

MC770

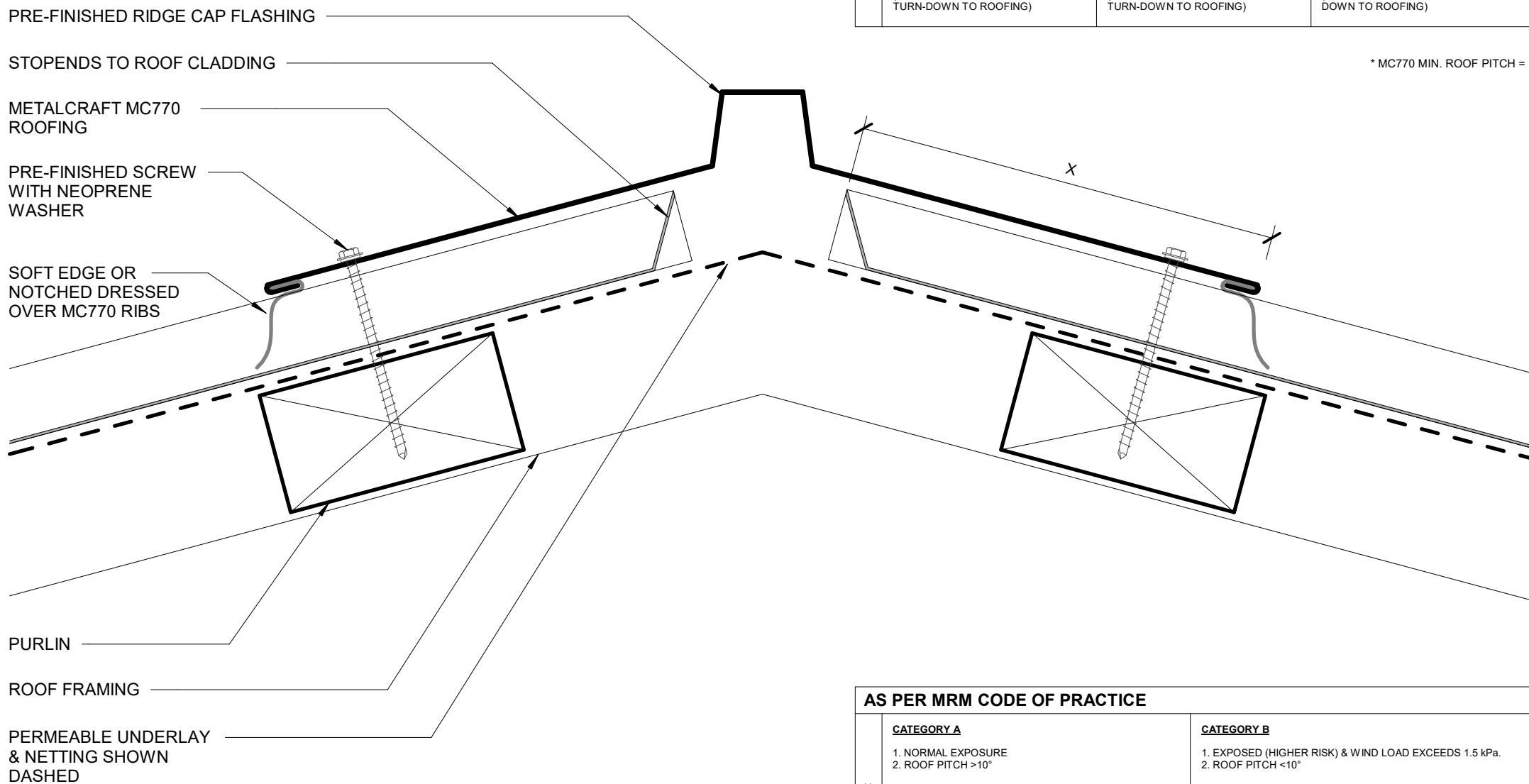
RESIDENTIAL ROOFING

<u>DETAIL LIST</u>	<u>Revision</u>	<u>Date</u>	<u>DETAIL LIST</u>	<u>Revision</u>	<u>Date</u>
A 00 / 29			A 15 / 29		
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COVER SHEET			FLUSH EAVE WITH EXTERNAL GUTTER BRACKET	1.0	JAN 2023
ROOF RIDGE	1.0	JAN 2023	BARGE WITH PROFILED CLADDING	1.0	JAN 2023
ROOF RIDGE (ROUND)	1.0	JAN 2023	BARGE OVERHANG	1.0	JAN 2023
SAWTOOTH RIDGE	1.0	JAN 2023	PARARPET WITH TRANSVERSE APRON	1.0	JAN 2023
SAWTOOTH EAVE	1.0	JAN 2023	TRANSVERSE APRON	1.0	JAN 2023
ROOF VALLEY	1.0	JAN 2023	PARALLEL APRON	1.0	JAN 2023
ROOF VALLEY BAFFLE	1.0	JAN 2023	PIPE PENETRATION DIRECT FIXED BOOT FLASHING	1.0	JAN 2023
INTERNAL GUTTER	1.0	JAN 2023	PIPE PENETRATION BACK TRAY BOOT FLASHING	1.0	JAN 2023
PARALLEL HIDDEN GUTTER	1.0	JAN 2023	3D RIDGE TO BARGE JUNCTION	1.0	JAN 2023
PARALLEL HIDDEN GUTTER (2 PART FLASHING)	1.0	JAN 2023	3D DUTCH GABLE	1.0	JAN 2023
ROOF - CHANGE PITCH	1.0	JAN 2023	3D APRON	1.0	JAN 2023
MANSARD	1.0	JAN 2023	BACK TRAY PENETRATION	1.0	JAN 2023
EAVE WITH METALLINE FASCIA	1.0	JAN 2023	3D CHIMNEY PENETRATION	1.0	JAN 2023
EAVE WITH SNOW STRAP	1.0	JAN 2023	3D RIDGE/BARGE FLASHINGS	1.0	JAN 2023
FLUSH EAVE WITH INTERNAL GUTTER BRACKET	1.0	JAN 2023	3D DUTCH GABLE FLASHINGS	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)

* MC770 MIN. ROOF PITCH = 3°

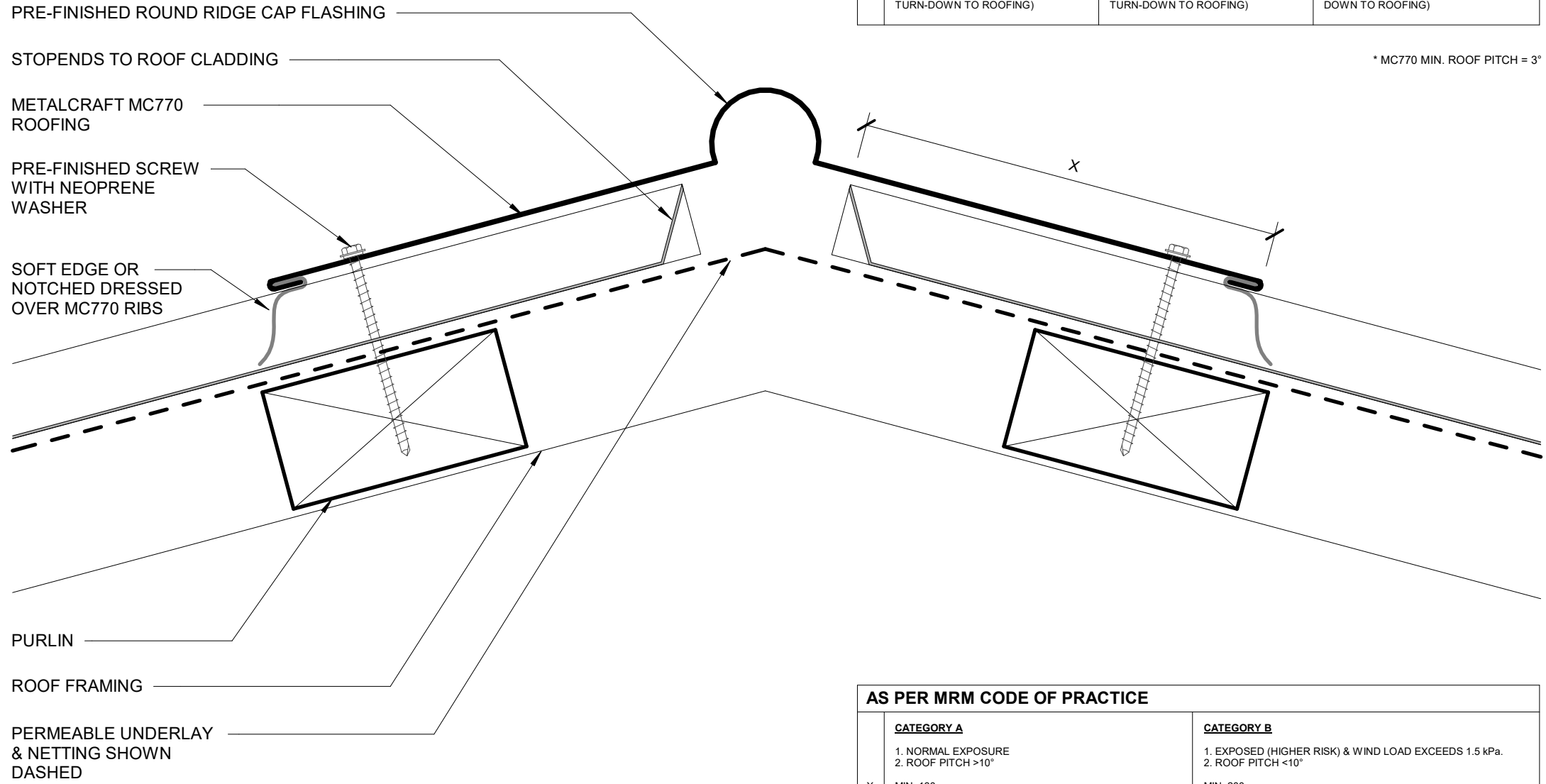


AS PER MRM CODE OF PRACTICE

	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

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)

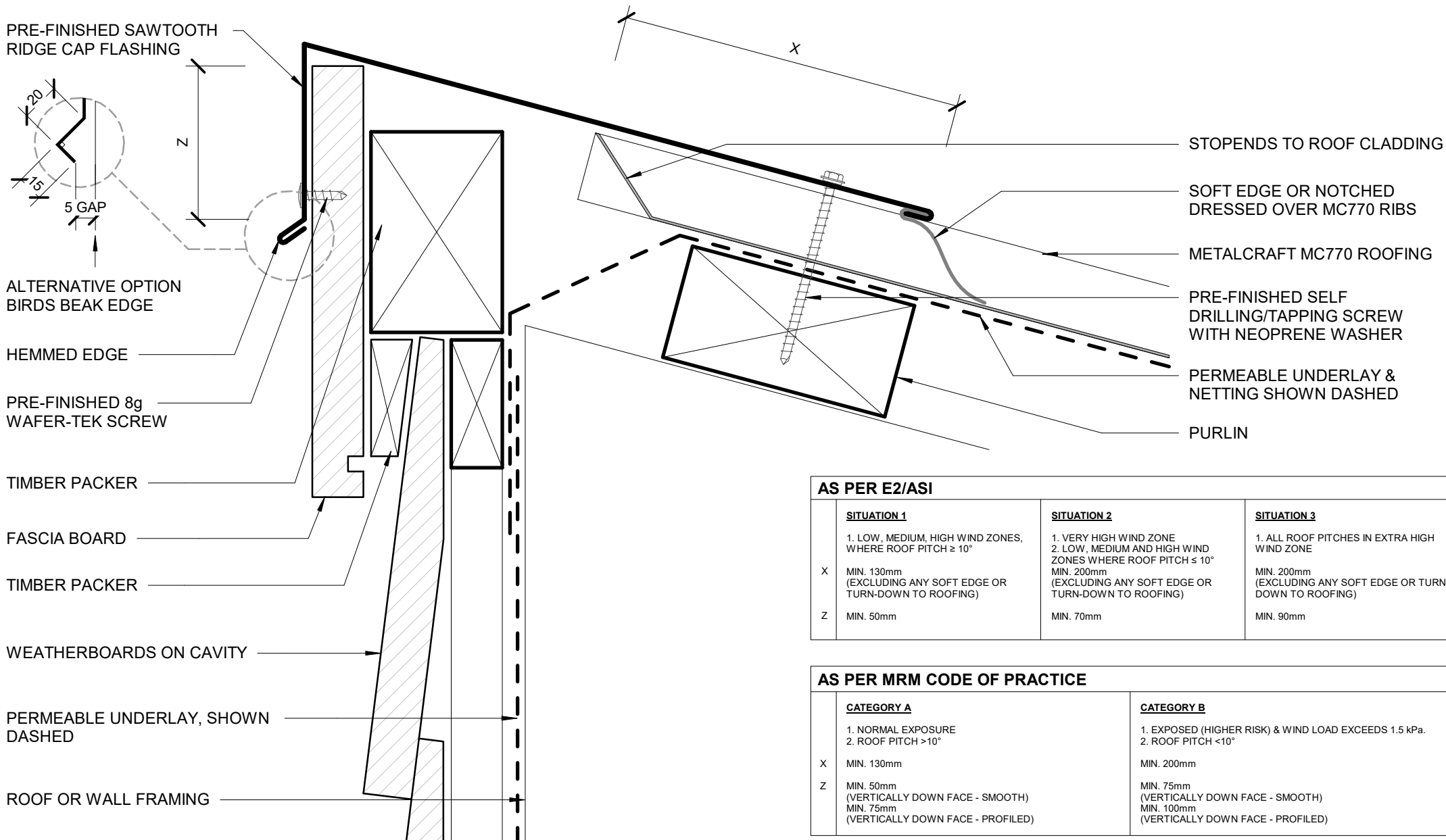
* MC770 MIN. ROOF PITCH = 3°



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



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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 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)
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	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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Rev. 1.0

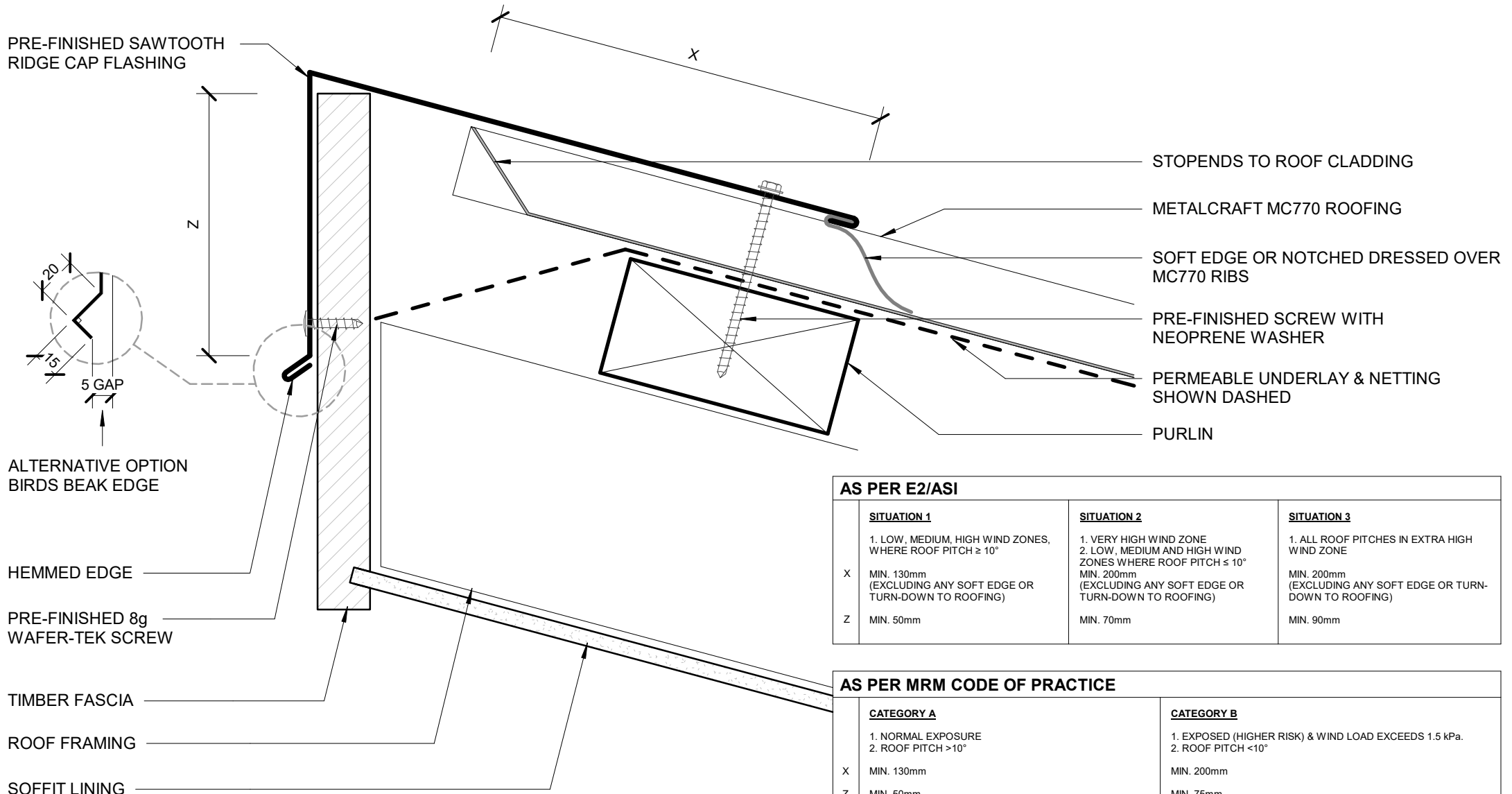
Reference RRM770

Date JAN 2023

**SAWTOOTH RIDGE
RESIDENTIAL ROOFING**

Scale 1 : 2

Sheet **A 03 / 29**



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)

METALCRAFT MC770 ROOFING

PRE-FINISHED SCREW WITH NEOPRENE WASHER

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

ROOF FRAMING

PURLIN

VALLEY BOARD

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

VALLEY GUTTER, MATERIAL AS PER E2/AS1 AND MRM CODE OF PRACTICE

VALLEY RAFTER

*ROOF PITCH FOR VALLEYS AS PER MRM CODE OF PRACTICE VERSION 3.0/2019

- FOR 8° DEGREES OR LOWER USE INTERNAL GUTTER DETAIL

METALCRAFT MC770 ROOFING

PRE-FINISHED SCREW WITH NEOPRENE WASHER

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

ROOF FRAMING

PURLIN

VALLEY BOARD

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

VALLEY GUTTER, MATERIAL AS PER E2/AS1 AND MRM CODE OF PRACTICE

VALLEY RAFTER

*ROOF PITCH FOR VALLEYS AS PER MRM CODE OF PRACTICE VERSION 3.0/2019

- FOR 8° DEGREES OR LOWER USE INTERNAL GUTTER DETAIL

METALCRAFT MC770 ROOFING

PRE-FINISHED
SCREW WITH
NEOPRENE WASHER

GUTTER EAVES FLASHING
RECOMMENDED AS SEPERATION
BETWEEN BUTYNOL

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

PURLIN

ROOF FRAMING

TIMBER FILLET

GUTTER BOARD

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

INTERNAL GUTTER, MATERIAL AS PER
E2/AS1 AND MRM CODE OF PRACTICE

VALLEY RAFTER

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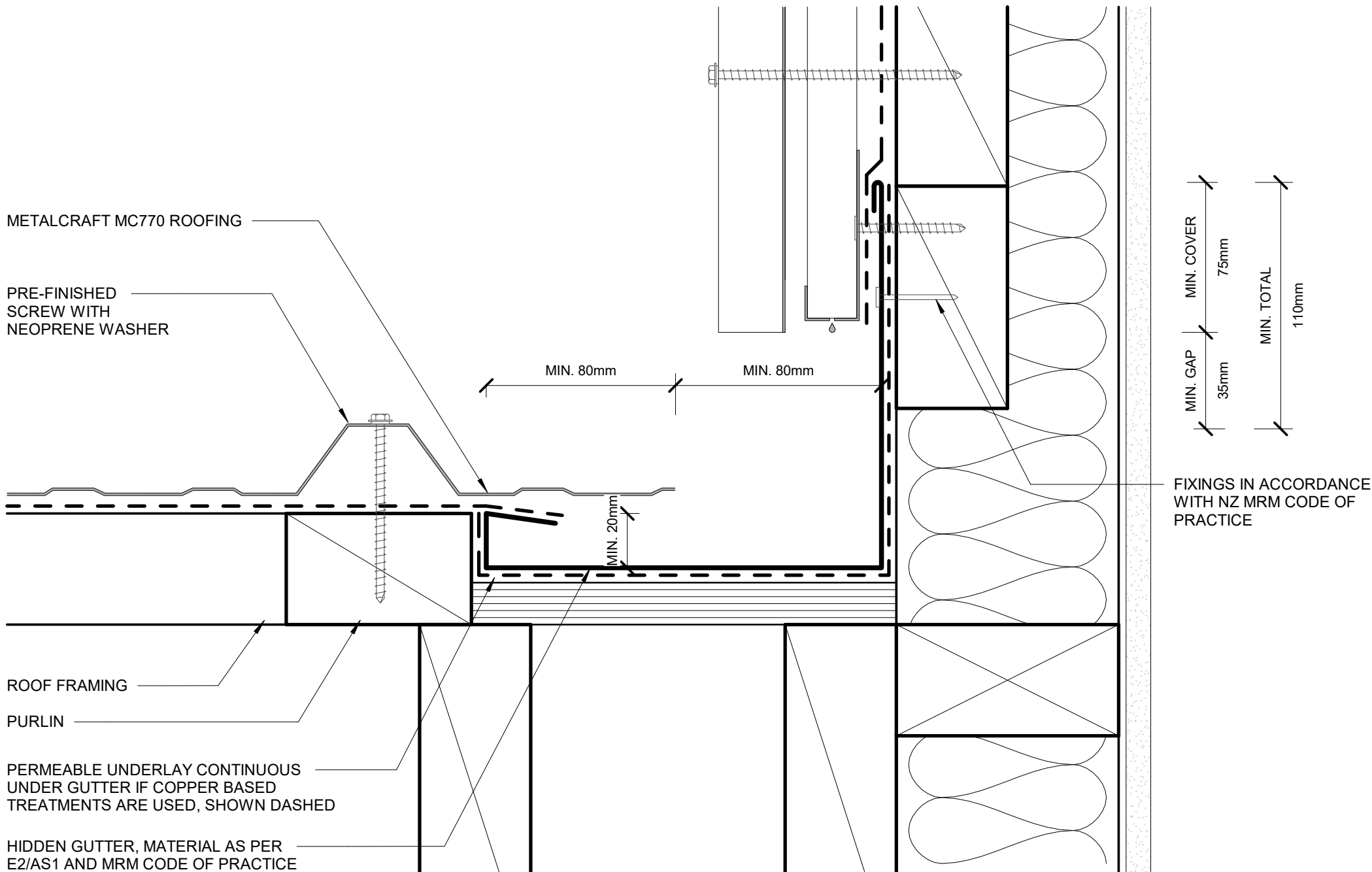
Reference RRM770

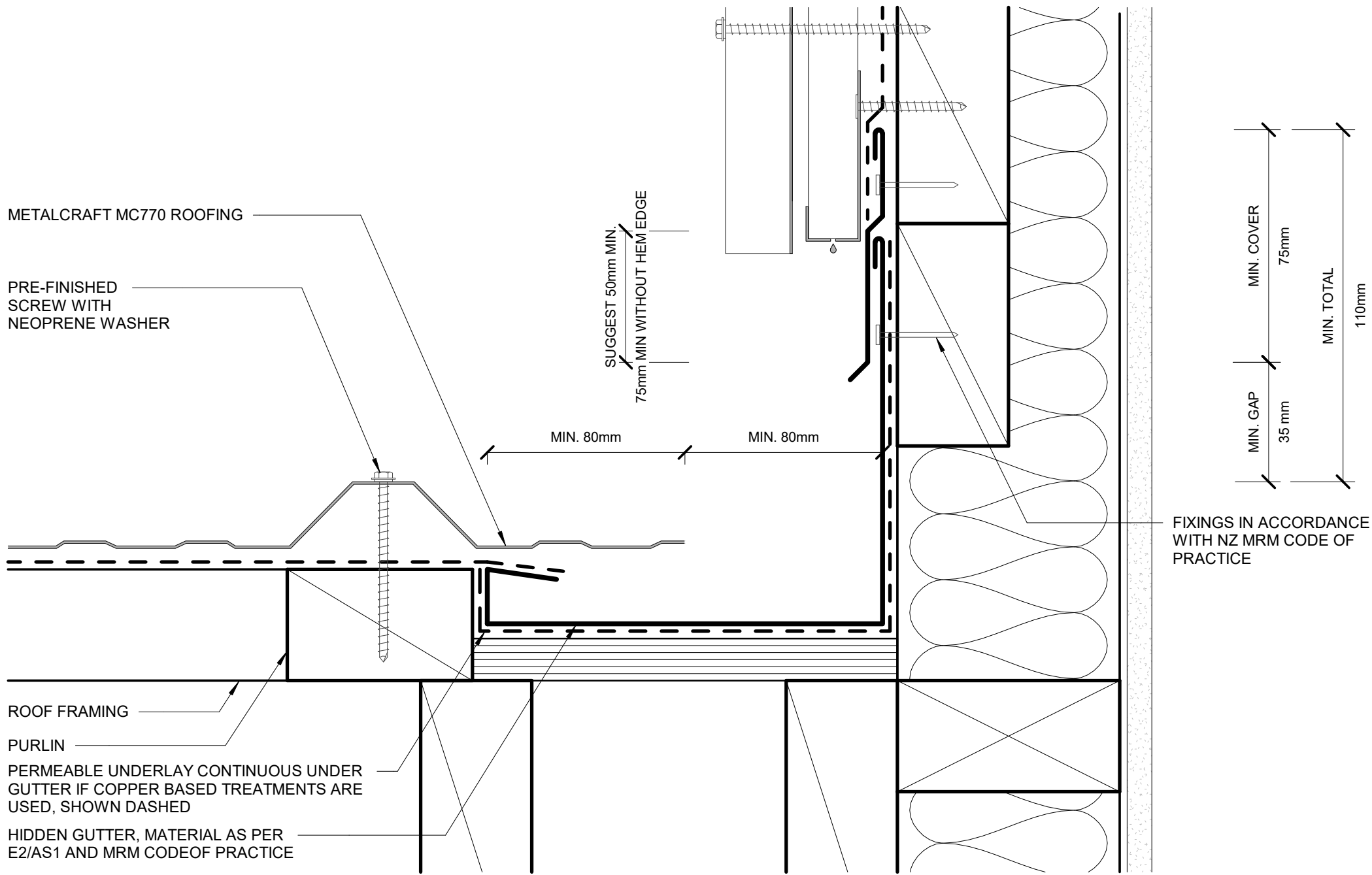
Date JAN 2023

Scale 1 : 2

INTERNAL GUTTER
RESIDENTIAL ROOFING

Sheet **A 07 / 29**





METALCRAFT MC770 ROOFING

PRE-FINISHED SCREW WITH NEOPRENE WASHER

SUGGEST 50mm MIN.
75mm MIN WITHOUT HEM EDGE

MIN. 80mm

MIN. 80mm

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

FIXINGS IN ACCORDANCE WITH NZ MRM CODE OF PRACTICE

ROOF FRAMING

PURLIN

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

HIDDEN GUTTER, MATERIAL AS PER E2/AS1 AND MRM CODE OF PRACTICE

PARALLEL HIDDEN GUTTER (2 PART FLASHING)

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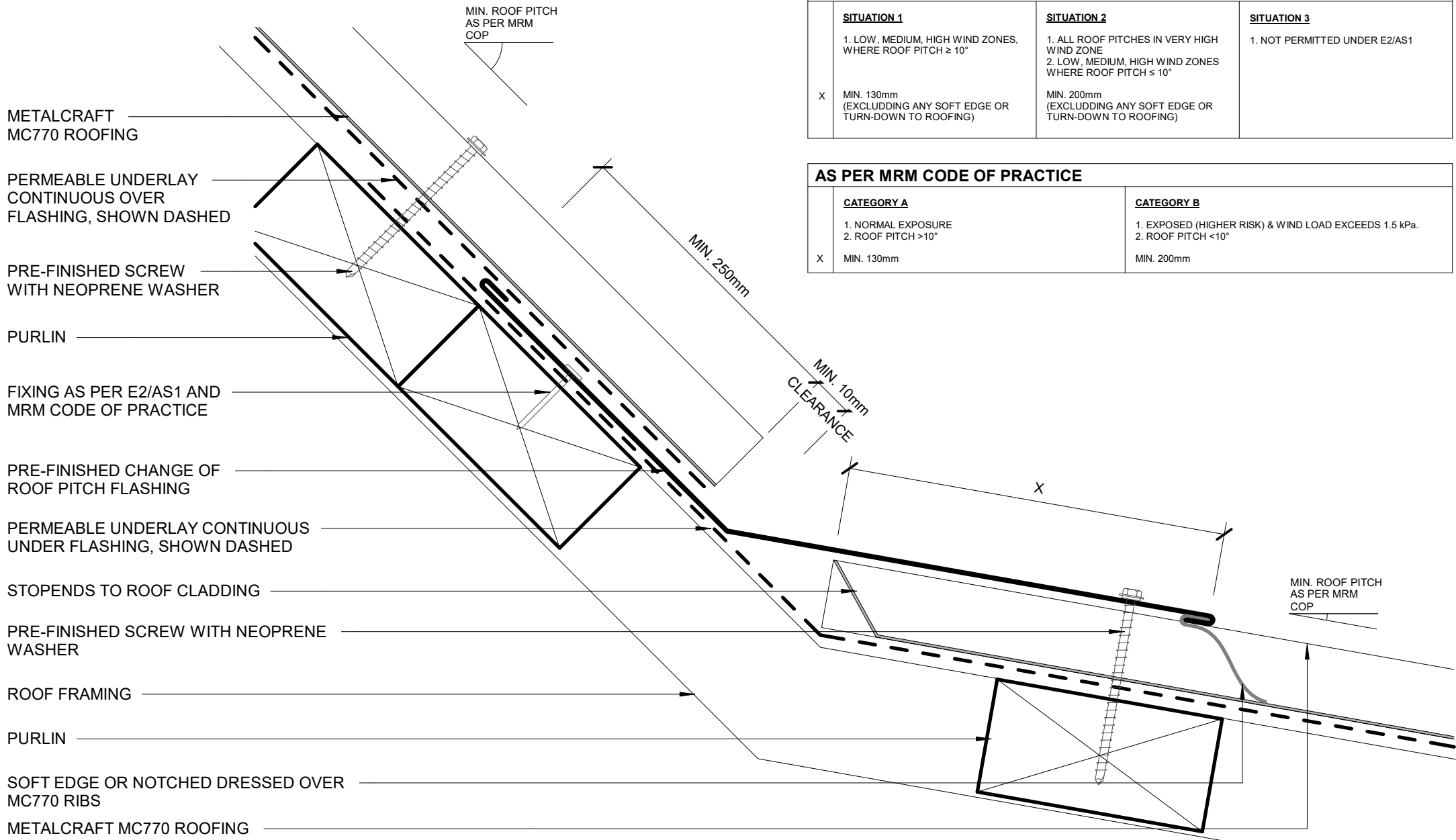
RESIDENTIAL ROOFING

Reference RRM770

Date JAN 2023

Scale 1 : 2

Sheet **A 09 / 29**



AS PER E2/AS1			
	SITUATION 1 1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH $\geq 10^\circ$	SITUATION 2 1. ALL ROOF PITCHES IN VERY HIGH WIND ZONE 2. LOW, MEDIUM, HIGH WIND ZONES WHERE ROOF PITCH $\leq 10^\circ$	SITUATION 3 1. NOT PERMITTED UNDER E2/AS1
X	MIN. 130mm (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 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

METALCRAFT
MC770 ROOFING

FIXING AS PER E2/AS1 AND
MRM CODE OF PRACTICE

PRE-FINISHED SELF
DRILLING/TAPPING SCREW
WITH NEOPRENE WASHER

PERMEABLE UNDERLAY
CONTINUOUS OVER
FLASHING, SHOWN DASHED

PURLIN

PRE-FINISHED CHANGE OF
ROOF PITCH FLASHING

PERMEABLE UNDERLAY
CONTINUOUS UNDER
FLASHING, SHOWN DASHED

STOPENDS TO ROOF CLADDING

ROOF FRAMING

PRE-FINISHED SELF DRILLING/TAPPING
SCREW WITH NEOPRENE WASHER

PURLIN

SOFT EDGE OR NOTCHED DRESSED OVER MC770
RIBS

METALCRAFT MC770 ROOFING

MIN. ROOF PITCH
AS PER MRM
COP

250mm MIN

50mm MIN

MIN. ROOF PITCH
AS PER MRM
COP

AS PER E2/AS1

	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, HIGH WIND ZONES WHERE ROOF PITCH $\leq 10^\circ$	1. NOT PERMITTED UNDER E2/AS1
X	MIN. 130mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)	MIN. 200mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)	

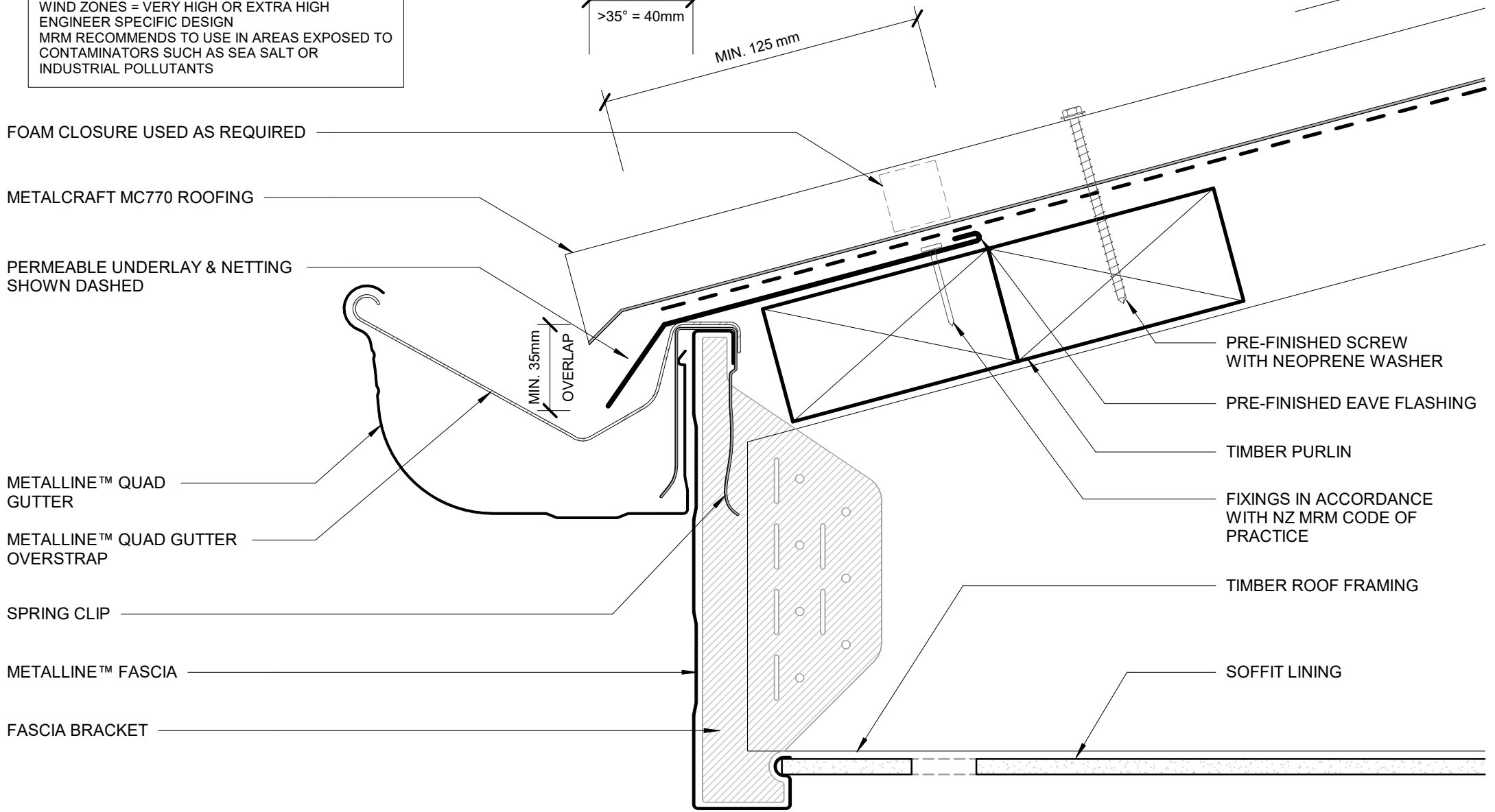
AS PER MRM CODE OF PRACTICE

	CATEGORY A	CATEGORY B
	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

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° UN-BAFFLED BY SPOUTING
 10-35° = 50mm
 >35° = 40mm

MIN. ROOF PITCH AS PER MRM COP



FOAM CLOSURE USED AS REQUIRED

METALCRAFT MC770 ROOFING

PERMEABLE UNDERLAY & NETTING SHOWN DASHED

METALLINE™ QUAD GUTTER

METALLINE™ QUAD GUTTER OVERSTRAP

SPRING CLIP

METALLINE™ FASCIA

FASCIA BRACKET

MIN. 35mm OVERLAP

MIN. 125 mm

PRE-FINISHED SCREW WITH NEOPRENE WASHER

PRE-FINISHED EAVE FLASHING

TIMBER PURLIN

FIXINGS IN ACCORDANCE WITH NZ MRM CODE OF PRACTICE

TIMBER ROOF FRAMING

SOFFIT LINING

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

$10-35^\circ = 50\text{mm}$

$>35^\circ = 40\text{mm}$

MIN. 125 mm

MIN. ROOF PITCH AS PER MRM COP

METALCRAFT MC770 ROOFING

FOAM CLOSURE USED AS REQUIRED

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

SNOW STRAP AS REQUIRED

METALLINE™ QUAD GUTTER

METALLINE™ QUAD GUTTER INTERNAL BRACKET

PRE-FINISHED 8g WAFER-TEK SCREW

TIMBER FASCIA

MIN. 35mm OVERLAP

PRE-FINISHED SCREW WITH NEOPRENE WASHER

PERMEABLE UNDERLAY & NETTING SHOWN DASHED

PRE-FINISHED EAVE FLASHING

TIMBER PURLIN

FIXINGS IN ACCORDANCE WITH NZ MRM CODE OF PRACTICE

TIMBER ROOF FRAMING

SOFFIT LINING

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Reference RRM770

Date JAN 2023

EAVE WITH SNOW STRAP

RESIDENTIAL ROOFING

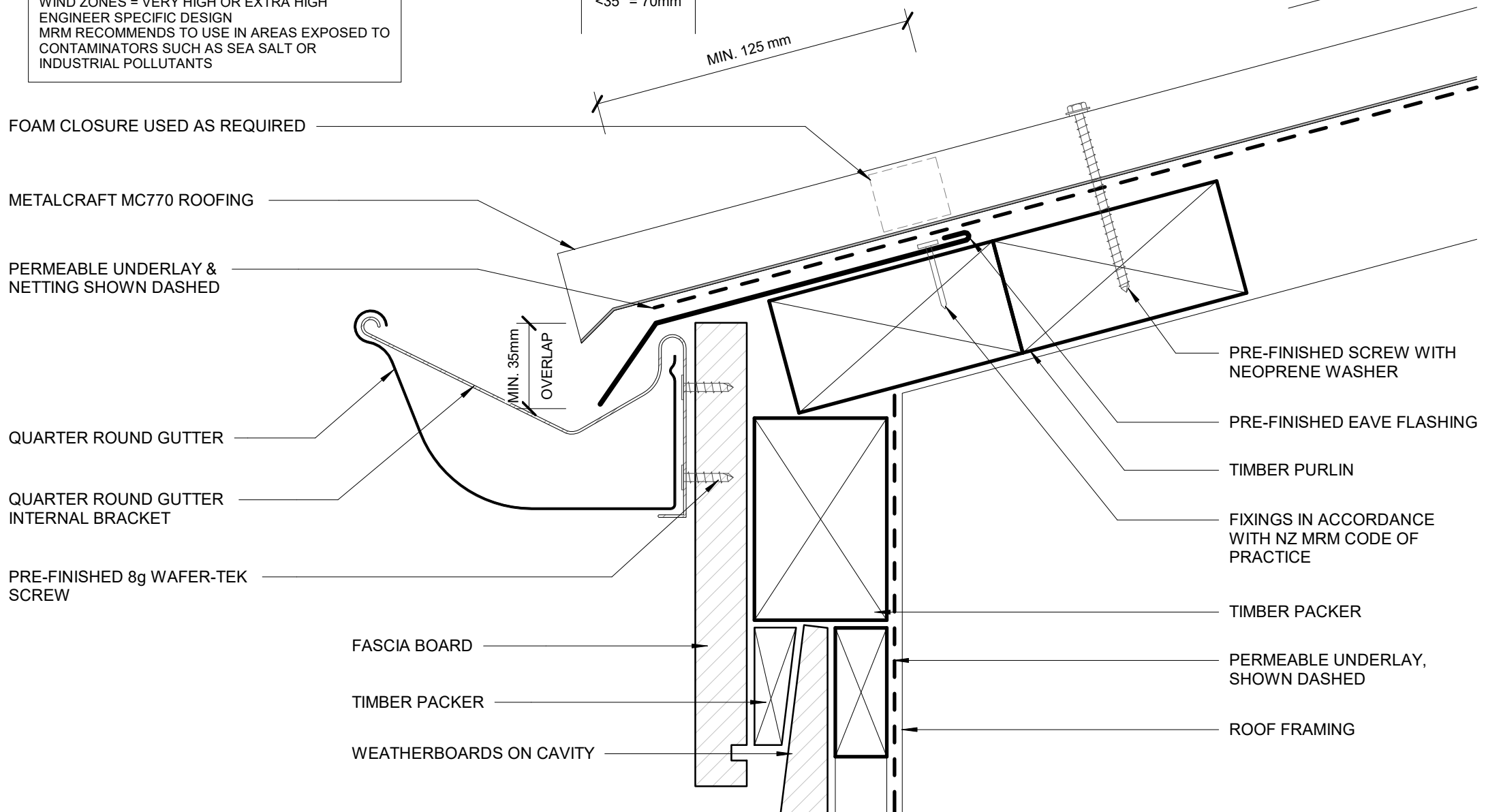
Scale 1 : 2

Sheet **A 13 / 29**

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
 $10-35^\circ = 50\text{mm}$
 $<35^\circ = 70\text{mm}$

MIN. ROOF PITCH
 AS PER MRM
 COP



FLUSH EAVE WITH INTERNAL GUTTER BRACKET

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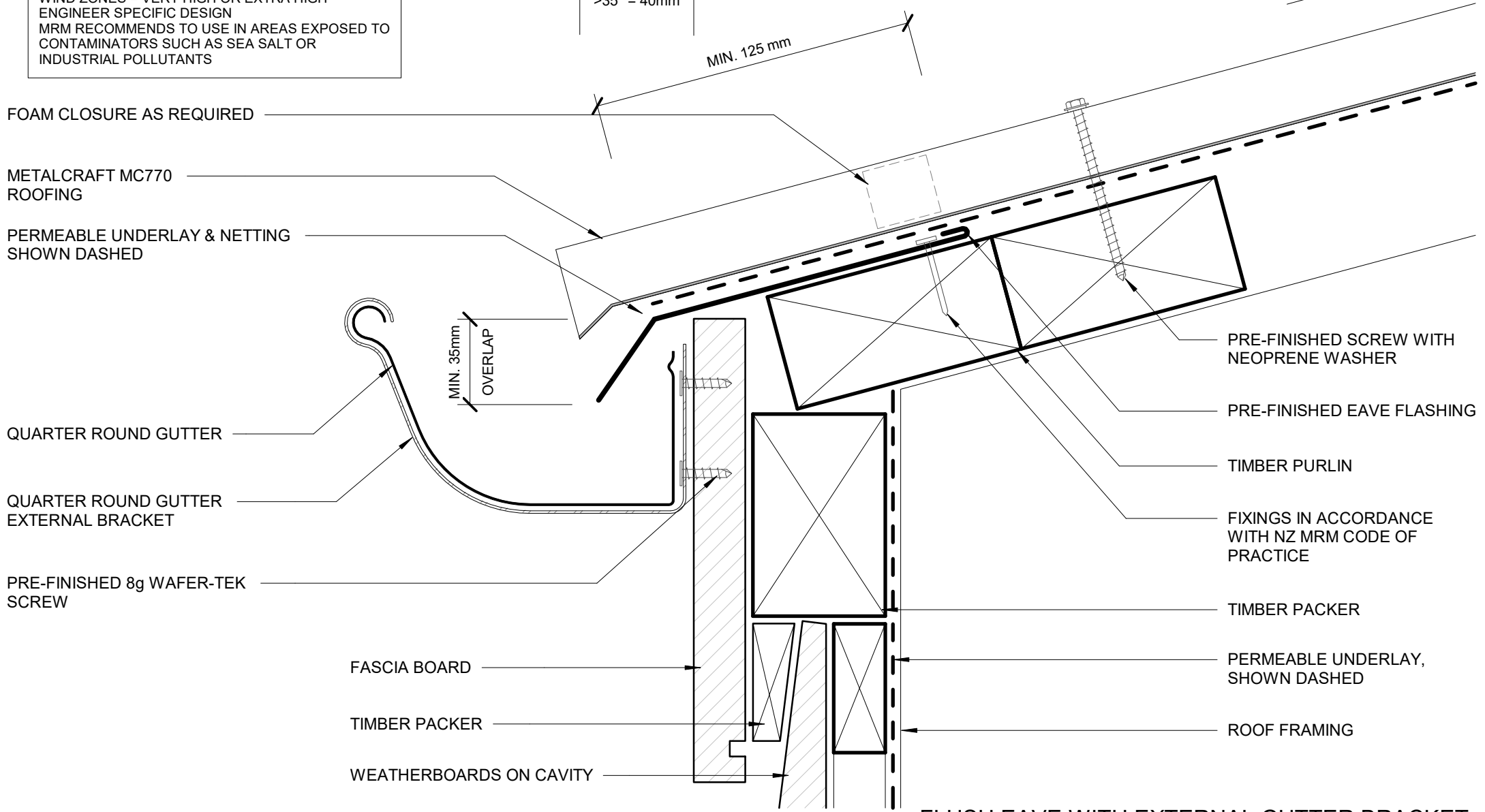
Scale 1 : 2

Sheet **A 14 / 29**

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
 $10-35^\circ = 50\text{mm}$
 $>35^\circ = 40\text{mm}$

MIN. ROOF PITCH
 AS PER MRM
 COP



FLUSH EAVE WITH EXTERNAL GUTTER BRACKET

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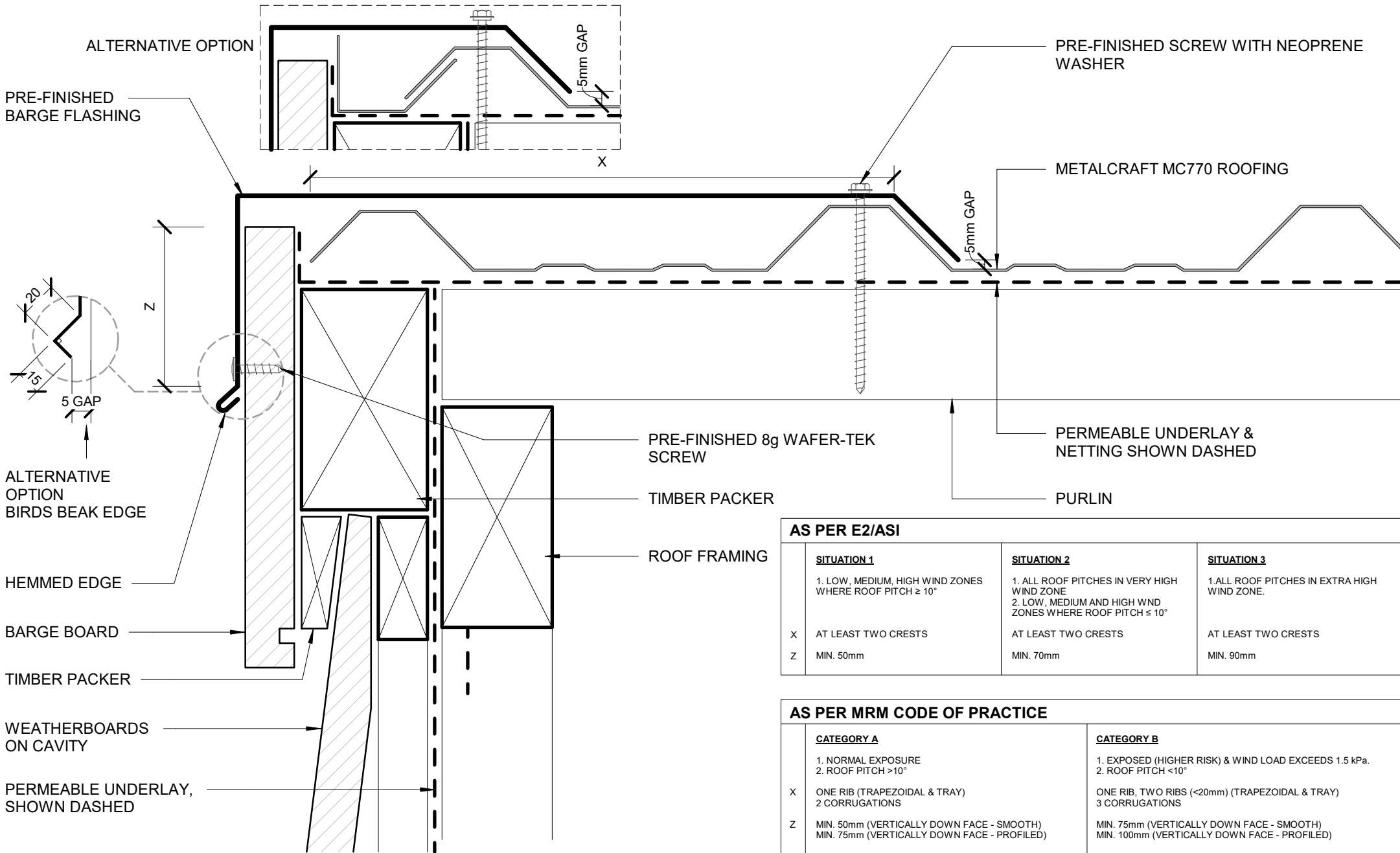
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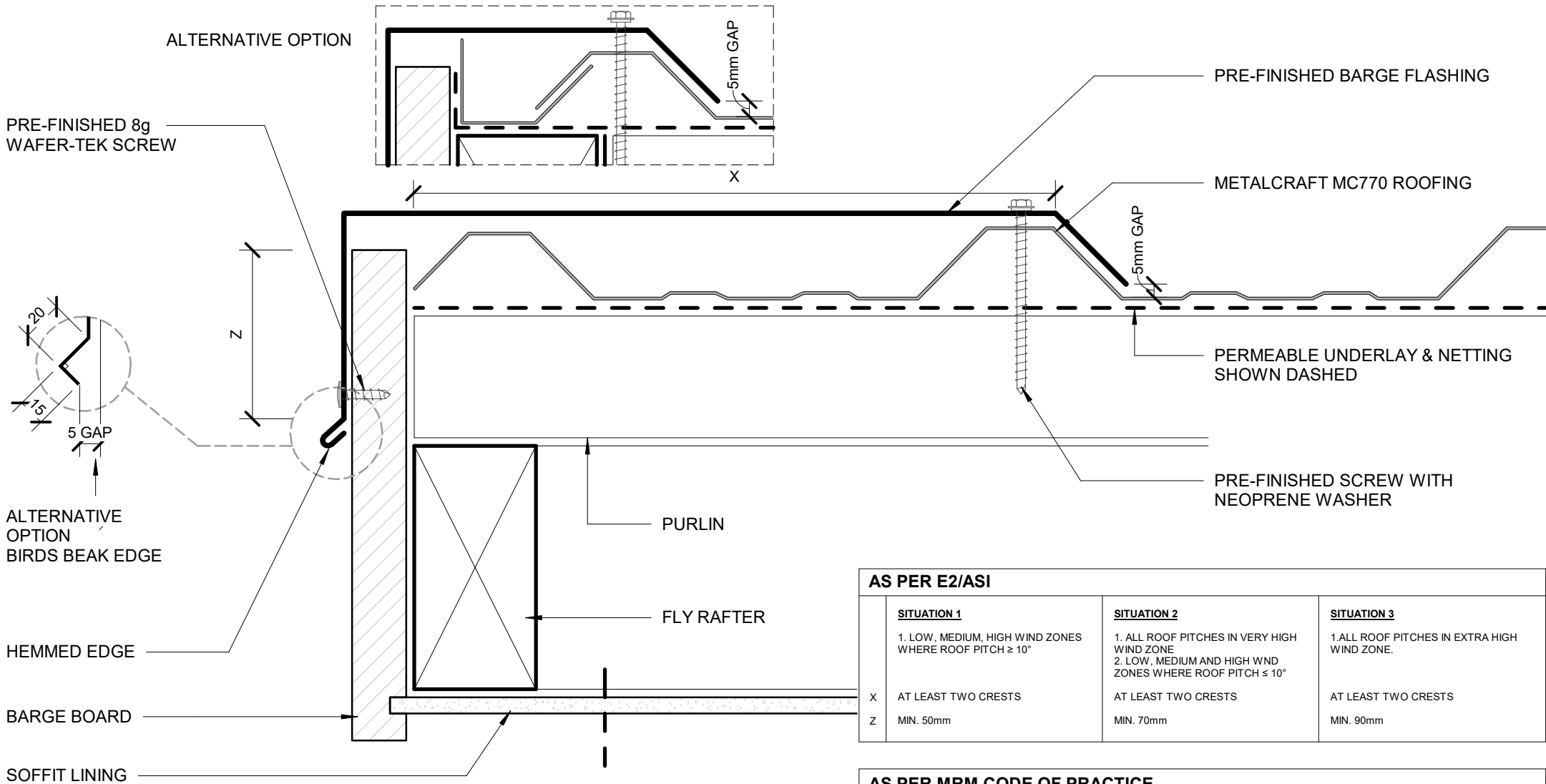
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Sheet **A 15 / 29**



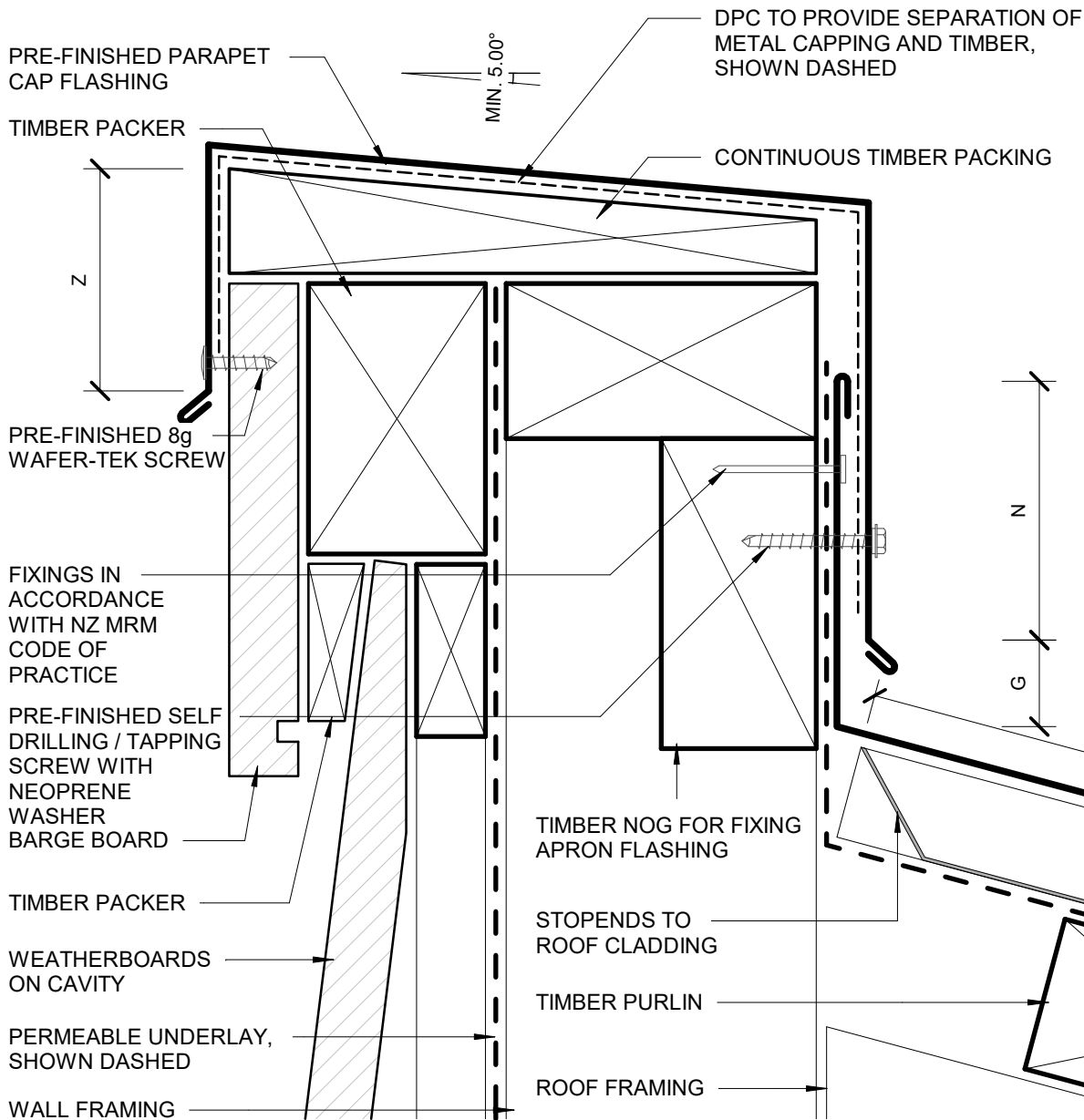
AS PER E2/ASI			
	SITUATION 1	SITUATION 2	SITUATION 3
	1. LOW, MEDIUM, HIGH WIND ZONES WHERE ROOF PITCH $\geq 10^\circ$	1. ALL ROOF PITCHES IN VERY HIGH WIND ZONE 2. LOW, MEDIUM AND HIGH WIND ZONES WHERE ROOF PITCH $\leq 10^\circ$	1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE.
X	AT LEAST TWO CRESTS	AT 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)



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)



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
RESIDENTIAL ROOFING

MC770

Rev. 1.0

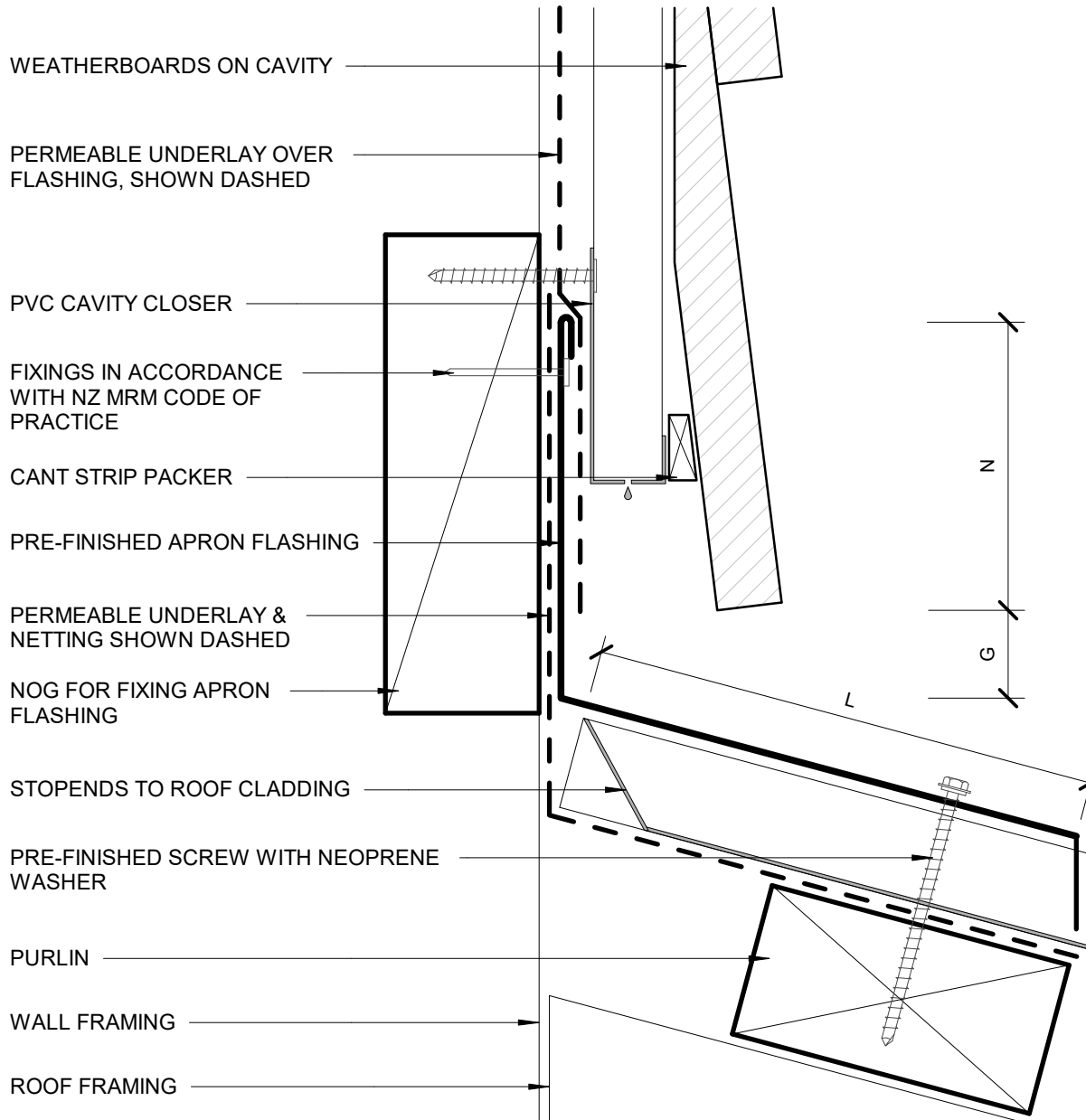
Reference RRM770

Date JAN 2023

Scale 1 : 2

Sheet **A 18 / 29**

DISCLAIMER:
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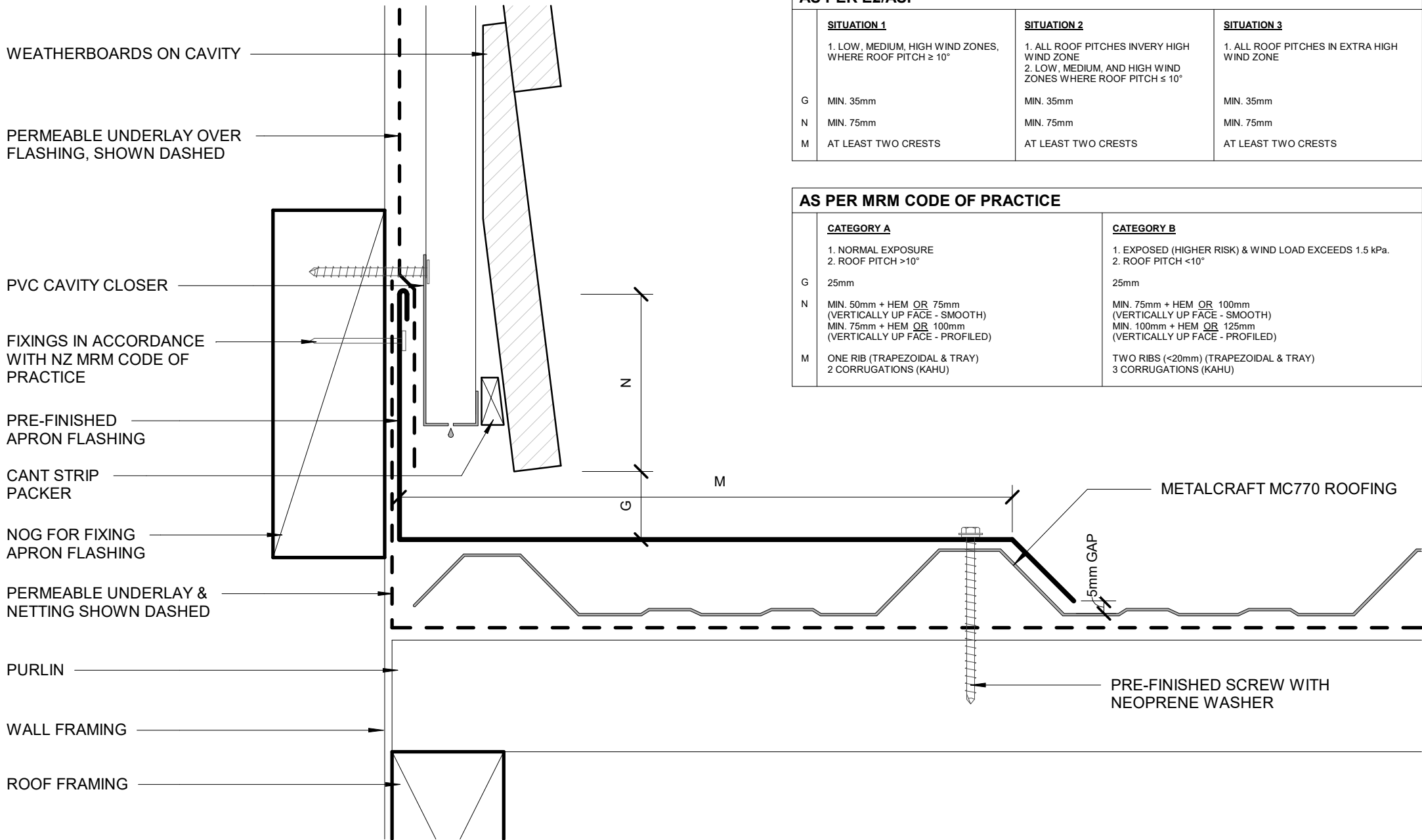
AS PER E2/ASI			
	SITUATION 1	SITUATION 2	SITUATION 3
	1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH $\geq 10^\circ$	1. ALL ROOF PITCHES IN VERY HIGH WIND ZONES 2. LOW, MEDIUM, AND HIGH WIND ZONES WHERE ROOF PITCH $\leq 10^\circ$	1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE
G	MIN. 35mm	MIN. 35mm	MIN. 35mm
N	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)

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 $< 10^\circ$
25mm	25mm
G 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)
N	
L MIN. 150mm	MIN. 200mm

MIN. ROOF PITCH AS PER MRM COP

METALCRAFT MC770 ROOFING

PERMEABLE UNDERLAY & NETTING SHOWN DASHED

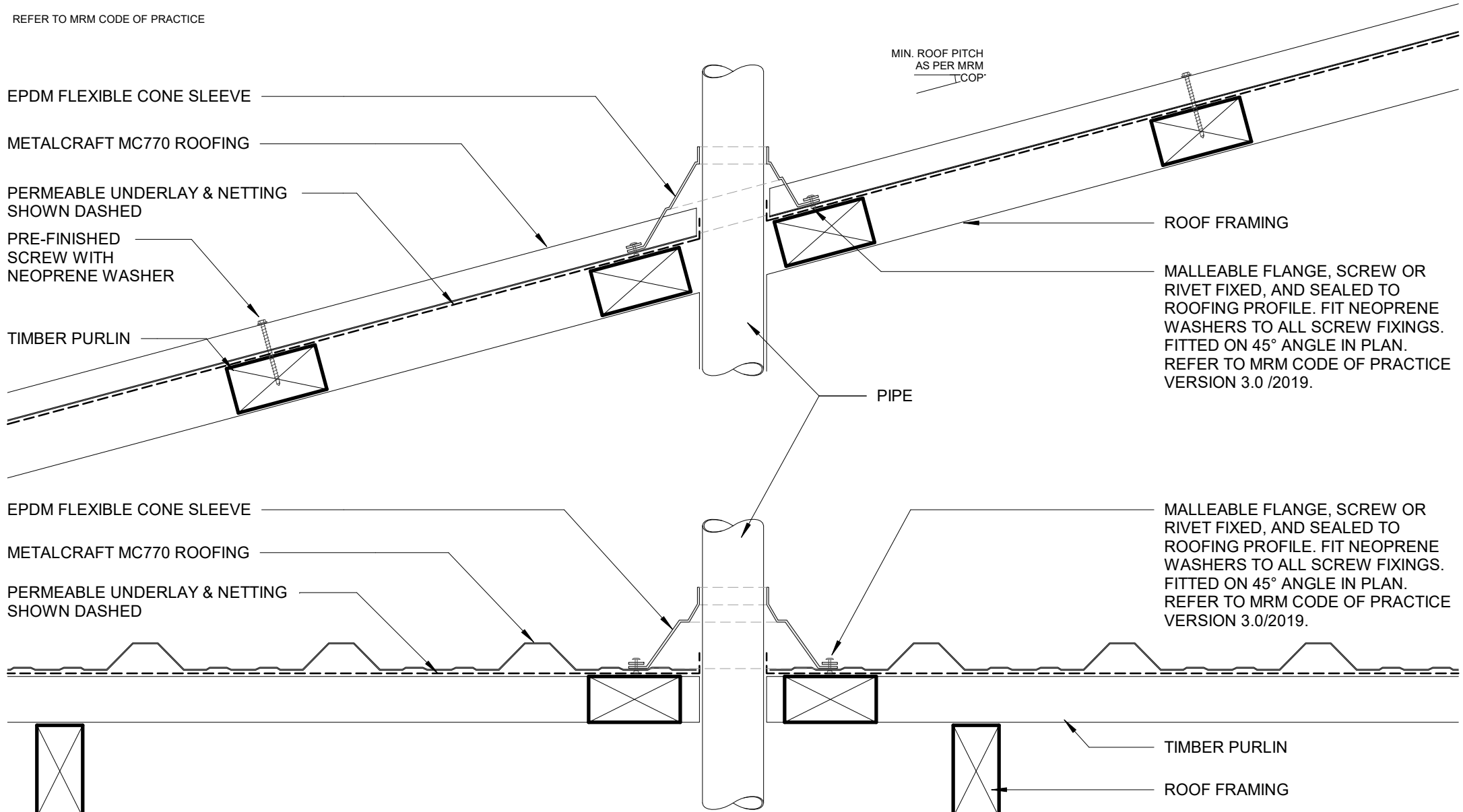


AS PER E2/ASI			
	SITUATION 1	SITUATION 2	SITUATION 3
	1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH $\geq 10^\circ$	1. ALL ROOF PITCHES IN VERY HIGH WIND ZONE 2. LOW, MEDIUM, AND HIGH WIND ZONES WHERE ROOF PITCH $\leq 10^\circ$	1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE
G	MIN. 35mm	MIN. 35mm	MIN. 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
	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 QR 75mm (VERTICALLY UP FACE - SMOOTH) MIN. 75mm + HEM QR 100mm (VERTICALLY UP FACE - PROFILED)	MIN. 75mm + HEM QR 100mm (VERTICALLY UP FACE - SMOOTH) MIN. 100mm + HEM QR 125mm (VERTICALLY UP FACE - PROFILED)
M	ONE RIB (TRAPEZOIDAL & TRAY) 2 CORRUGATIONS (KAHU)	TWO RIBS ($< 20\text{mm}$) (TRAPEZOIDAL & TRAY) 3 CORRUGATIONS (KAHU)

* MIN. 10° FOR PIPE PENETRATION. DIRECT FIX BOOT FLASHING IS APPLICABLE FOR WHEN LESS THAN 50% BLOCKAGE OCCURS. WHEN EXCEEDING 50% BLOCKAGE, REFER TO BACK TRAY BOOT FLASHING

REFER TO MRM CODE OF PRACTICE



PIPE PENETRATION DIRECT FIXED BOOT FLASHING

MC770

Rev. 1.0

RESIDENTIAL ROOFING

Reference RRM770

Date JAN 2023

Scale 1 : 5

Sheet **A 21 / 29**

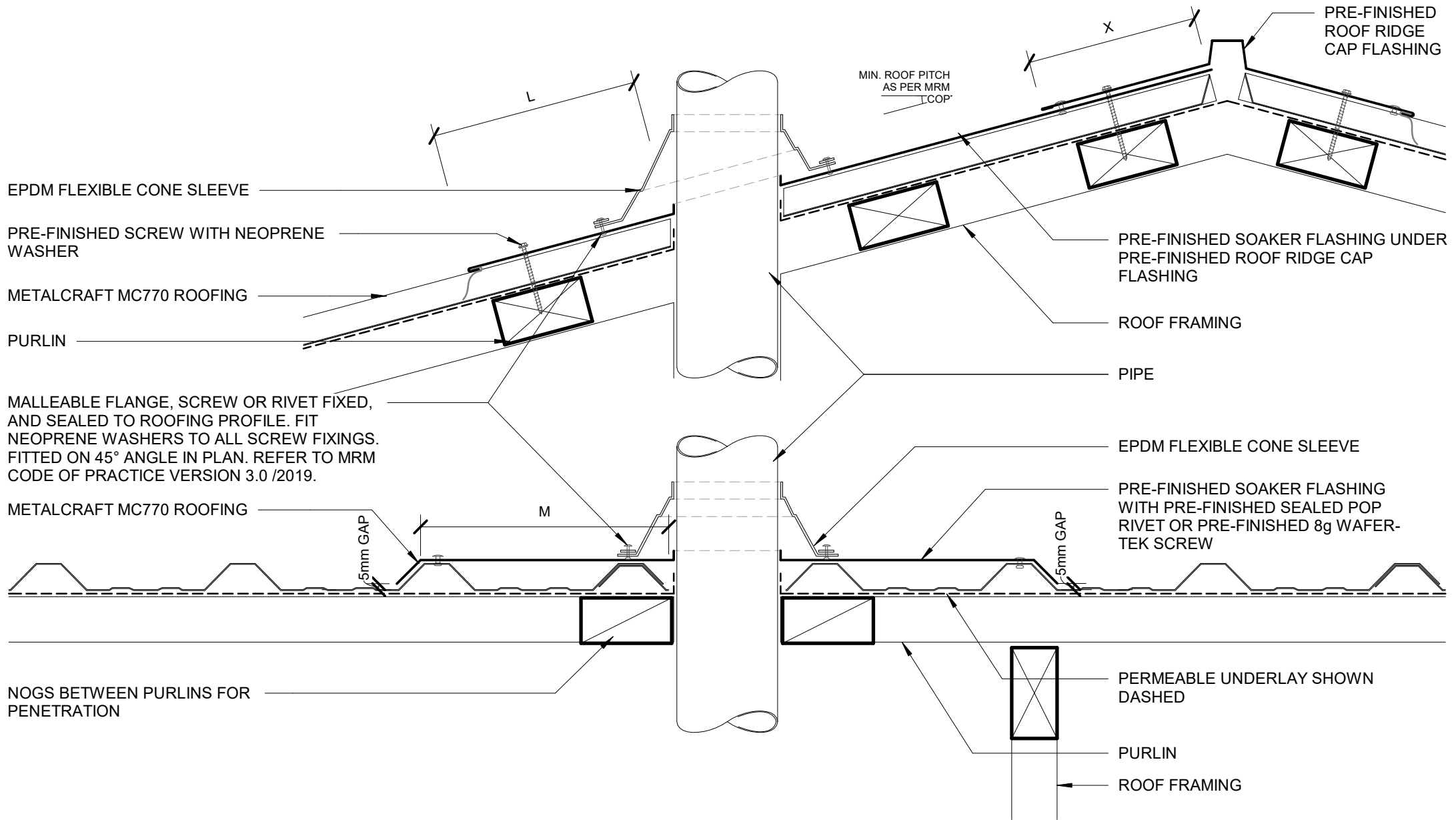
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Metalcraft
Roofing

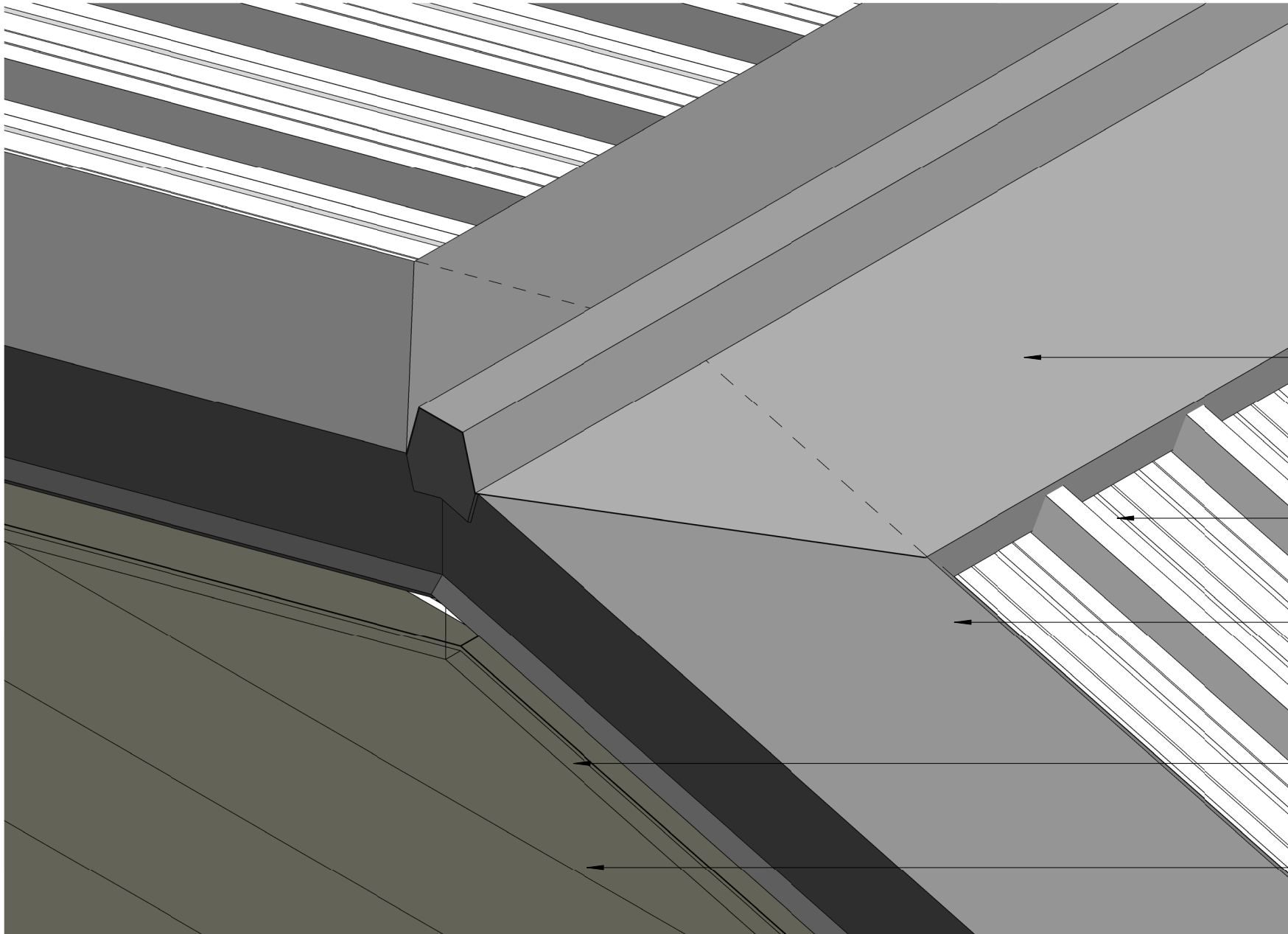
www.metalcraftgroup.co.nz

* MIN. 3° FOR PIPE PENETRATION WITH A BOOT

REFER MRM CODE OF PRACTICE



* PLEASE REFER TO MRM CODE OF PRACTICE VERSION 3.0/2019 AND RANZ HOW TO ON-SITE GUIDE METAL ROOF FLASHING FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.



- PRE-FINISHED RIDGE CAP FLASHING
- METALCRAFT MC770
- PRE-FINISHED BARGE FLASHING
- FASCIA BOARD
- WALL CLADDING ON CAVITY

PRE-FINISHED BARGE FLASHING

PRE-FINISHED HIP FLASHING

PRE-FINISHED APRON FLASHING

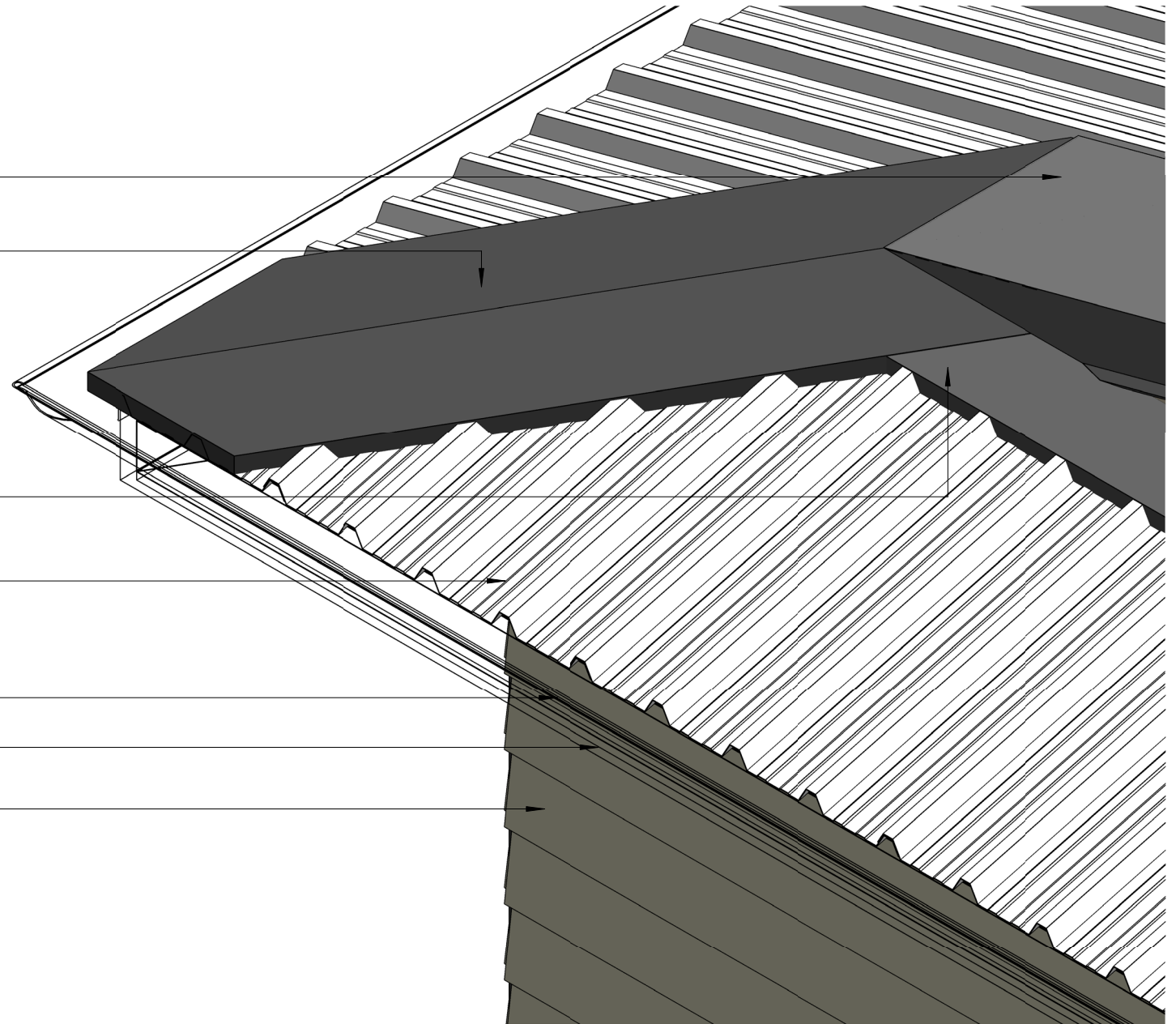
METALCRAFT MC770 ROOFING
TURN DOWN INTO GUTTER.
REFER TO EAVE DETAILS FOR
MINIMUM ROOF OVERHANG

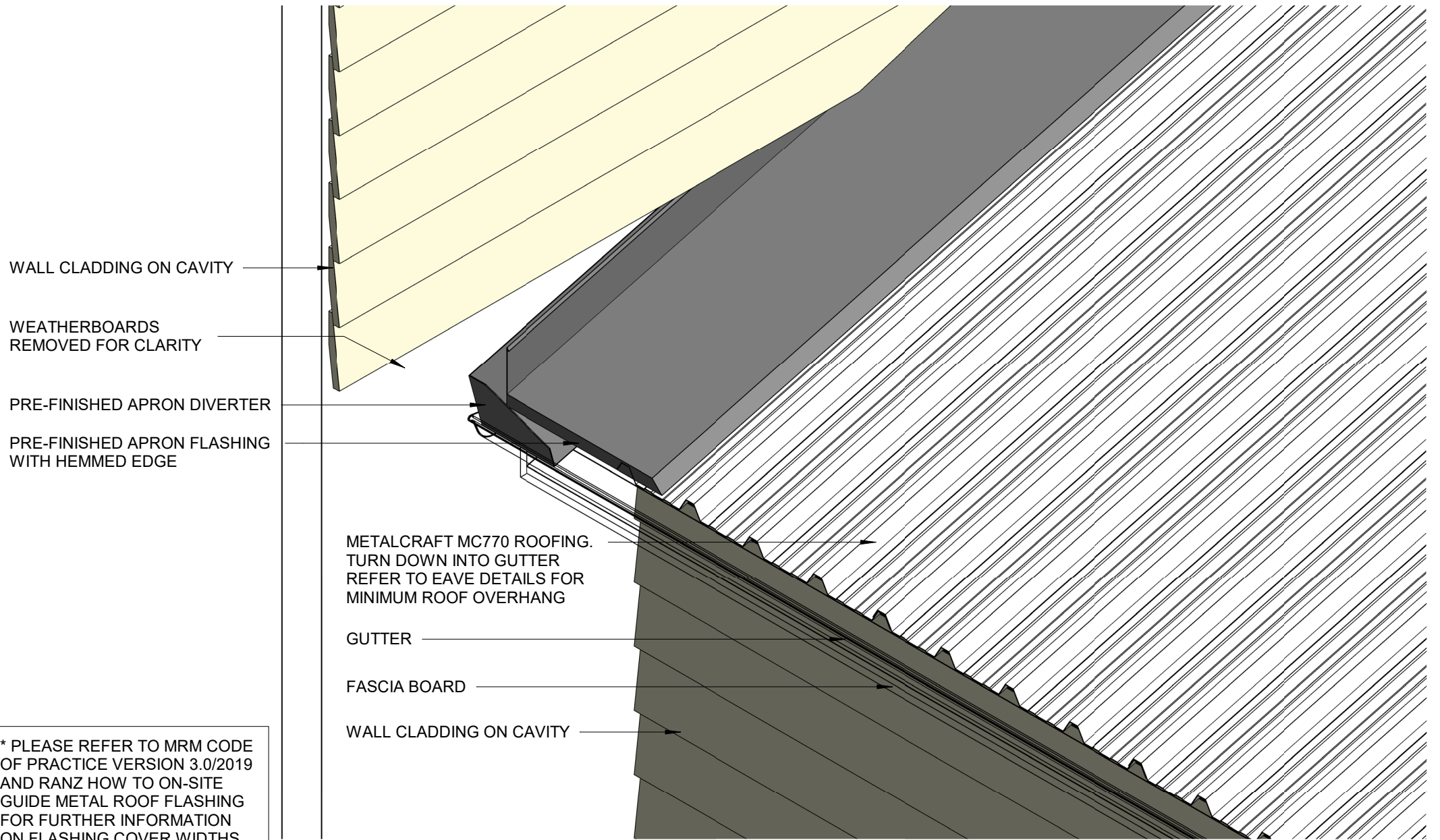
GUTTER

FASCIA BOARD

WALL CLADDING ON CAVITY

* PLEASE REFER TO MRM CODE OF PRACTICE VERSION 3.0/2019 AND RANZ HOW TO ON-SITE GUIDE METAL ROOF FLASHING FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.





WALL CLADDING ON CAVITY

WEATHERBOARDS
REMOVED FOR CLARITY

PRE-FINISHED APRON DIVERTER

PRE-FINISHED APRON FLASHING
WITH HEMMED EDGE

METALCRAFT MC770 ROOFING.
TURN DOWN INTO GUTTER
REFER TO EAVE DETAILS FOR
MINIMUM ROOF OVERHANG

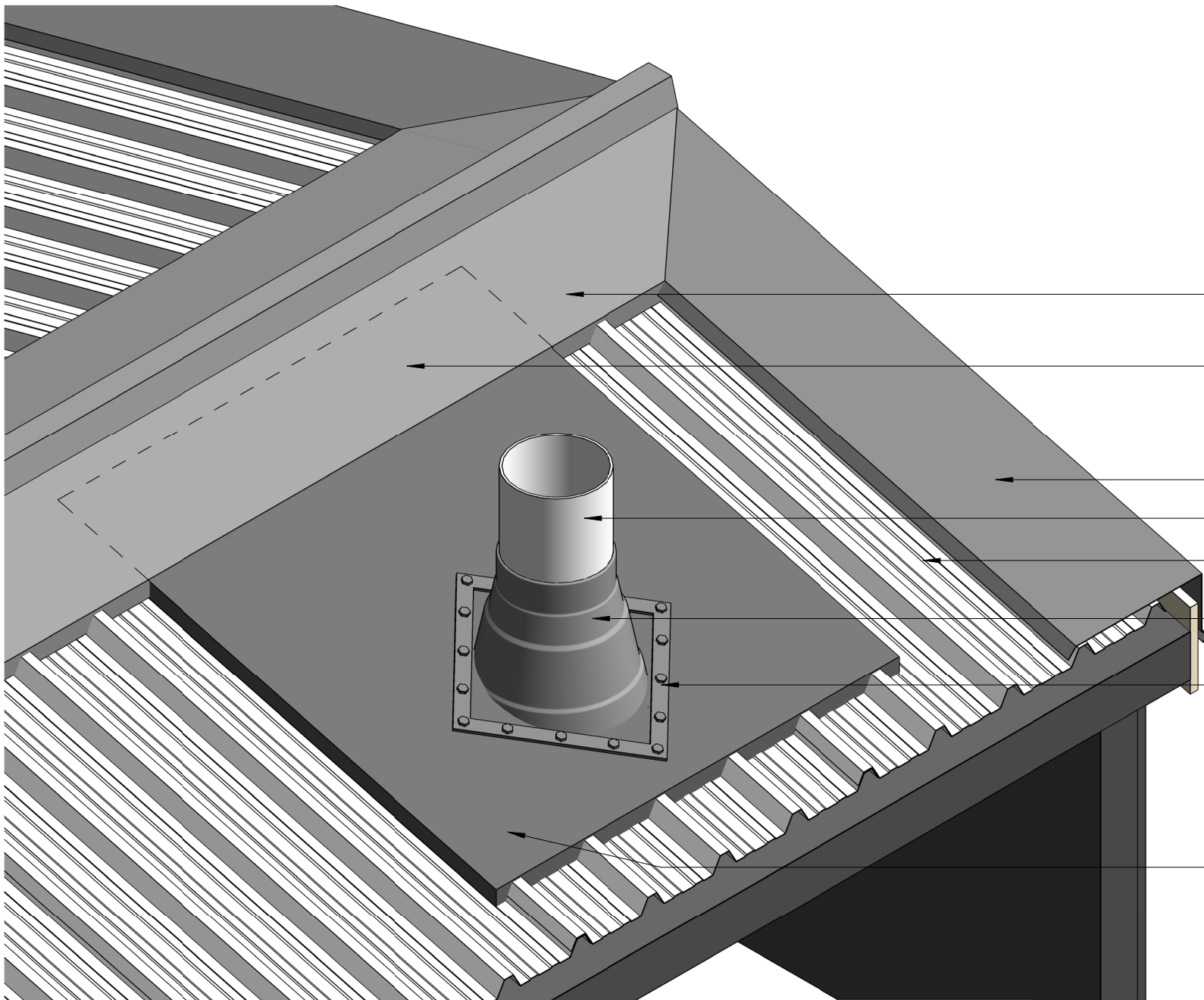
GUTTER

FASCIA BOARD

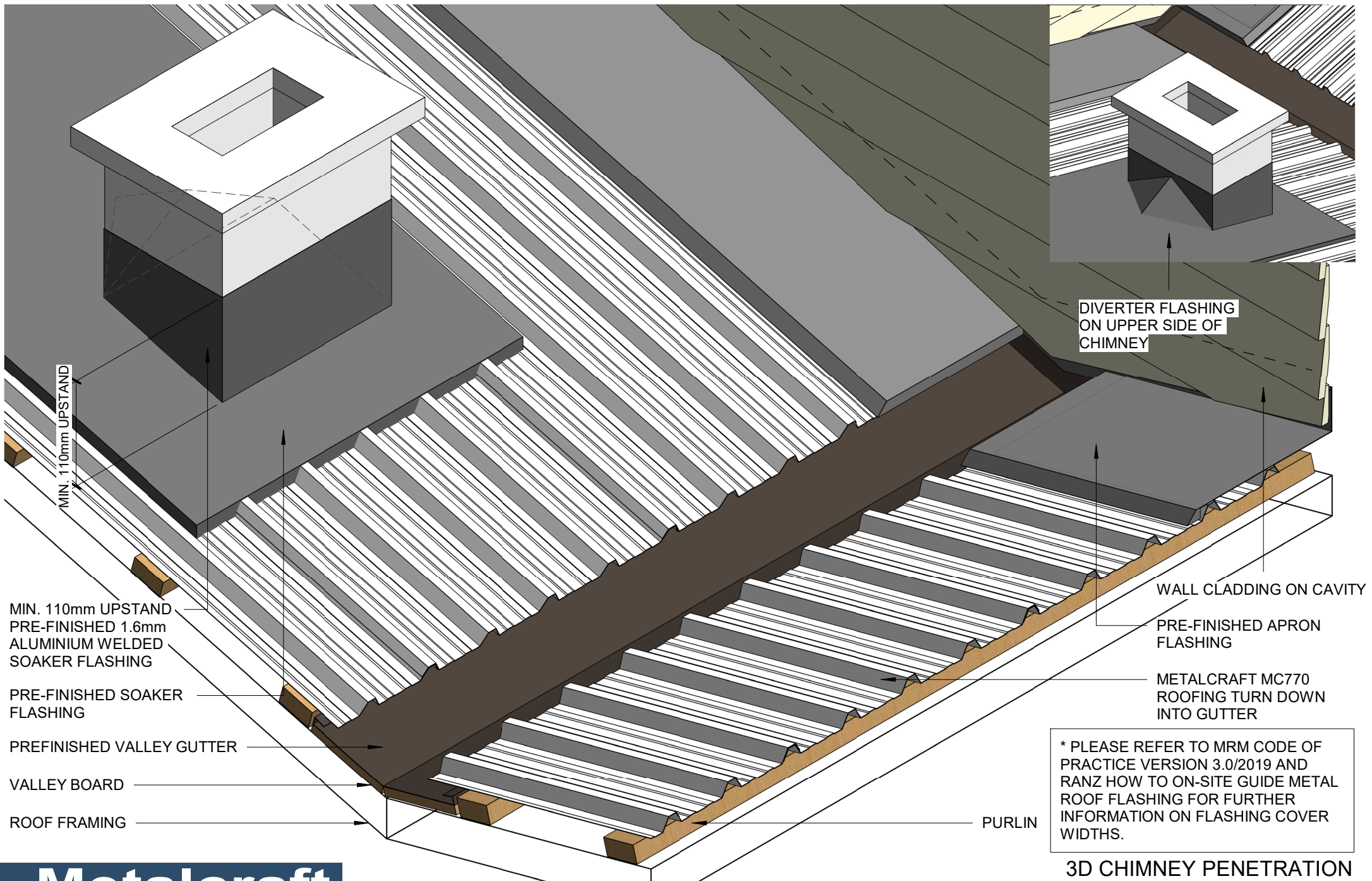
WALL CLADDING ON CAVITY

* PLEASE REFER TO MRM CODE
OF PRACTICE VERSION 3.0/2019
AND RANZ HOW TO ON-SITE
GUIDE METAL ROOF FLASHING
FOR FURTHER INFORMATION
ON FLASHING COVER WIDTHS.

* PLEASE REFER TO MRM CODE OF PRACTICE VERSION 3.0/2019 AND RANZ HOW TO ON-SITE GUIDE METAL ROOF FLASHING FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.



- PRE-FINISHED ROOF RIDGE FLASHING
- PRE-FINISHED SOAKER FLASHING LINE UNDER PRE-FINISHED ROOF RIDGE FLASHING
- PRE-FINISHED ROOF BARGE FLASHING
- PIPE
- METALCRAFT MC770 ROOFING
- EPDM FLEXIBLE CONE SLEEVE
- MALLEABLE FLANGE, SCREW OR RIVET FIXED, AND SEALED TO ROOFING PROFILE. FIT NEOPRENE WASHERS TO ALL SCREW FIXINGS. FITTED ON 45° ANGLE IN PLAN. REFER TO MRM CODE OF PRACTICE VERSION 3.0/2019
- PRE-FINISHED SOAKER FLASHING



MIN. 110mm UPSTAND
PRE-FINISHED 1.6mm
ALUMINIUM WELDED
SOAKER FLASHING

PRE-FINISHED SOAKER
FLASHING

PREFINISHED VALLEY GUTTER

VALLEY BOARD

ROOF FRAMING

DIVERTER FLASHING
ON UPPER SIDE OF
CHIMNEY

WALL CLADDING ON CAVITY

PRE-FINISHED APRON
FLASHING

METALCRAFT MC770
ROOFING TURN DOWN
INTO GUTTER

PURLIN

* PLEASE REFER TO MRM CODE OF PRACTICE VERSION 3.0/2019 AND RANZ HOW TO ON-SITE GUIDE METAL ROOF FLASHING FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.

Metalcraft
Roofing

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MC770

Rev. 1.0

Reference RRM770

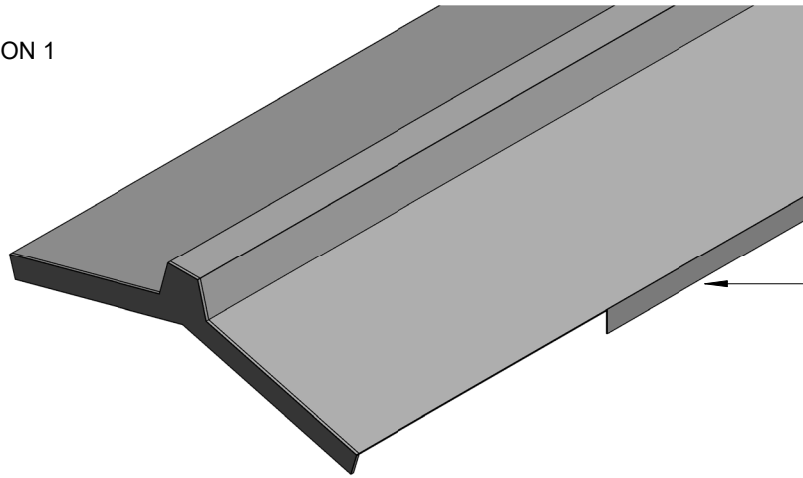
Date JAN 2023

3D CHIMNEY PENETRATION
RESIDENTIAL ROOFING

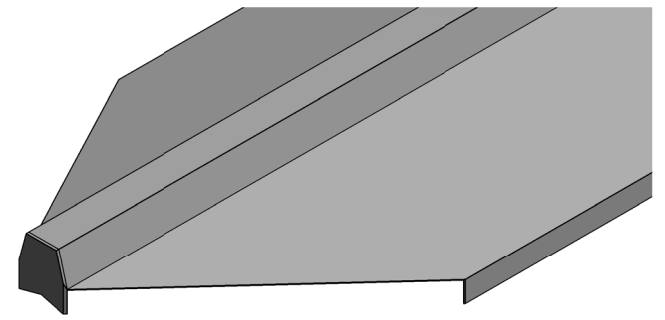
Scale

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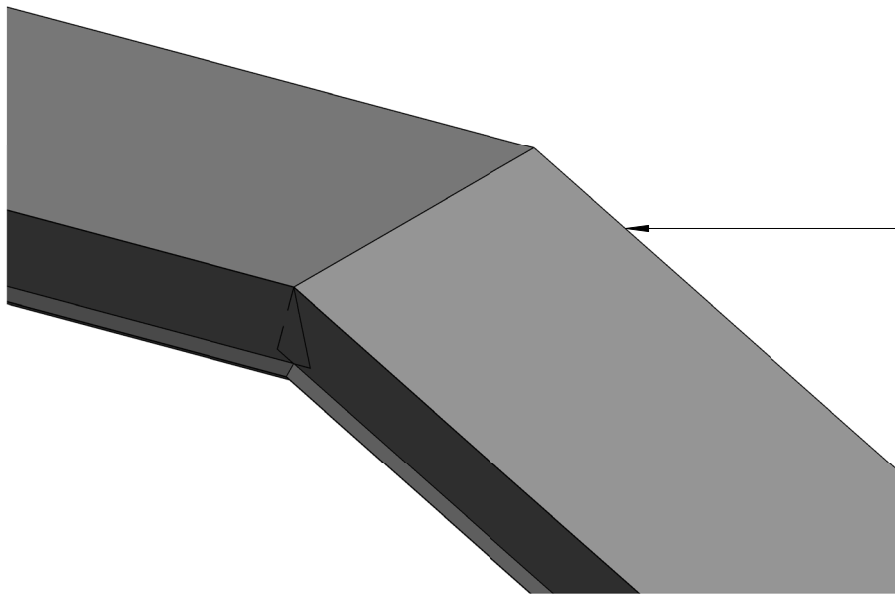
OPTION 1



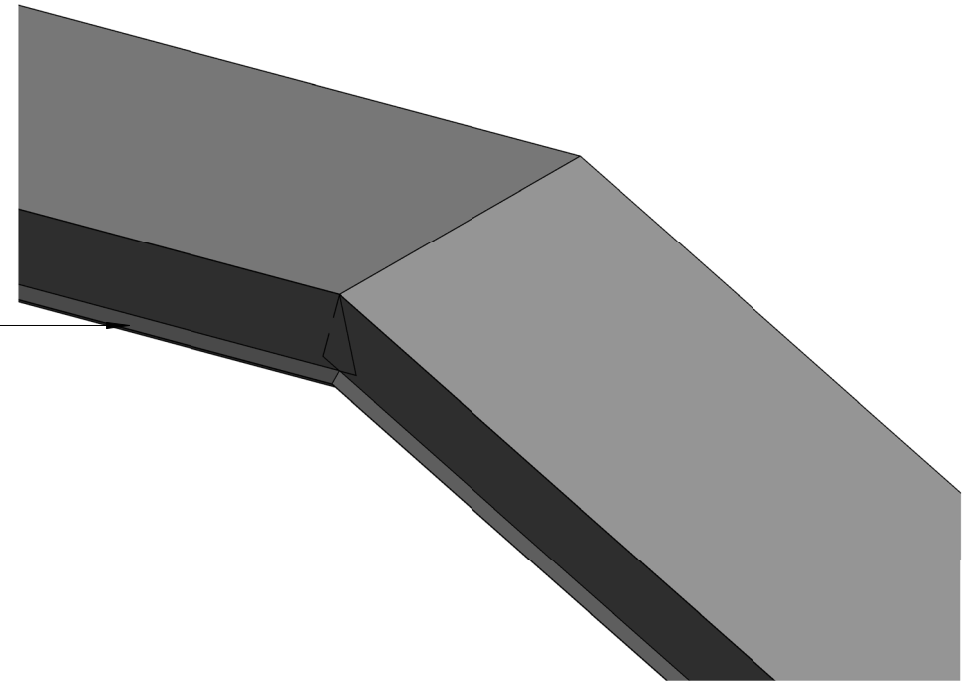
OPTION 2



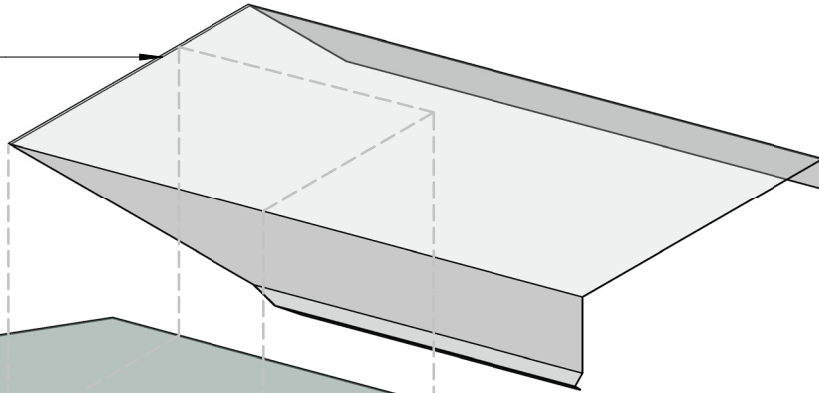
RIDGE CAP
FLASHING



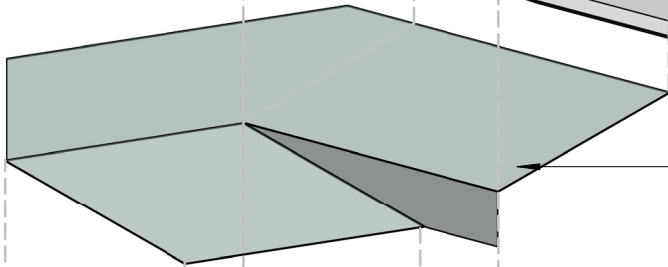
BARGE
FLASHING



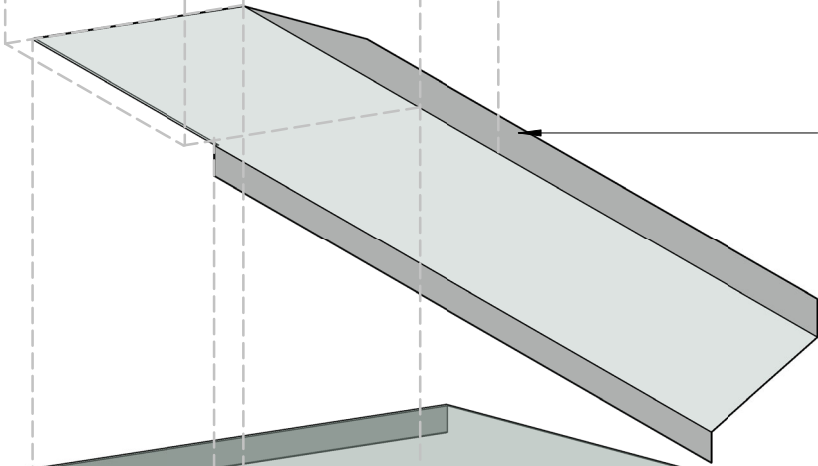
(4) PRE-FINISHED BARGE FLASHING



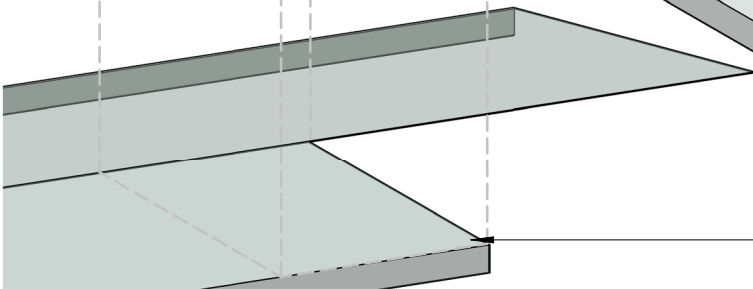
(3) PRE-FINISHED 3D SADDLE FLASHING



(2) PRE-FINISHED APRON FLASHING



(1) PRE-FINISHED HIP FLASHING



* PLEASE REFER TO MRM CODE OF PRACTICE VERSION 3.0/2019 AND RANZ HOW TO ON-SITE GUIDE METAL ROOF FLASHINGS FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.

