

MC770

COMMERCIAL ROOFING

DETAIL LIST

		<u>Revision</u>	<u>Date</u>
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 PAN FIXED GUTTER	1.0	JAN 2023
D 06 / 17	FLUSH EAVE WITH EXTERNAL GUTTER BRACKET	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

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 MC770 ROOFING

SOFT EDGE OR NOTCHED DRESSED OVER MC770 RIBS

PERMEABLE UNDERLAY & NETTING SHOWN DASHED

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

* MC770 MIN. ROOF PITCH = 3°

AS PER MRM CODE OF PRACTICE

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

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MC770

Rev. 1.0

RIDGE WITH PROFILED APEX
COMMERCIAL ROOFING

Reference CRMC770

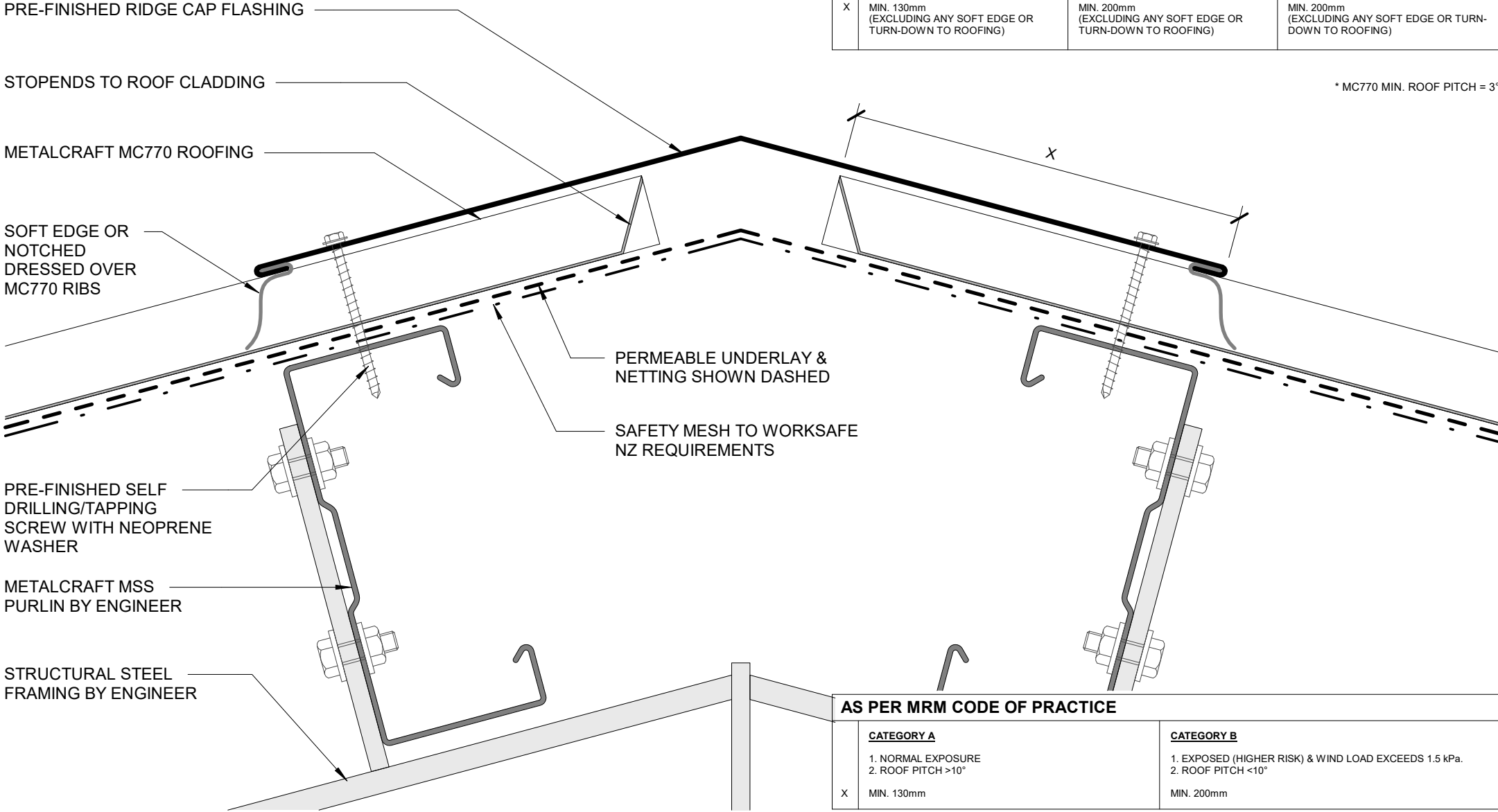
Date JAN 2023

Scale 1 : 2

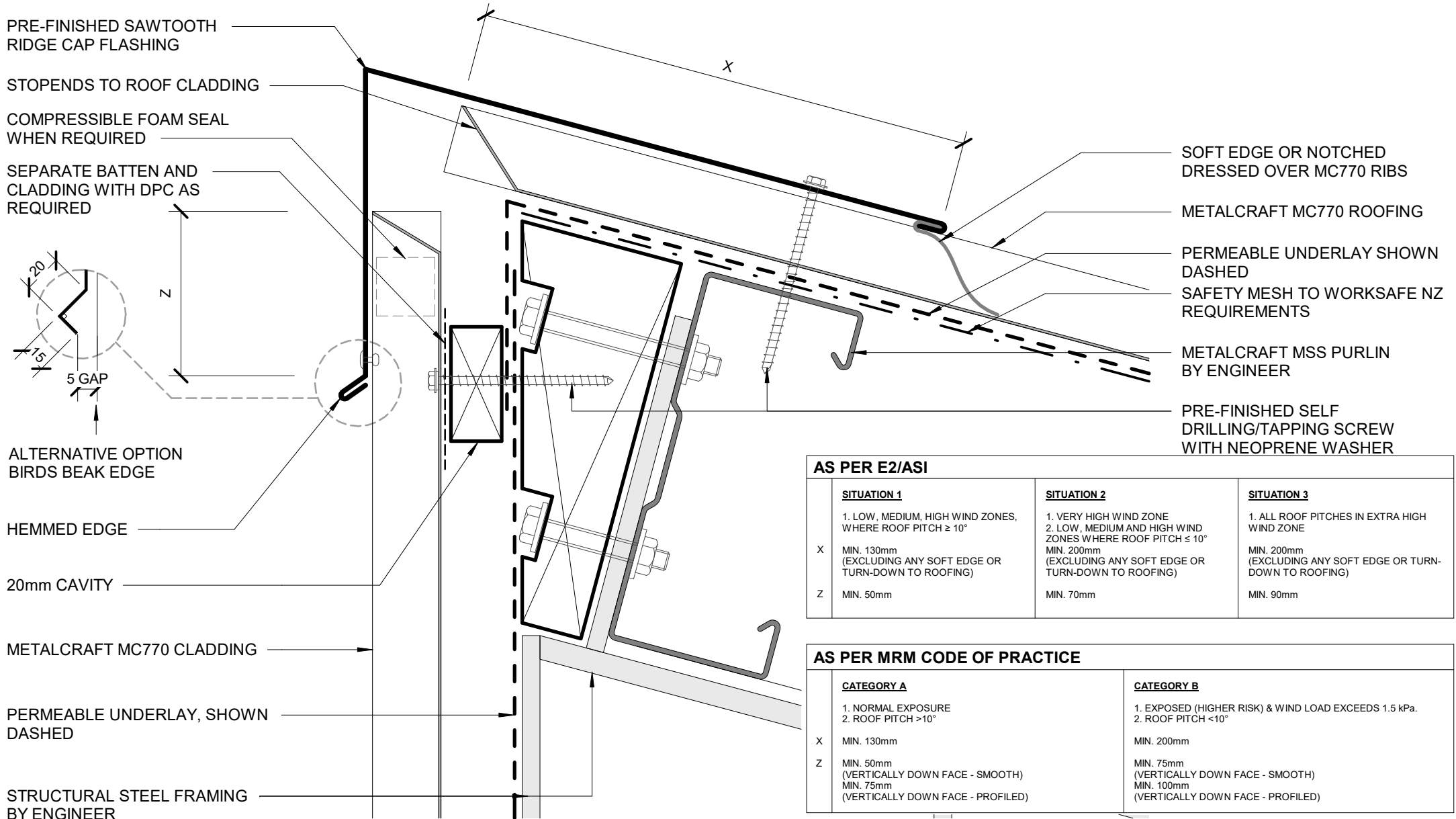
Sheet **D 01 / 17**

AS PER E2/ASI			
	SITUATION 1 1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH $\geq 10^\circ$	SITUATION 2 1. VERY HIGH WIND ZONE 2. LOW, MEDIUM & HIGH WIND ZONES WHERE ROOF PITCH $\leq 10^\circ$	SITUATION 3 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)

* MC770 MIN. ROOF PITCH = 3°

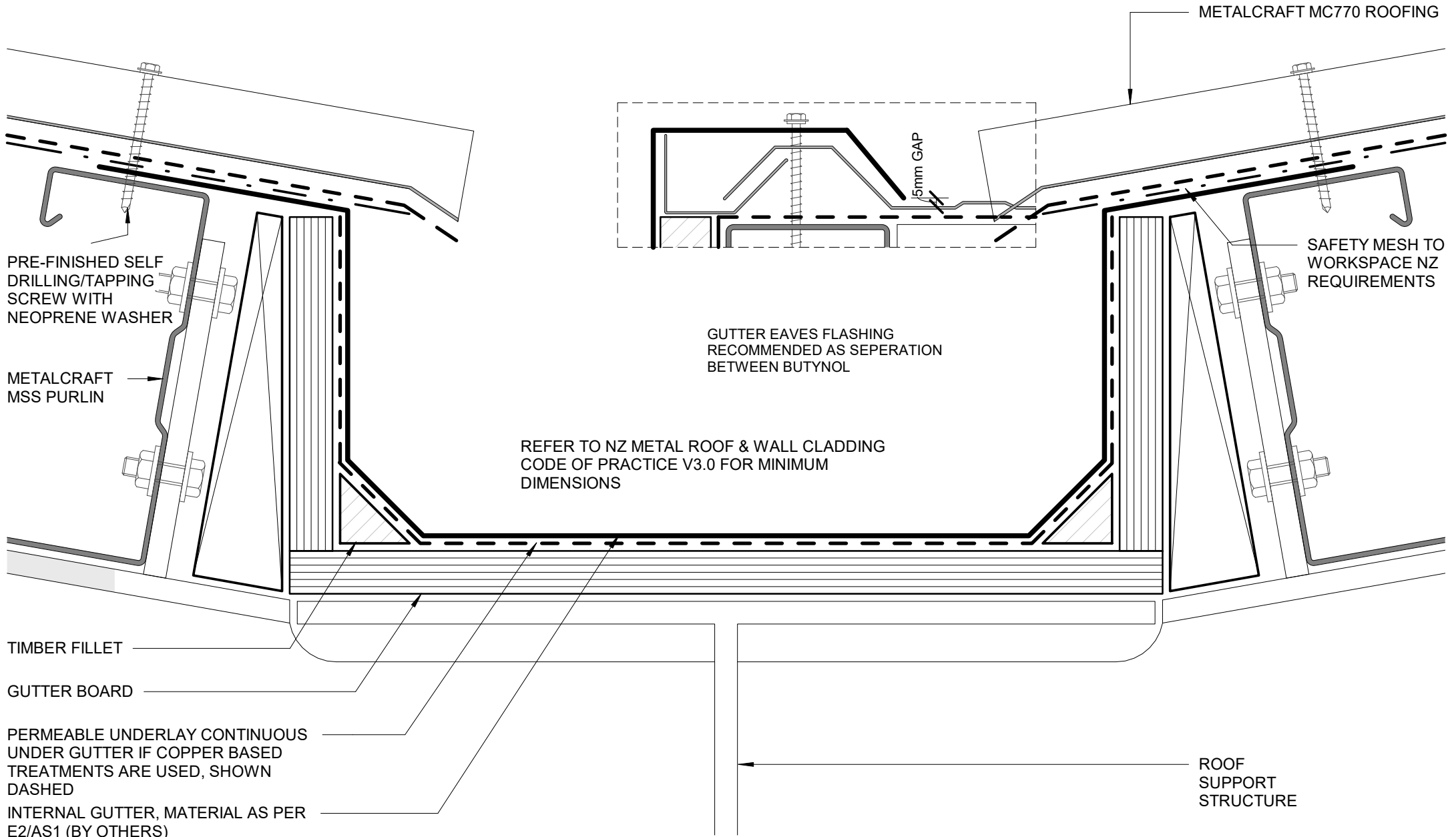


AS PER MRM CODE OF PRACTICE	
CATEGORY A 1. NORMAL EXPOSURE 2. ROOF PITCH $>10^\circ$	CATEGORY B 1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH $<10^\circ$
X MIN. 130mm	MIN. 200mm



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)



PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH NEOPRENE WASHER

METALCRAFT MSS PURLIN

TIMBER FILLET

GUTTER BOARD

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

INTERNAL GUTTER, MATERIAL AS PER E2/AS1 (BY OTHERS)

GUTTER EAVES FLASHING RECOMMENDED AS SEPERATION BETWEEN BUTYNOL

REFER TO NZ METAL ROOF & WALL CLADDING CODE OF PRACTICE V3.0 FOR MINIMUM DIMENSIONS

METALCRAFT MC770 ROOFING

SAFETY MESH TO WORKSPACE NZ REQUIREMENTS

ROOF SUPPORT STRUCTURE

Metalcraft
Roofing

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Reference CRMC770

Date JAN 2023

Scale 1 : 2

INTERNAL GUTTER
COMMERCIAL ROOFING

Sheet **D 04 / 17**

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

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

* MC770
 MIN. ROOF PITCH = 3°
 15.00°

DIMENSION TO SUIT
 SUGGEST MIN. 125mm

FOAM CLOSURE USED AS REQUIRED

PERMEABLE UNDERLAY & NETTING SHOWN DASHED

METALCRAFT MC770 ROOFING

PRE-FINISHED EAVE FLASHING

METALCRAFT BOX GUTTER 125 WITH EXTERNAL BRACKET

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH NEOPRENE WASHER

SEPARATE BATTEN AND CLADDING WITH DPC AS REQUIRED

METALCRAFT MC770 CLADDING ON CAVITY

METALCRAFT MSS PURLIN BY ENGINEER

PACKER

SAFETY MESH TO WORKSAFE NZ REQUIREMENTS

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH NEOPRENE WASHER

STRUCTURAL STEEL FRAMING BY ENGINEER

MIN. 35mm OVERLAP

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

$<10^\circ$ UN-BAFFLED BY SPOUTING = 70mm

10-35° = 50mm

$>35^\circ$ = 40mm

DIMENSION TO SUIT
 SUGGEST MIN. 125mm

* MC770
 MIN. ROOF PITCH = 3°

15.00°

FOAM CLOSURE USED AS REQUIRED

PERMEABLE UNDERLAY & NETTING SHOWN DASHED

METALCRAFT MC770 ROOFING

PRE-FINISHED EAVE FLASHING

METALCRAFT BOX GUTTER 125 WITH EXTERNAL BRACKET

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH NEOPRENE WASHER

SEPARATE BATTEN AND CLADDING WITH DPC AS REQUIRED

FASCIA BOARD

METALCRAFT MC770 CLADDING ON CAVITY

SEPARATE WALL CLADDING AND FASCIA WITH DPC AS REQUIRED

METALCRAFT MSS PURLIN BY ENGINEER

MIN. 35mm
 OVERLAP

PACKER

SAFETY MESH TO WORKSAFE NZ REQUIREMENTS

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH NEOPRENE WASHER

STRUCTURAL STEEL FRAMING BY ENGINEER

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FLUSH EAVE WITH EXTERNAL GUTTER BRACKET

MC770

Rev. 1.0

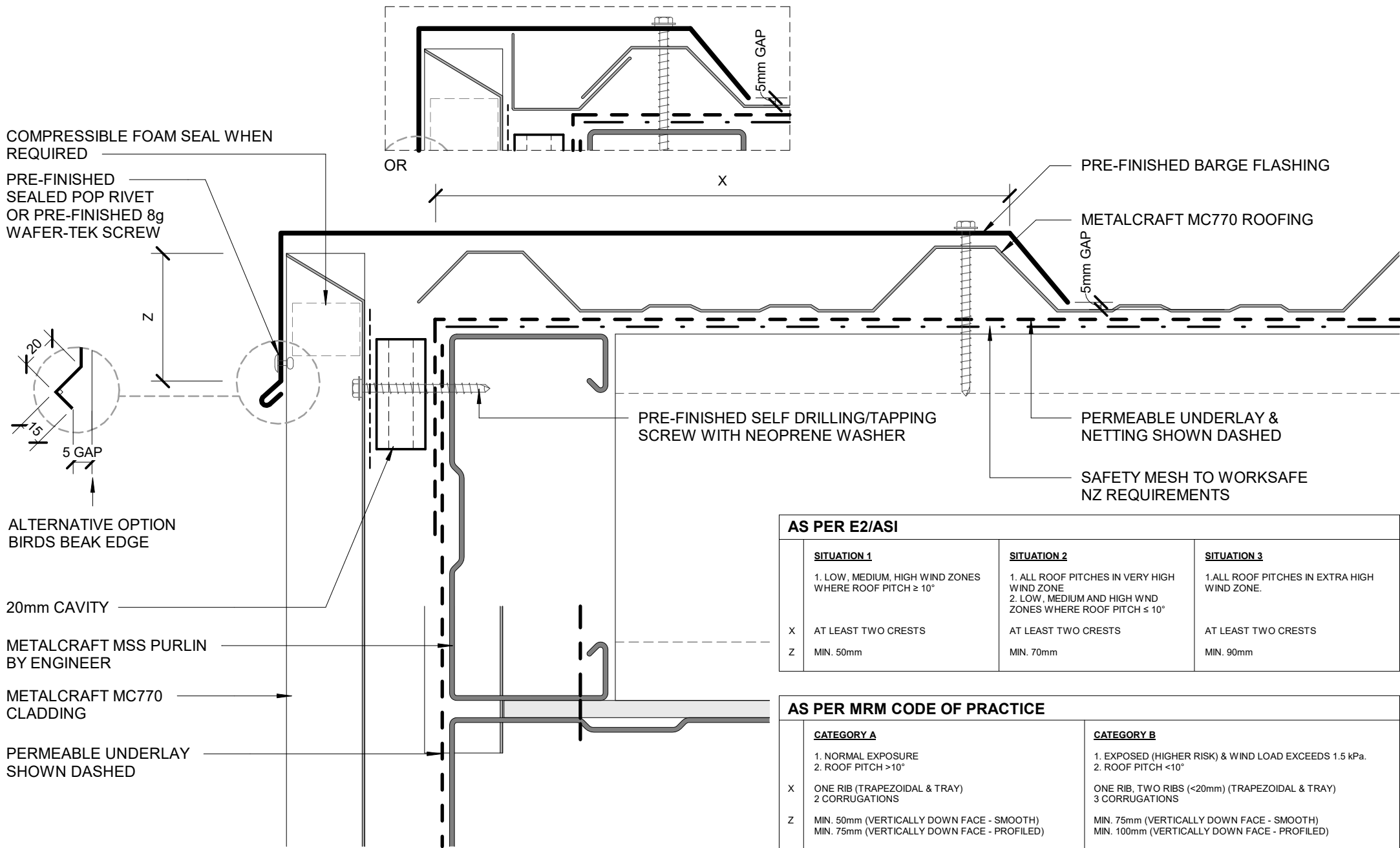
COMMERCIAL ROOFING

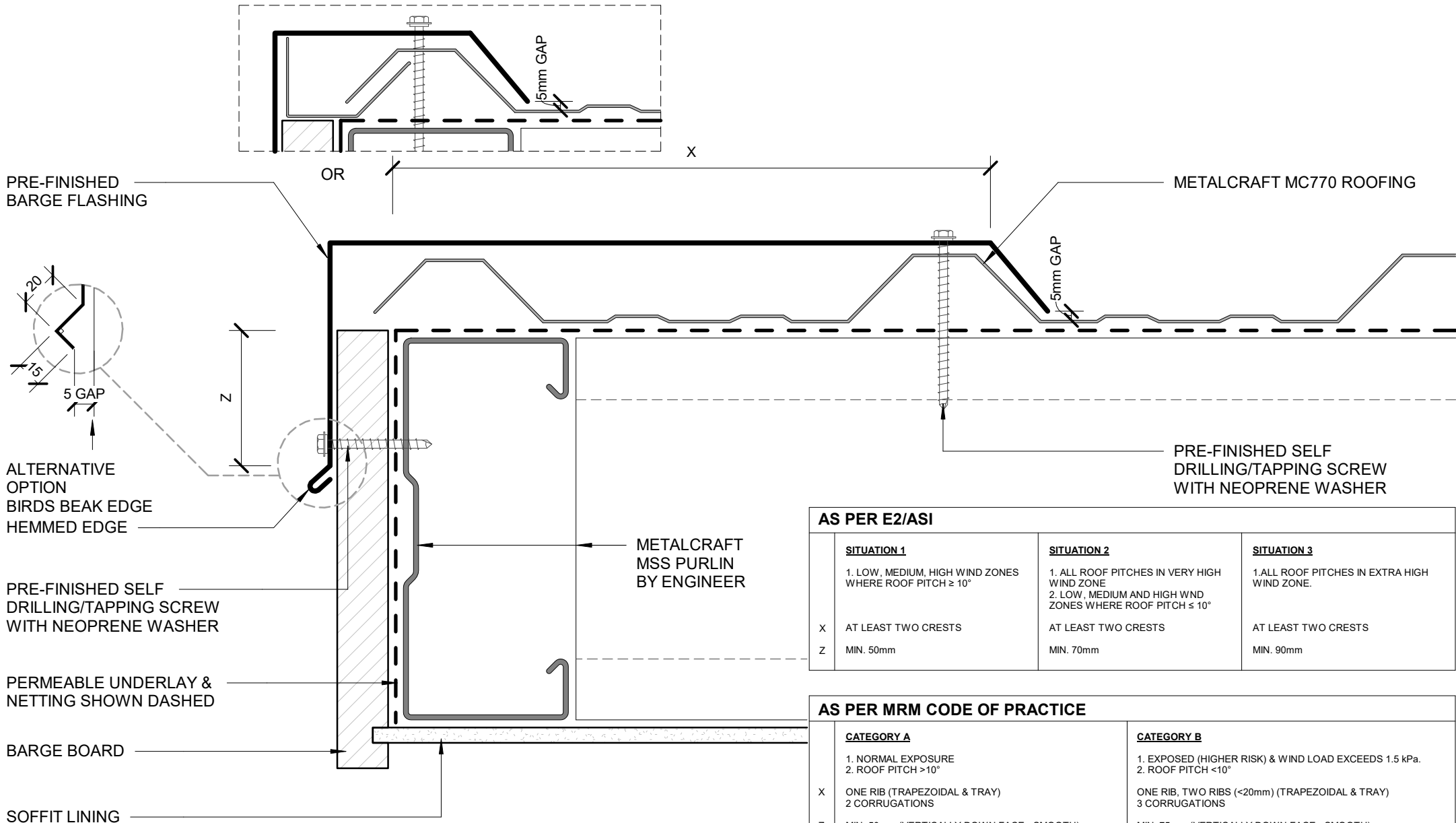
Reference CRMC770

Date JAN 2023

Scale 1 : 2

Sheet **D 06 / 17**





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

COMPRESSIBLE FOAM SEAL WHEN REQUIRED

CONTINUOUS
TIMBER PACKING

PRE-FINISHED
PARAPET CAP
FLASHING

Z

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 MC770
CLADDING ON CAVITY

PERMEABLE
UNDERLAY &
NETTING SHOWN
DASHED

STOPENDS ROOF
CLADDING

METALCRAFT MSS
PURLIN BY ENGINEER

CONCRETE WALL
BY ENGINEER

MIN. 5.00°

Z

N

G

L

* MC770
MIN. ROOF PITCH = 3°

15.00°

PRE-FINISHED APRON FLASHING

PRE-FINISHED SELF
DRILLING/TAPPING SCREW WITH
NEOPRENE WASHER

METALCRAFT MC770 ROOFING

SOFT EDGE OR NOTCHED DRESSED
OVER MC770 RIBS

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 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

AS PER MRM CODE OF PRACTICE

	CATEGORY A	CATEGORY B
	1. NORMAL EXPOSURE 2. ROOF PITCH $> 10^\circ$	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH $< 10^\circ$
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)

PARAPET WITH TRANSVERSE APRON

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MC770

Rev. 1.0

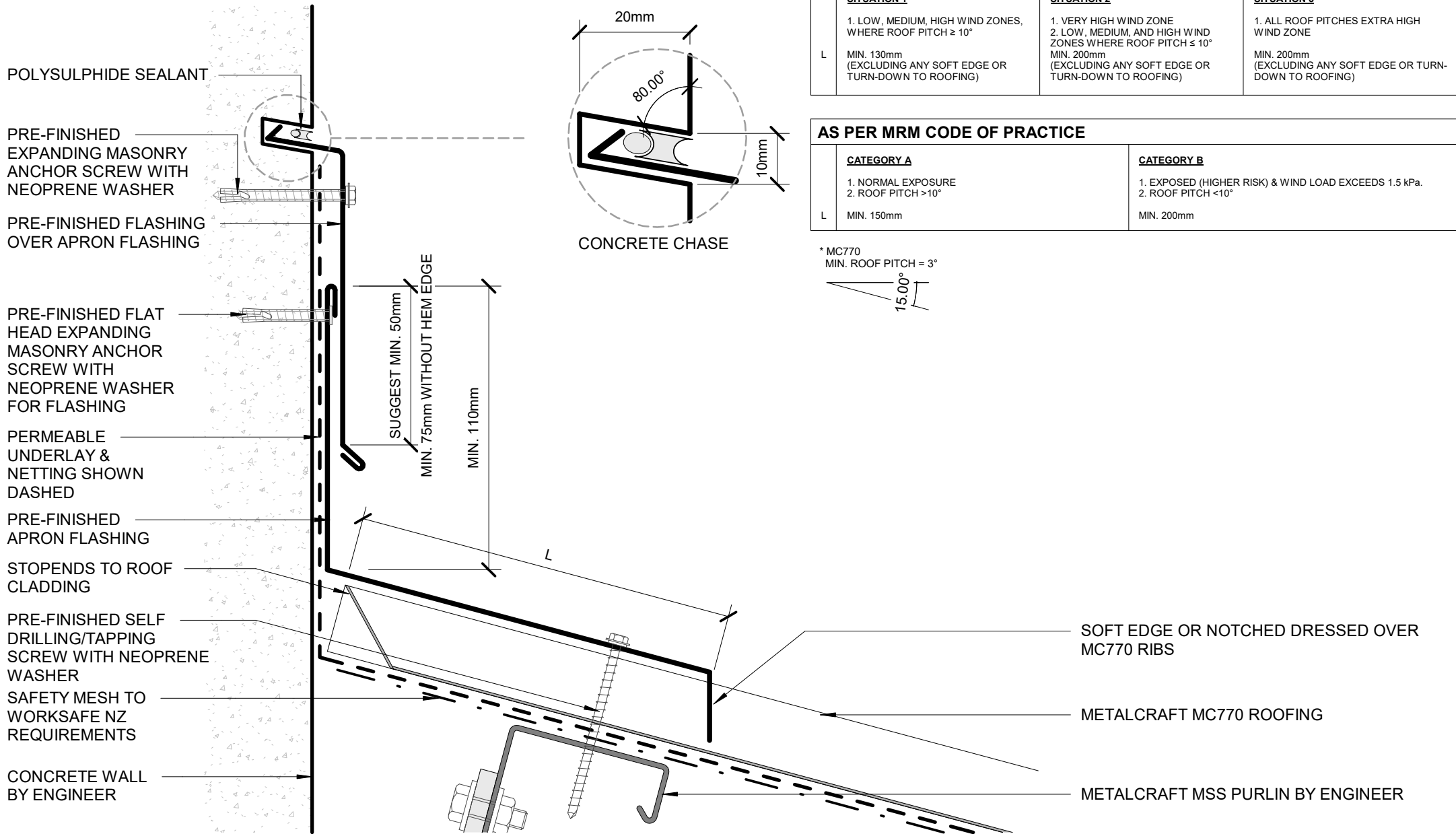
COMMERCIAL ROOFING

Reference CRMC770

Date JAN 2023

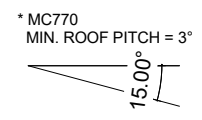
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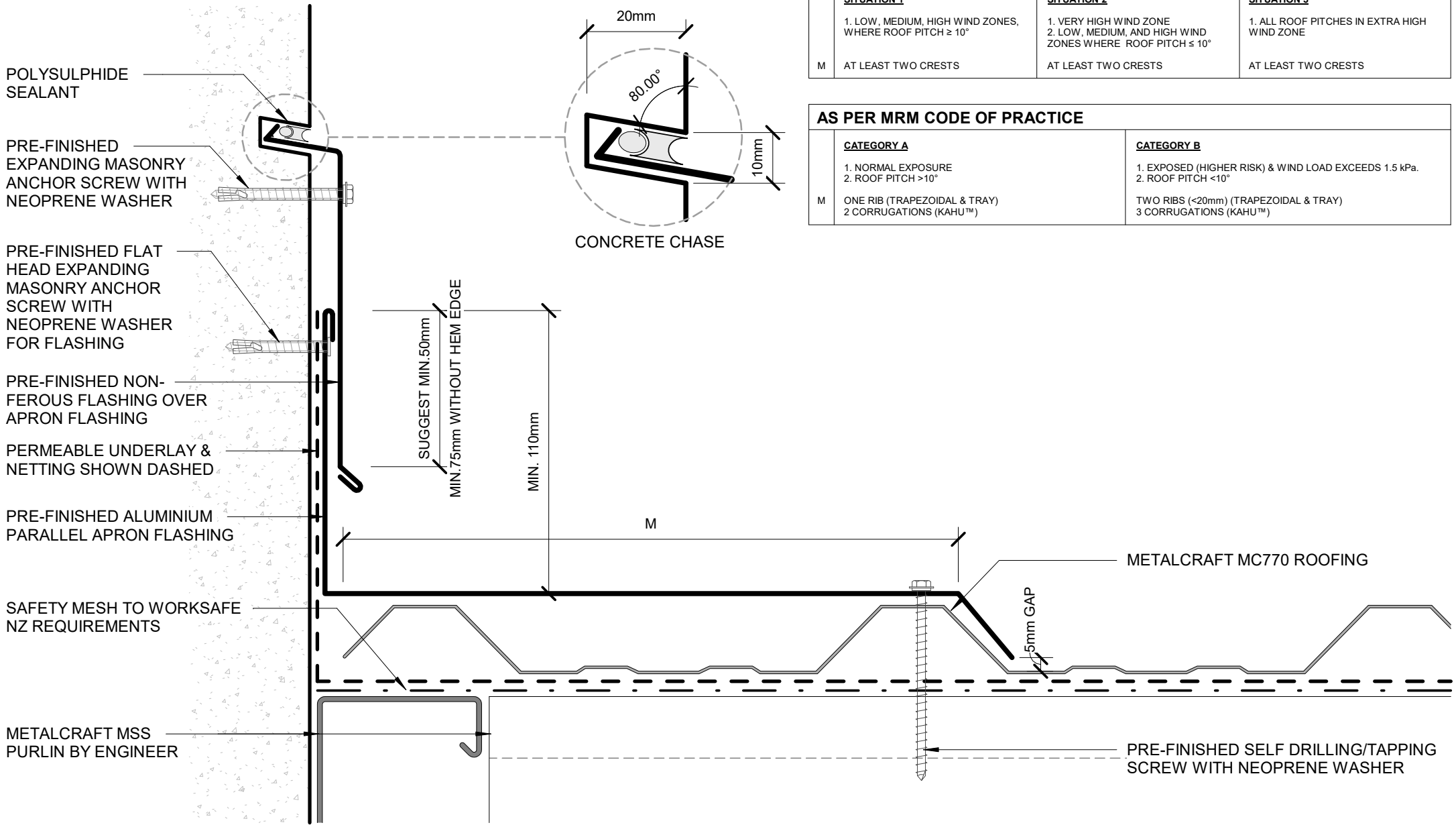
Sheet **D 09 / 17**



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

AS PER MRM CODE OF PRACTICE	
<p>CATEGORY A</p> <p>1. NORMAL EXPOSURE 2. ROOF PITCH $>10^\circ$</p> <p>L MIN. 150mm</p>	<p>CATEGORY B</p> <p>1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH $<10^\circ$</p> <p>MIN. 200mm</p>



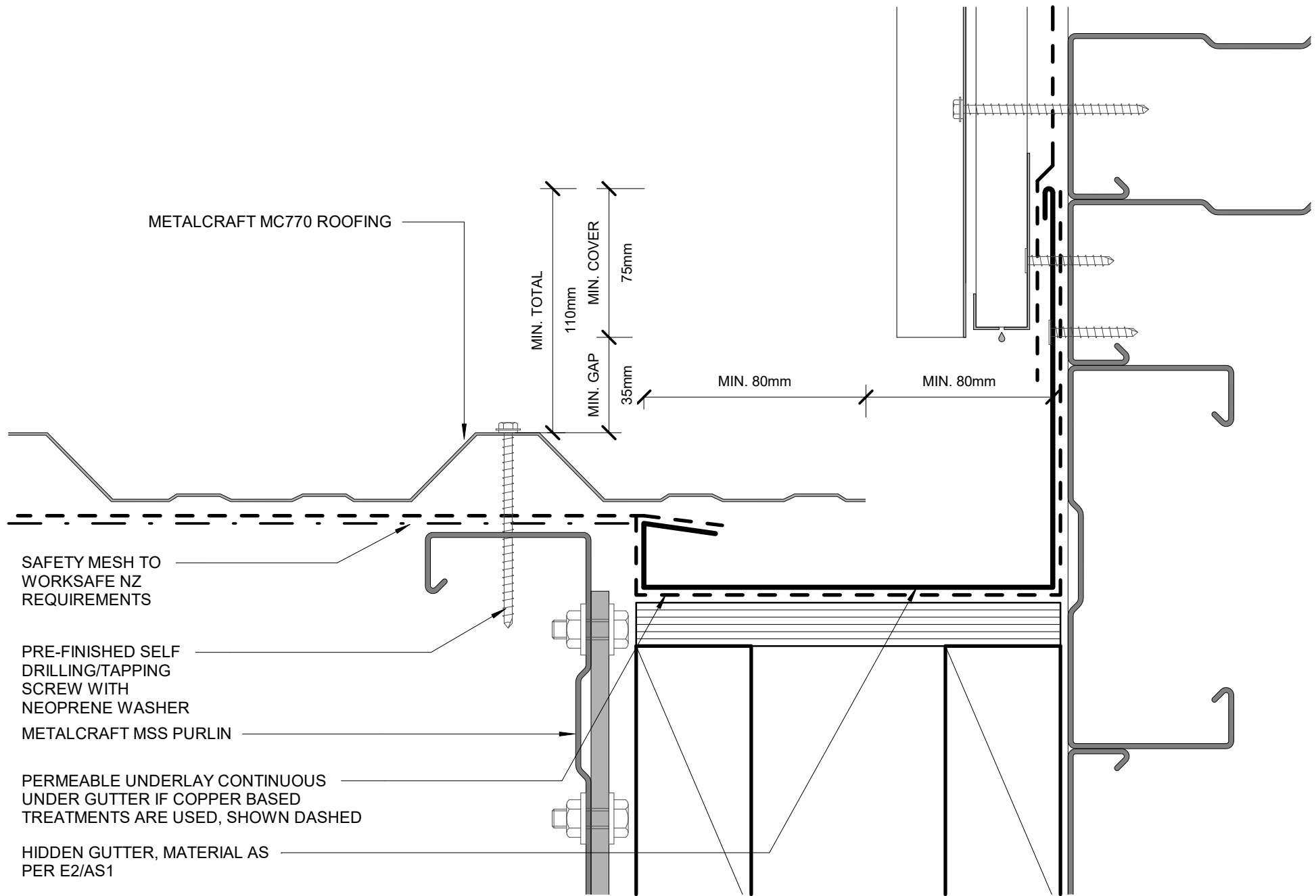


AS PER E2/ASI

	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 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 $>10^\circ$	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH $<10^\circ$
M	ONE RIB (TRAPEZOIDAL & TRAY) 2 CORRUGATIONS (KAHU™)	TWO RIBS ($<20\text{mm}$) (TRAPEZOIDAL & TRAY) 3 CORRUGATIONS (KAHU™)



METALCRAFT MC770 ROOFING

MIN. TOTAL
110mm
MIN. COVER
75mm
MIN. GAP
35mm

MIN. 80mm

MIN. 80mm

SAFETY MESH TO
WORKSAFE NZ
REQUIREMENTS

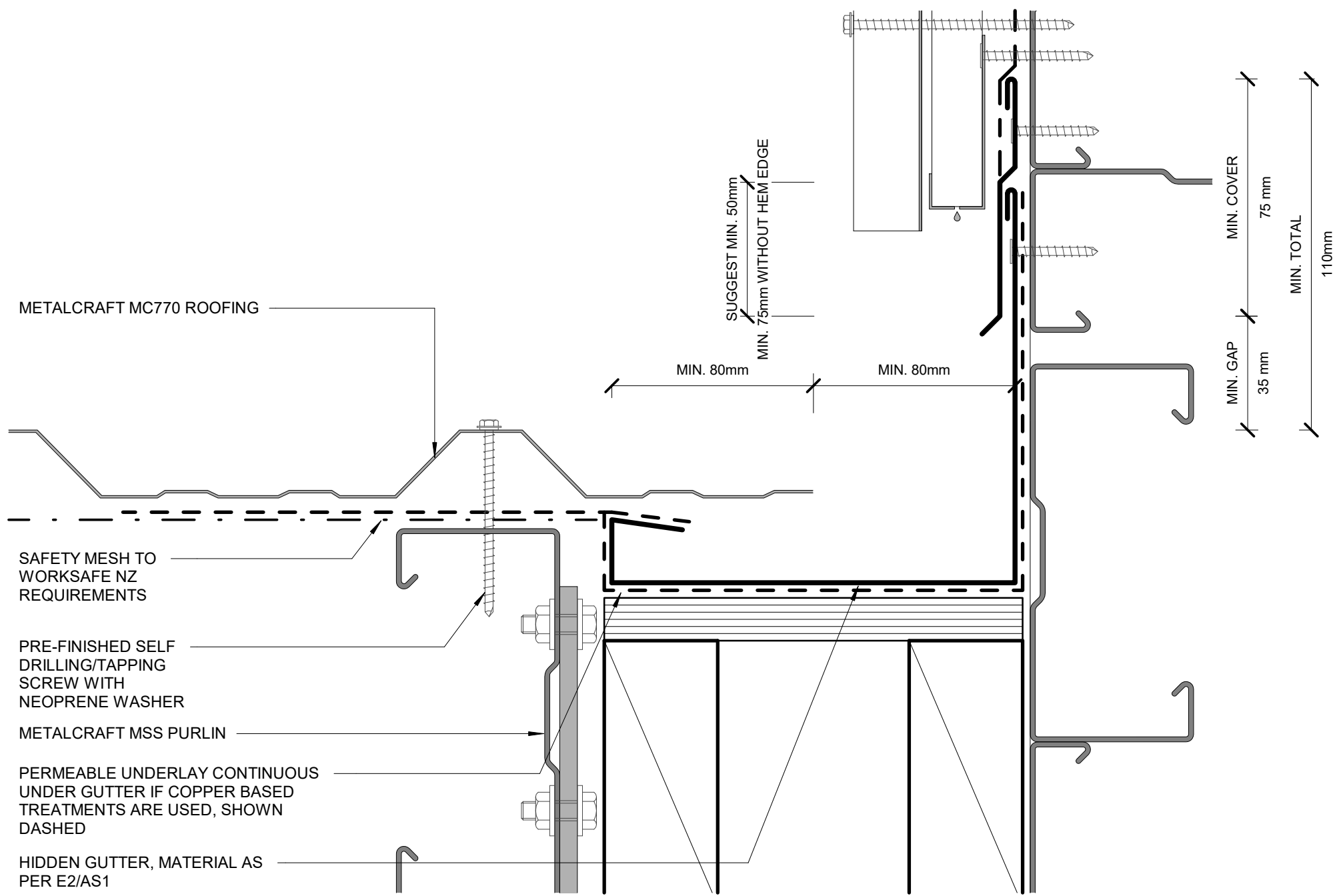
PRE-FINISHED SELF
DRILLING/TAPPING
SCREW WITH
NEOPRENE WASHER

METALCRAFT MSS PURLIN

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

HIDDEN GUTTER, MATERIAL AS
PER E2/AS1

PARALLEL HIDDEN GUTTER
COMMERCIAL ROOFING



METALCRAFT MC770 ROOFING

SUGGEST MIN. 50mm
MIN. 75mm WITHOUT HEM EDGE

MIN. 80mm

MIN. 80mm

MIN. COVER
75 mm

MIN. GAP
35 mm

MIN. TOTAL
110mm

SAFETY MESH TO
WORKSAFE NZ
REQUIREMENTS

PRE-FINISHED SELF
DRILLING/TAPPING
SCREW WITH
NEOPRENE WASHER

METALCRAFT MSS PURLIN

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

HIDDEN GUTTER, MATERIAL AS
PER E2/AS1

PARALLEL HIDDEN GUTTER (2 PART FLASHING)

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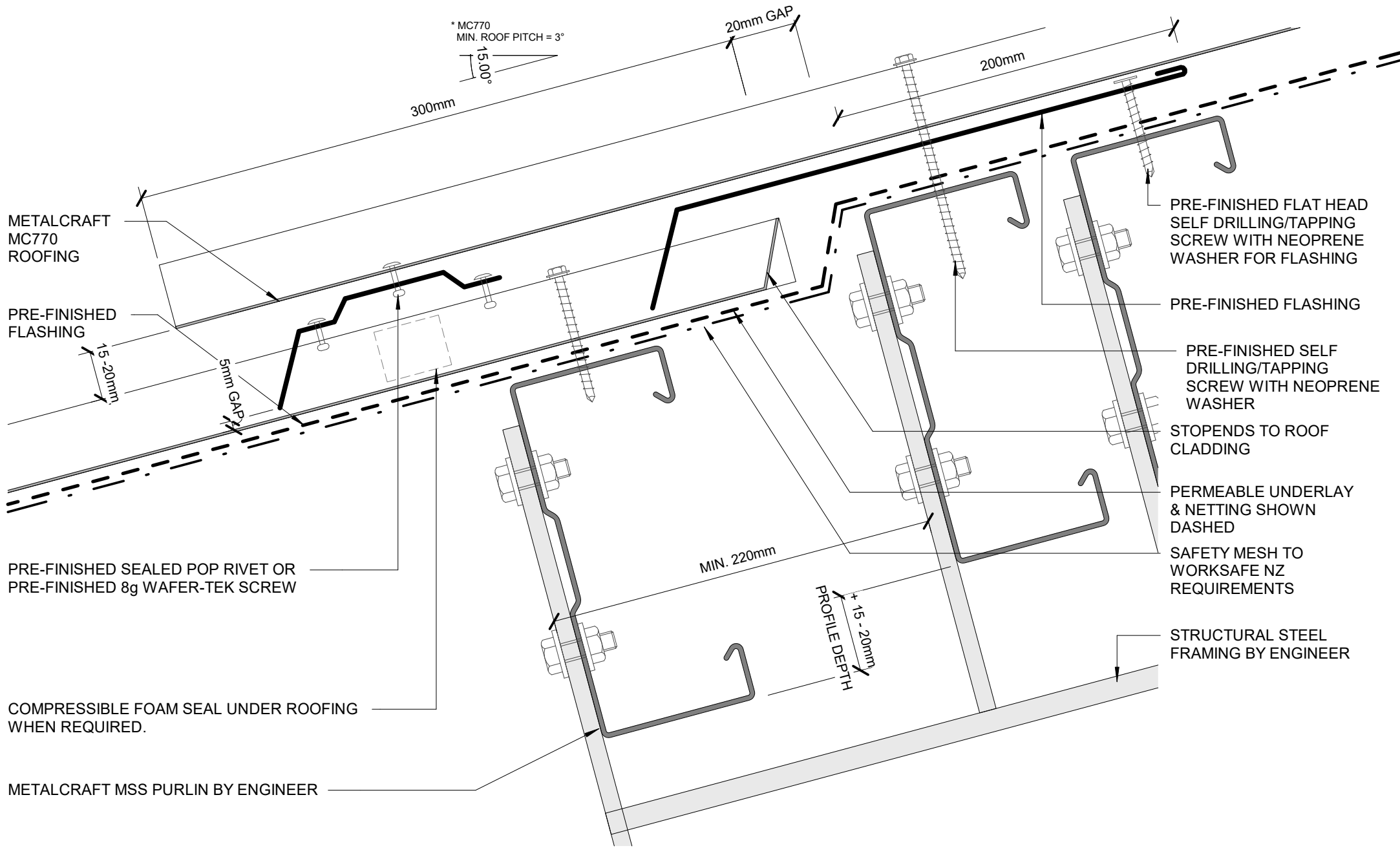
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Date JAN 2023

Scale 1 : 2

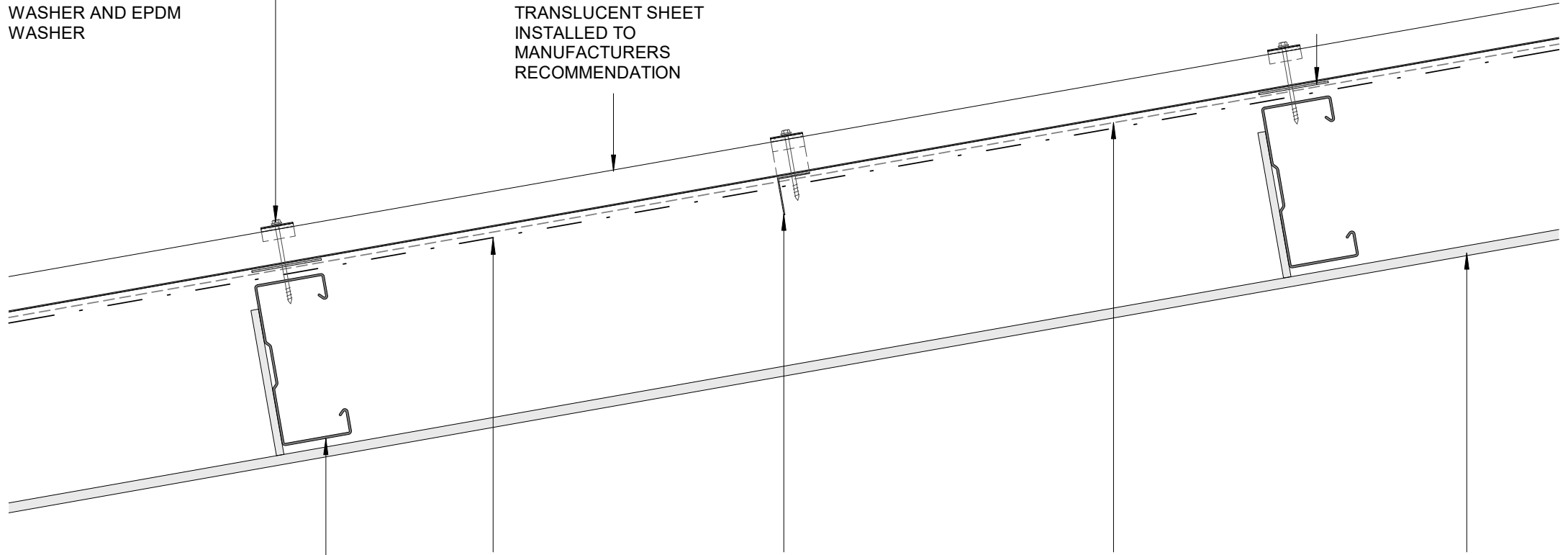
Sheet **D 13 / 17**



FIXING WITH PROFILED
WASHER AND EPDM
WASHER

METALCRAFT MC770
TRANSLUCENT SHEET
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

FIXING WITH PROFILED
WASHER AND EPDM WASHER

METALCRAFT MC770
TRANSLUCENT SHEET
INSTALLED TO
MANUFACTURERS
RECOMMENDATION

PURLIN PROTECTION

METALCRAFT MC770 ROOFING

