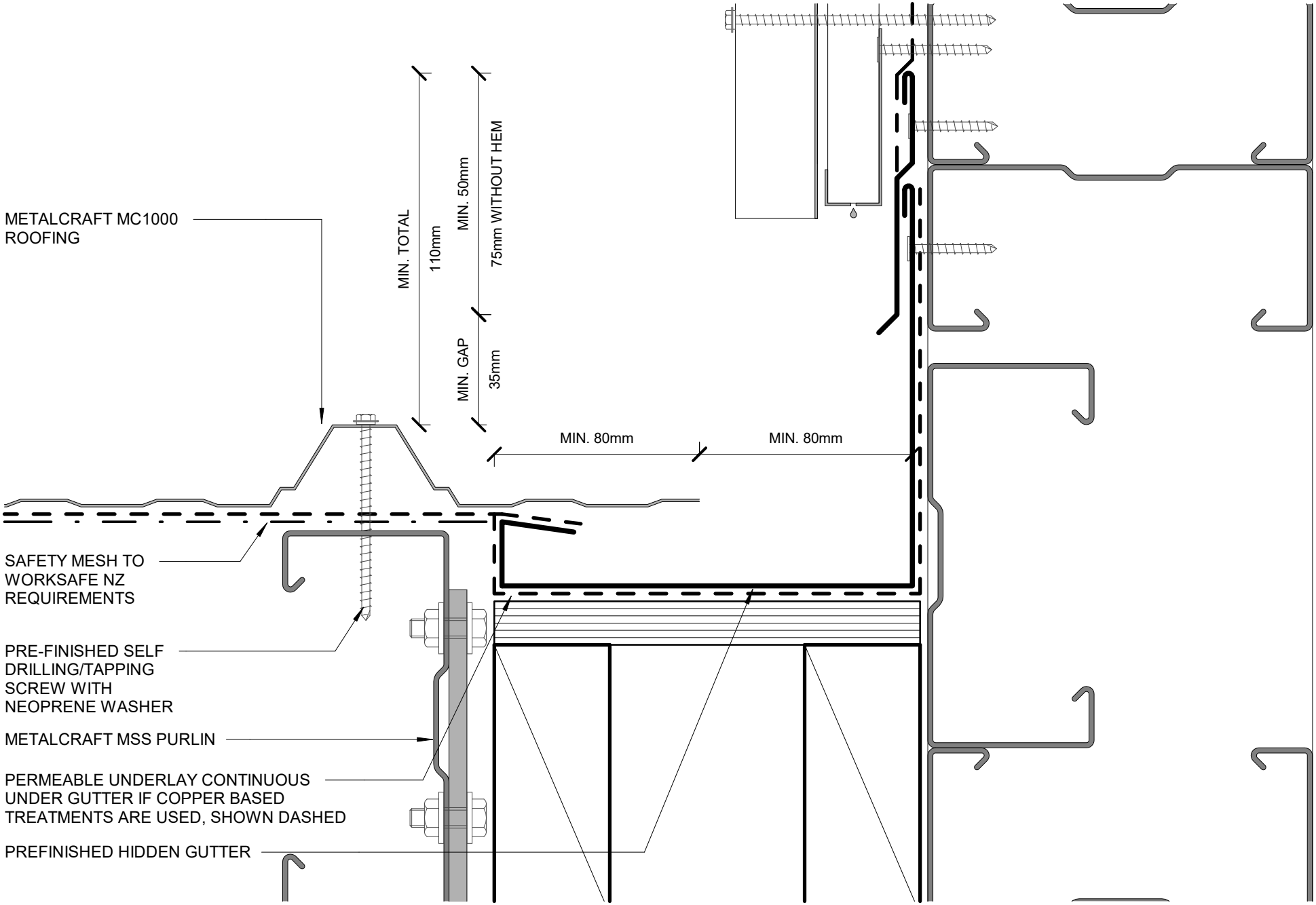
PARALLEL HIDDEN GUTTER

MC 1000 Rev. 1.0 COMMERCIAL ROOFING

Reference CRMC1000 Date JAN 2023 Scale 1 : 2 Sheet D 12 / 17



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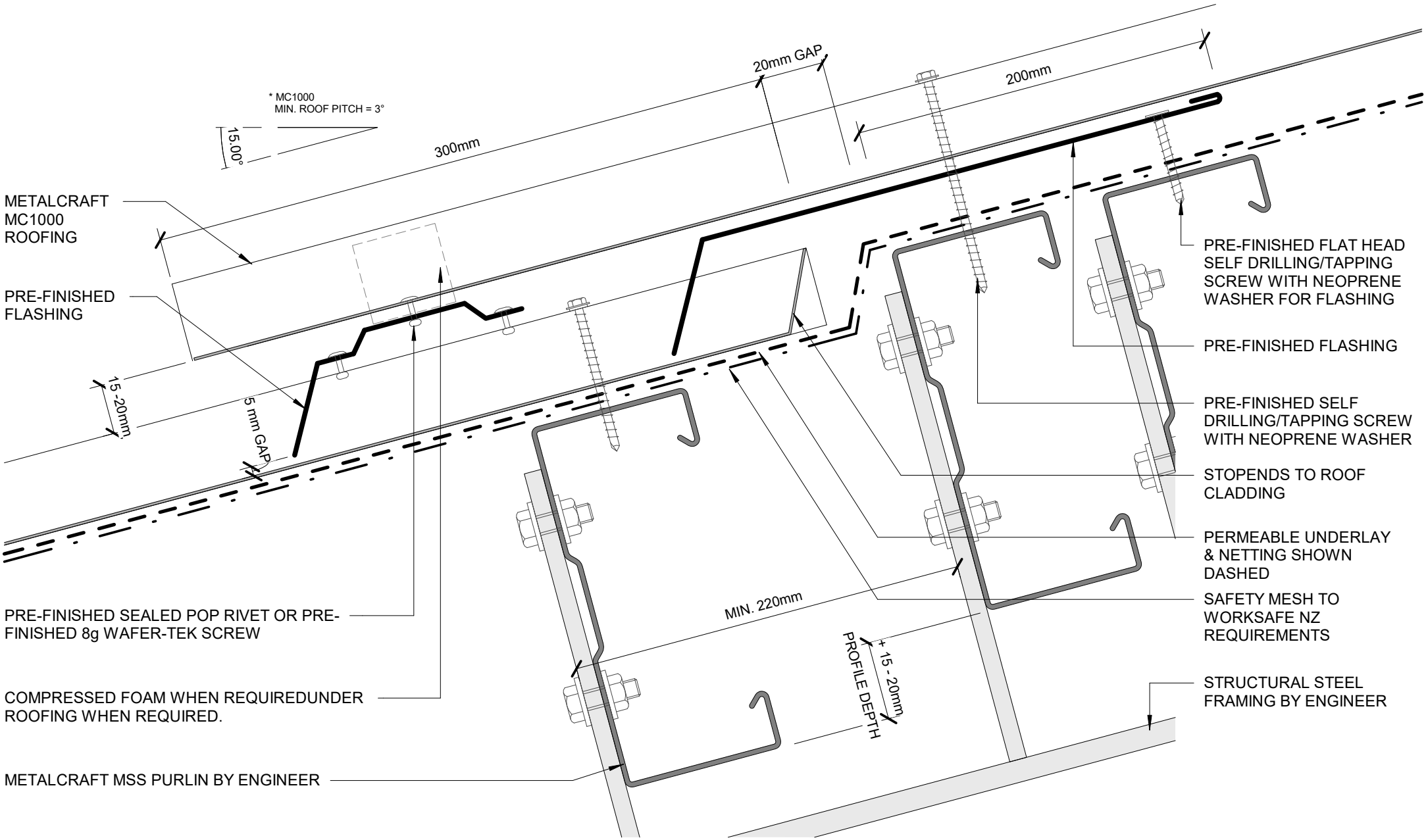
DISCLAIMER:
All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 3.0 / 2022, E2 and all other relevant building codes
Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility 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.

PARALLEL HIDDEN GUTTER (2 PART FLASHING)

MC 1000 Rev. 1.0 COMMERCIAL ROOFING

Reference CRMC1000 Date JAN 2023 Scale 1 : 2 Sheet D 13 / 17



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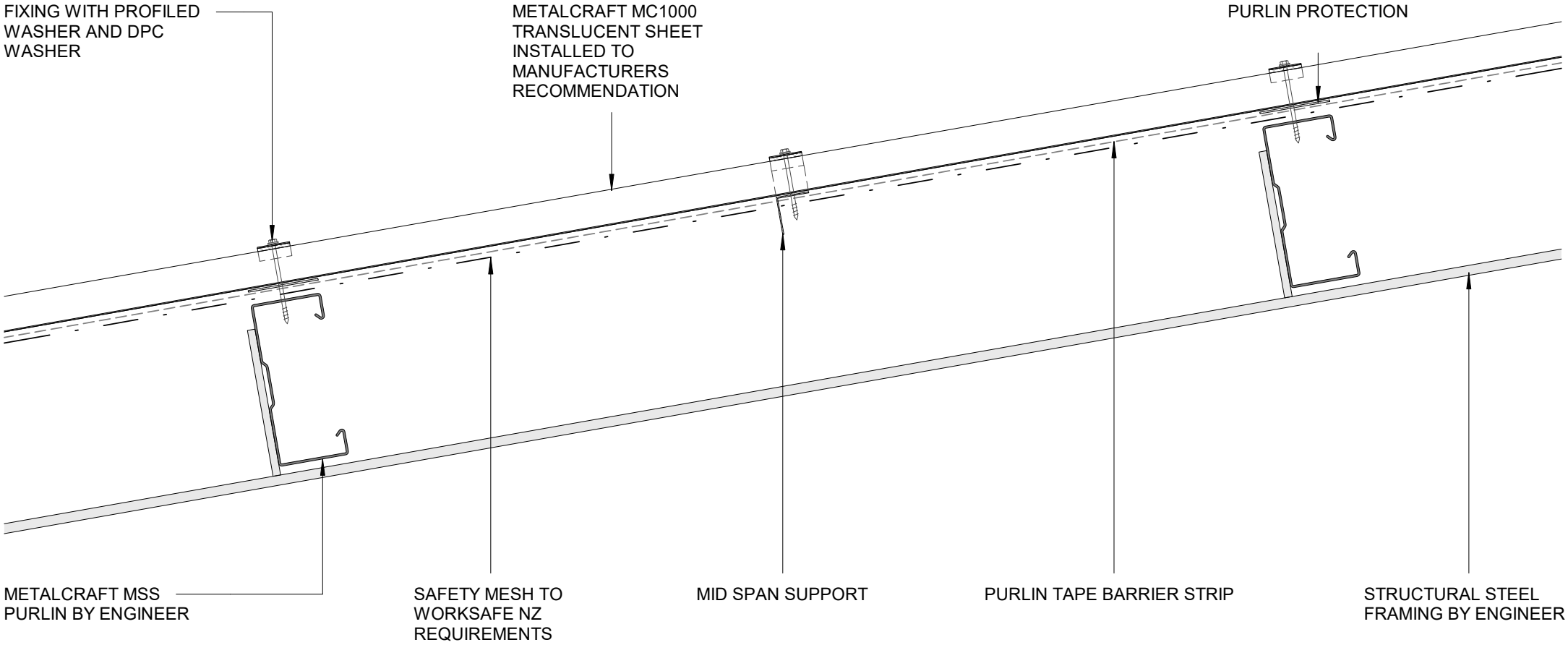
ROOF STEP

MC 1000 | Rev. 1.0 | COMMERCIAL ROOFING

Reference CRMC1000 | Date JAN 2023 | Scale 1 : 2 | Sheet **D 14 / 17**



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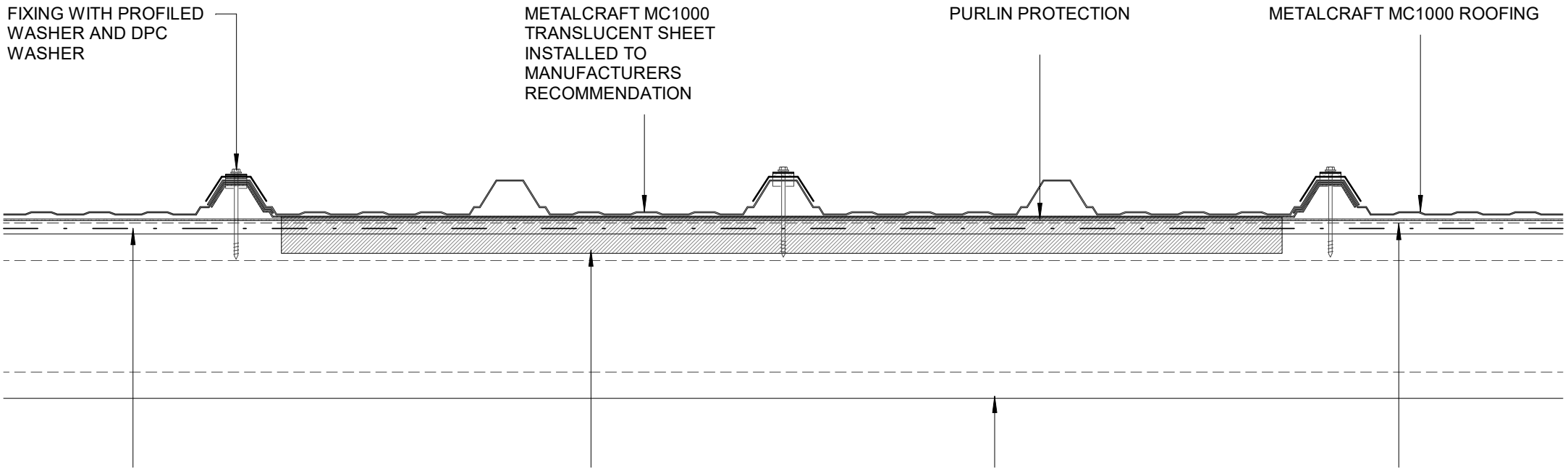
TRANSLUCENT SHEETS - LONG SECTION

MC 1000 Rev. 1.0 COMMERCIAL ROOFING

Reference CRMC1000 Date JAN 2023 Scale 1 : 5 Sheet D 15 / 17



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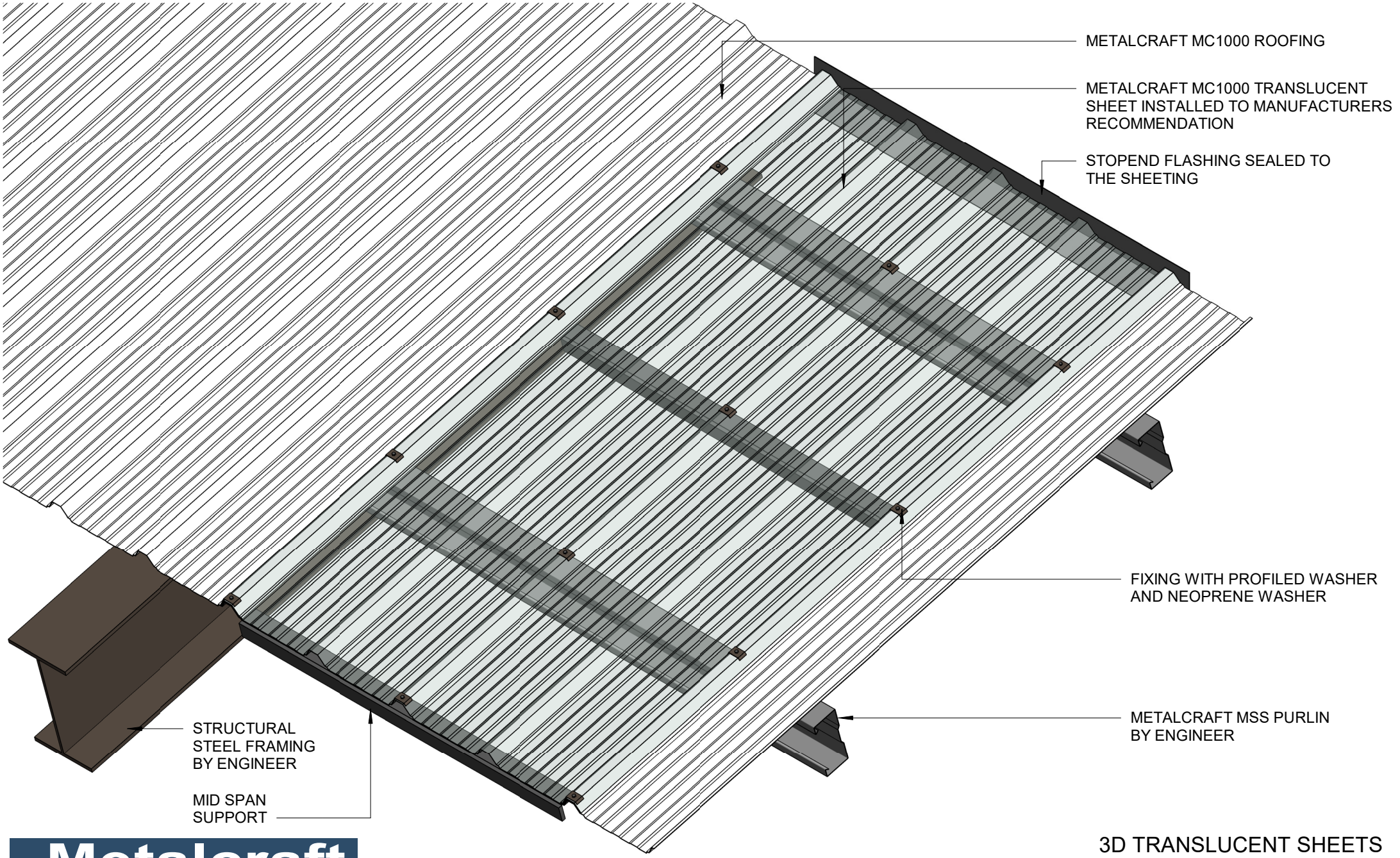
TRANSLUCENT SHEETS - CROSS

MC 1000 | Rev. 1.0 | COMMERCIAL ROOFING

Reference CRMC1000 | Date JAN 2023 | Scale 1 : 5 | Sheet D 16 / 17



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3D TRANSLUCENT SHEETS

MC 1000 Rev. 1.0 COMMERCIAL ROOFING

Reference CRMC1000 Date JAN 2023 Scale