

MC760

RESIDENTIAL ROOFING

DETAIL LIST

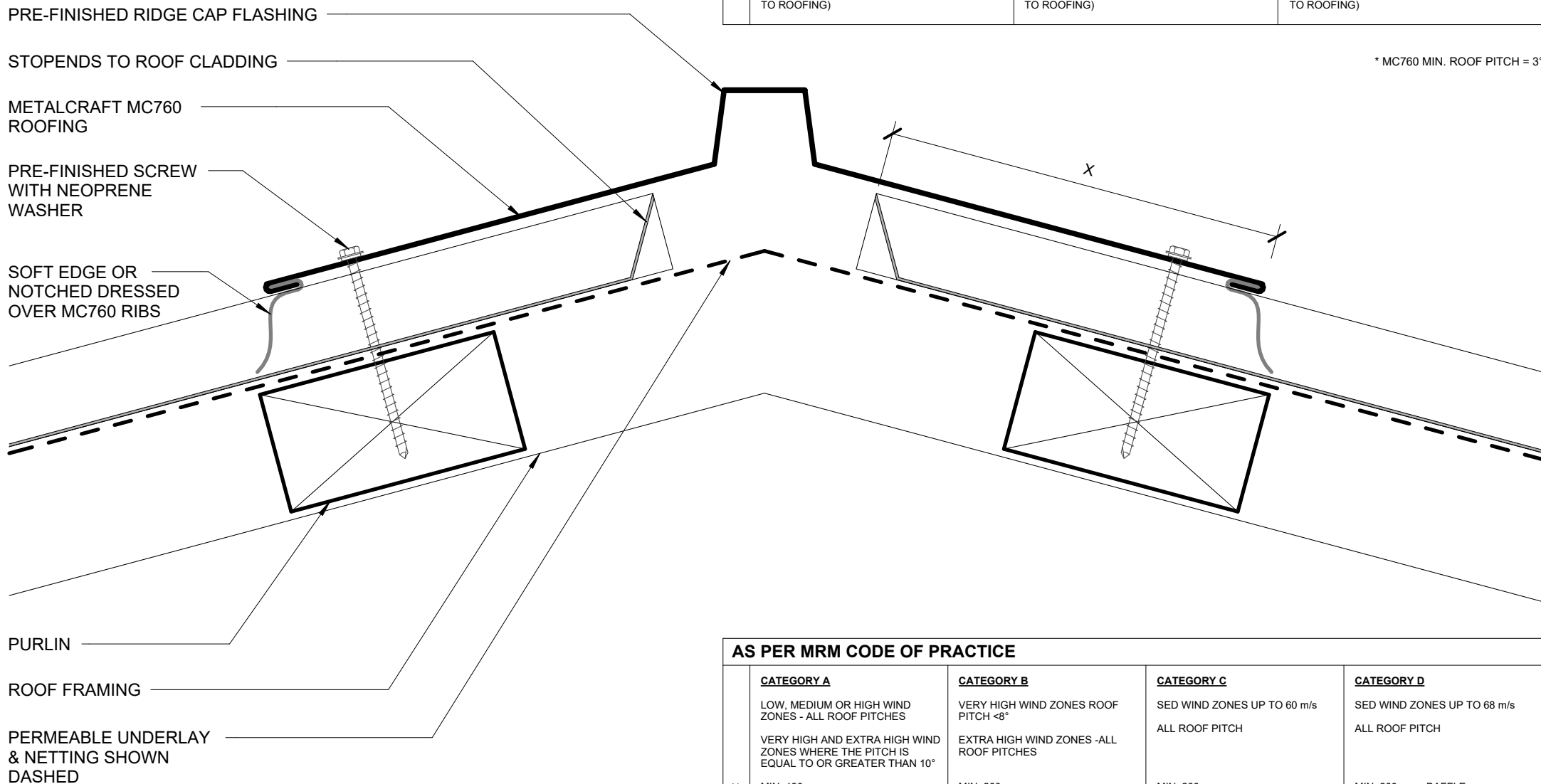
		<u>Revision</u>	<u>Date</u>
A 00 / 26	COVER SHEET		
A 01 / 26	ROOF RIDGE	3.0	SEP 2024
A 02 / 26	ROOF RIDGE (ROUND)	3.0	SEP 2024
A 03 / 26	SAWTOOTH RIDGE	3.0	SEP 2024
A 04 / 26	SAWTOOTH EAVE	3.0	SEP 2024
A 05 / 26	ROOF VALLEY	3.0	SEP 2024
A 06 / 26	ASYMMETRICAL ROOF VALLEY	3.0	SEP 2024
A 07 / 26	INTERNAL GUTTER	3.0	SEP 2024
A 08 / 26	PARALLEL HIDDEN GUTTER	3.0	SEP 2024
A 09 / 26	PARALLEL HIDDEN GUTTER (2 PART FLASHING)	3.0	SEP 2024
A 10 / 26	ROOF - CHANGE PITCH	3.0	SEP 2024
A 11 / 26	MANSARD	3.0	SEP 2024
A 12 / 26	EAVE WITH SNOW STRAP	3.0	SEP 2024
A 13 / 26	BARGE WITH NO SOFFIT	3.0	SEP 2024
A 14 / 26	BARGE WITH SOFFIT	3.0	SEP 2024

DETAIL LIST

		<u>Revision</u>	<u>Date</u>
A 15 / 26	PARARPET WITH TRANSVERSE APRON	3.0	SEP 2024
A 16 / 26	TRANSVERSE APRON	3.0	SEP 2024
A 17 / 26	PARALLEL APRON	3.0	SEP 2024
A 18 / 26	PIPE PENETRATION DIRECT FIXED BOOT FLASHING	3.0	SEP 2024
A 19 / 26	PIPE PENETRATION BACK TRAY BOOT FLASHING	3.0	SEP 2024
A 20 / 26	3D RIDGE TO BARGE JUNCTION	3.0	SEP 2024
A 21 / 26	3D DUTCH GABLE	3.0	SEP 2024
A 22 / 26	3D APRON	3.0	SEP 2024
A 23 / 26	BACK TRAY PENETRATION	3.0	SEP 2024
A 24 / 26	3D CHIMNEY PENETRATION	3.0	SEP 2024
A 25 / 26	3D RIDGE/BARGE FLASHINGS	3.0	SEP 2024
A 26 / 26	3D DUTCH GABLE FLASHINGS	3.0	SEP 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)



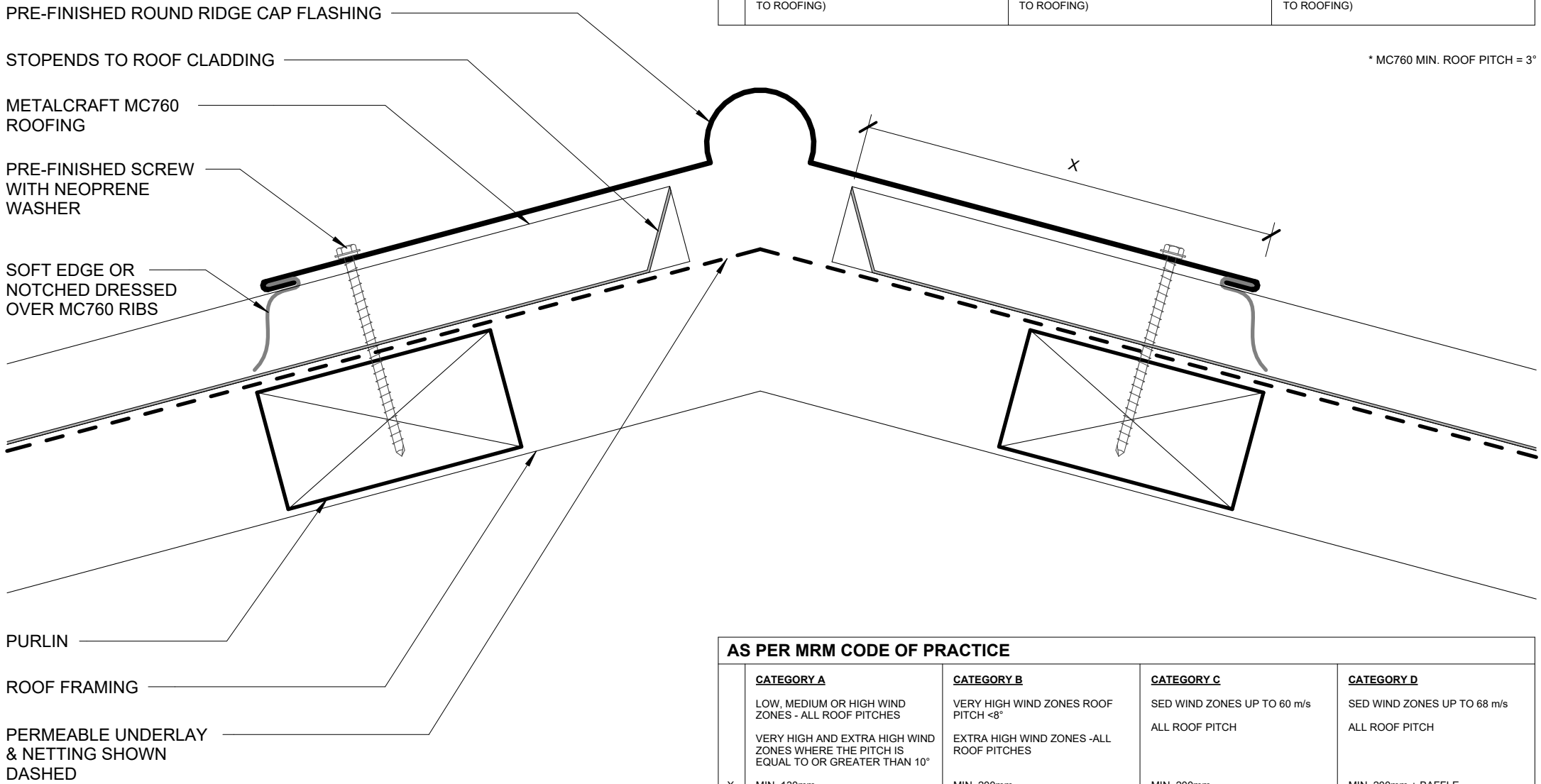
AS PER MRM CODE OF PRACTICE

	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

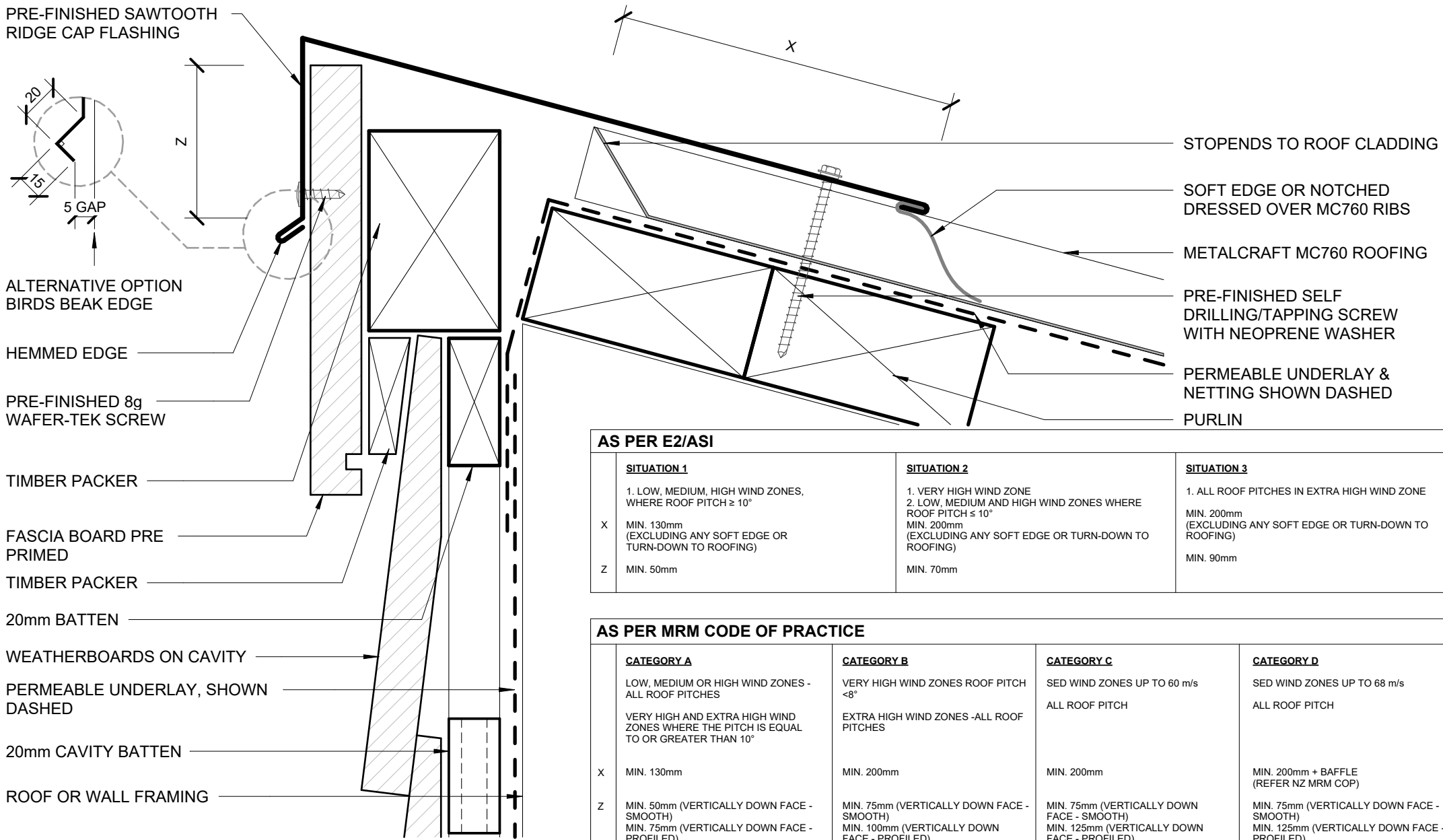
	SITUATION 1	SITUATION 2	SITUATION 3
	1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH $\geq 10^\circ$	1. VERY HIGH WIND ZONE 2. LOW, MEDIUM & HIGH WIND ZONES WHERE ROOF PITCH $\leq 10^\circ$	1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE.
X	MIN. 130mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)	MIN.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

* MC760 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
	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)

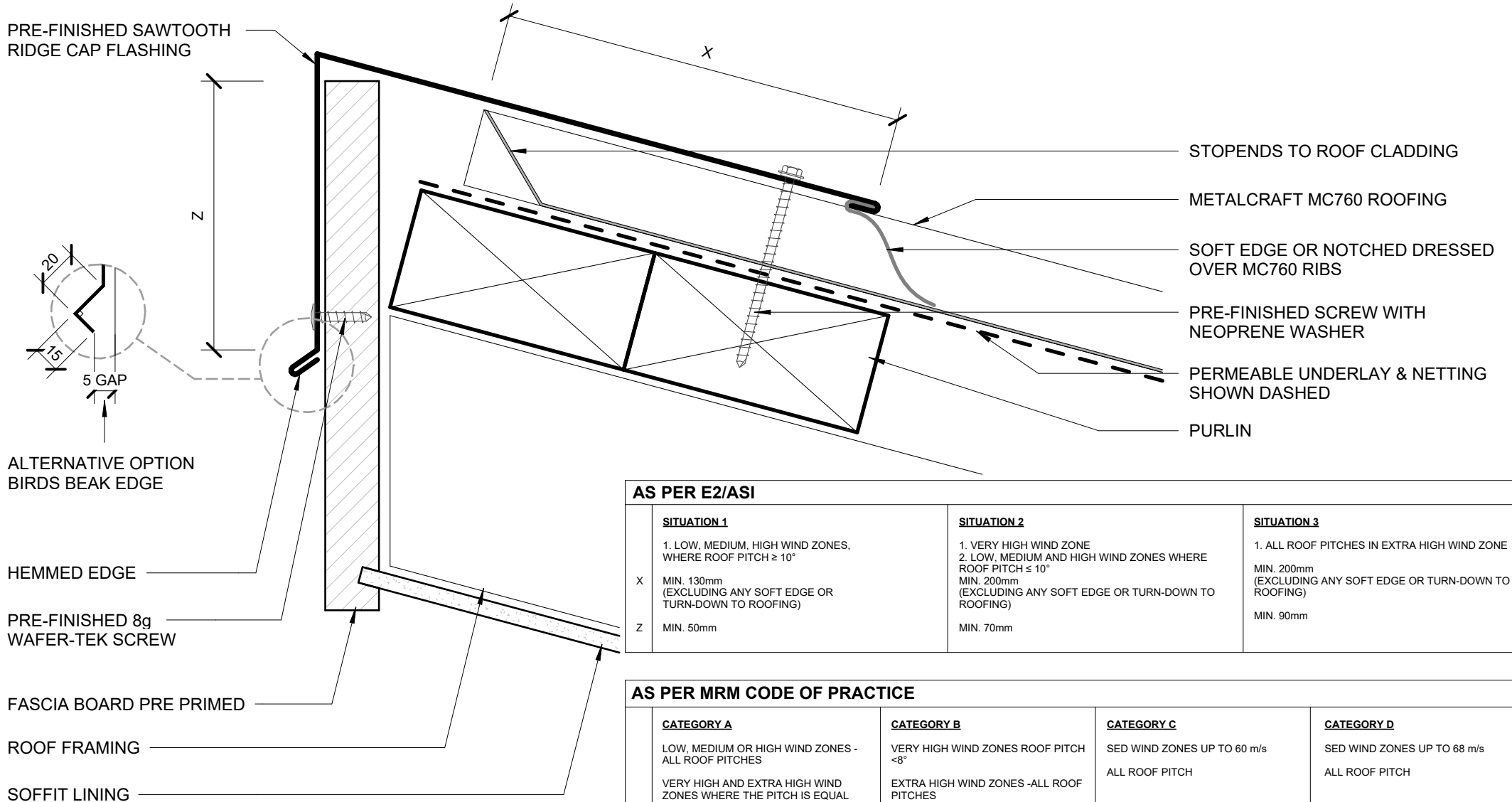


AS PER E2/ASI

	SITUATION 1	SITUATION 2	SITUATION 3
	1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH ≥ 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 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)



ALTERNATIVE OPTION
BIRDS BEAK EDGE

HEMMED EDGE

PRE-FINISHED 8g
WAFER-TEK SCREW

FASCIA BOARD PRE PRIMED

ROOF FRAMING

SOFFIT LINING

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	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	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)

VALLEYS =

20mm MINIMUM FREEBOARD
UP TO 8 DEGREE ROOF PITCH

15mm MINIMUM FREEBOARD
OVER 8 DEGREE ROOF PITCH

* MC760 MIN. ROOF PITCH = 3°

METALCRAFT MC760 ROOFING

PRE-FINISHED SCREW
WITH NEOPRENE
WASHER

OVERALL VALLEY GUTTER WIDTH MIN. 250mm

CLEARANCE BETWEEN ROOFING 50mm MIN.

MIN. 80mm

MIN. 80mm

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

VALLEY RAFTER

FREEBOARD

AS PER MRM CODE OF PRACTICE

1. NZMRM ALLOWS FOR CUSTOM GUTTER DESIGN.
2. THE ARCHITECT OR DESIGNER MUST SATISFY THEMSELVES WITH THE CORRECT VALLEY DESIGN FOR THEIR PROJECTS AND REFER TO THE NZMRM CODE OF PRACTICE FOR THE VALLEY CAPACITY CALCULATION TOOL AND ALTERNATIVE SOLUTIONS FOR PITCHES DOWN TO THAT OF THE ALLOWABLE PITCH OF THE SELECTED ROOFING PROFILE.
3. INTERNAL ANGLES OF VALLEYS AS PER NZMRM CODE OF PRACTICE.
4. VALLEYS MUST INCORPORATE ALLOWANCE FOR FREEBOARD AND FOR PITCHES UP TO 8 DEGREES A MINIMUM FREEBOARD REQUIREMENT OF 20mm IS REQUIRED. FOR PITCHES GREATER THAN 8 DEGREES A FREEBOARD OF 15mm IS REQUIRED.
5. REFER NZMRM CODE OF PRACTICE FOR MORE INFORMATION ON VALLEY DESIGNS.

AS PER E2/AS1

1. THE ARCHITECT OR DESIGNER CAN CHOOSE TO DESIGN IN ACCORDANCE WITH E2/AS1.

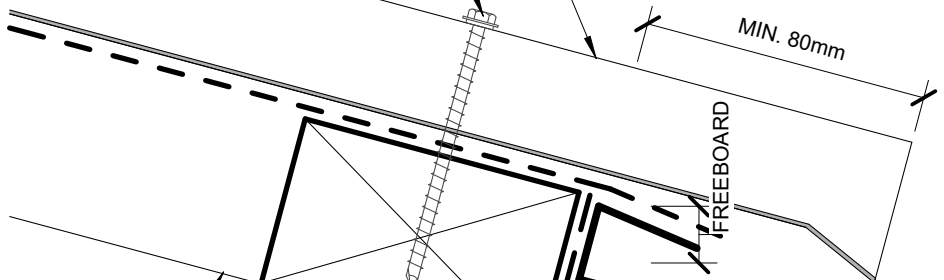
* MC760 MIN. ROOF PITCH = 3°

METALCRAFT MC760 ROOFING

PRE-FINISHED SCREW WITH NEOPRENE WASHER

WHERE OPPOSING ROOFS OF DIFFERENT PITCHES DISCHARGE INTO A VALLEY, AN ASYMMETRICAL VALLEY IS REQUIRED.

A VALLEY BAFFLE IS RECOMMENDED WHERE THE DIFFERENCE IN ROOF PITCHES EXCEEDS 10°.



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

VALLEY RAFTER

MIN. 80mm

MIN. 80mm

FREEBOARD

VALLEYS =
20mm MINIMUM FREEBOARD UP TO 8 DEGREE ROOF PITCH
15mm MINIMUM FREEBOARD OVER 8 DEGREE ROOF PITCH

AS PER MRM CODE OF PRACTICE

1. NZMRM ALLOWS FOR CUSTOM ASYMMETRICAL GUTTER DESIGN.
2. THE ARCHITECT OR DESIGNER MUST SATISFY THEMSELVES WITH THE CORRECT VALLEY DESIGN FOR THEIR PROJECTS AND REFER TO THE NZMRM CODE OF PRACTICE FOR ASYMMETRICAL VALLEY CAPACITY CALCULATION TOOL AND ALTERNATIVE SOLUTIONS FOR PITCHES DOWN TO THAT OF THE ALLOWABLE PITCH OF THE SELECTED ROOFING PROFILE.
3. INTERNAL ANGLES OF VALLEYS AS PER NZMRM CODE OF PRACTICE.
4. ASYMMETRICAL VALLEYS MUST INCORPORATE ALLOWANCE FOR FREEBOARD AND FOR PITCHES UP TO 8 DEGREES A MINIMUM FREEBOARD REQUIREMENT OF 20mm IS REQUIRED. FOR PITCHES GREATER THAN 8 DEGREES A FREEBOARD OF 15mm IS REQUIRED.
5. REFER NZMRM CODE OF PRACTICE FOR MORE INFORMATION ON ASYMMETRICAL VALLEY DESIGNS.

AS PER E2/AS1

1. THE ARCHITECT OR DESIGNER CAN CHOOSE TO DESIGN IN ACCORDANCE WITH E2/AS1.

- FOR 8° DEGREES OR LOWER USE INTERNAL GUTTER DETAIL

Metalcraft
Roofing
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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.

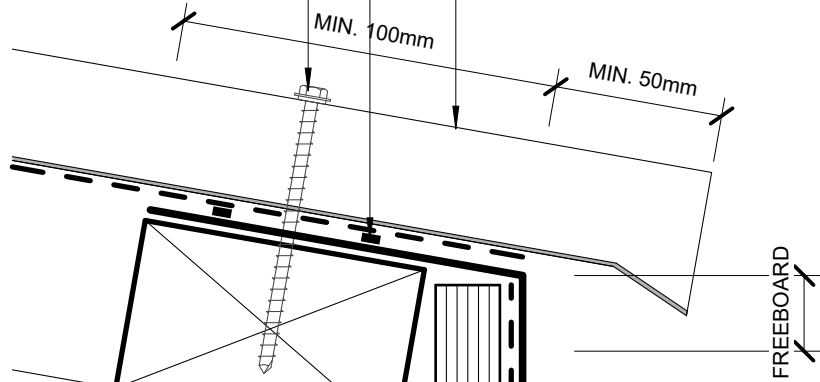
ASYMMETRICAL ROOF VALLEY
RESIDENTIAL ROOFING

MC760 Rev. 3.0 Reference RRM760 Date SEP 2024 Scale 1 : 2 Sheet **A 06 / 26**

METALCRAFT MC760 ROOFING

SEPARATION OF BUTYL GUTTER AND METAL ROOFING WITH LAP SEAL TAPE

PRE-FINISHED SCREW WITH NEOPRENE WASHER



PURLIN

ROOF FRAMING

TIMBER FILLET

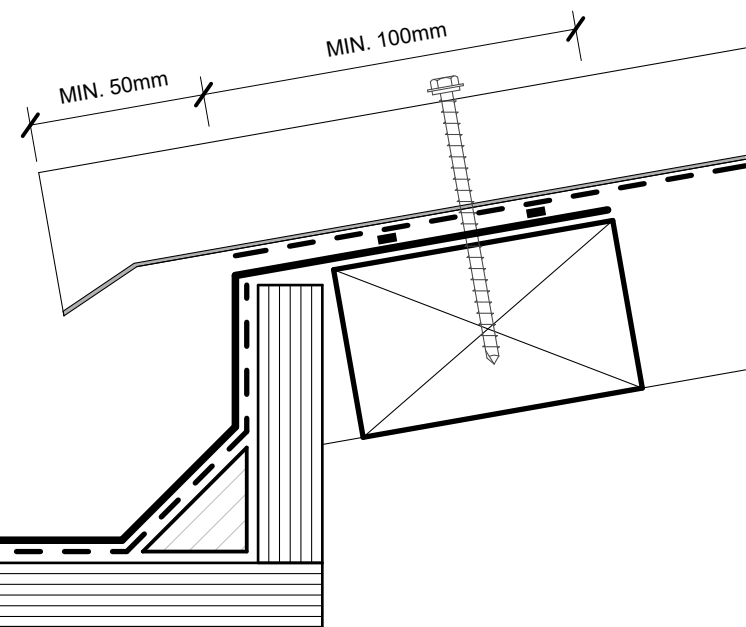
GUTTER BOARD

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

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

VALLEY RAFTER

FREEBOARD

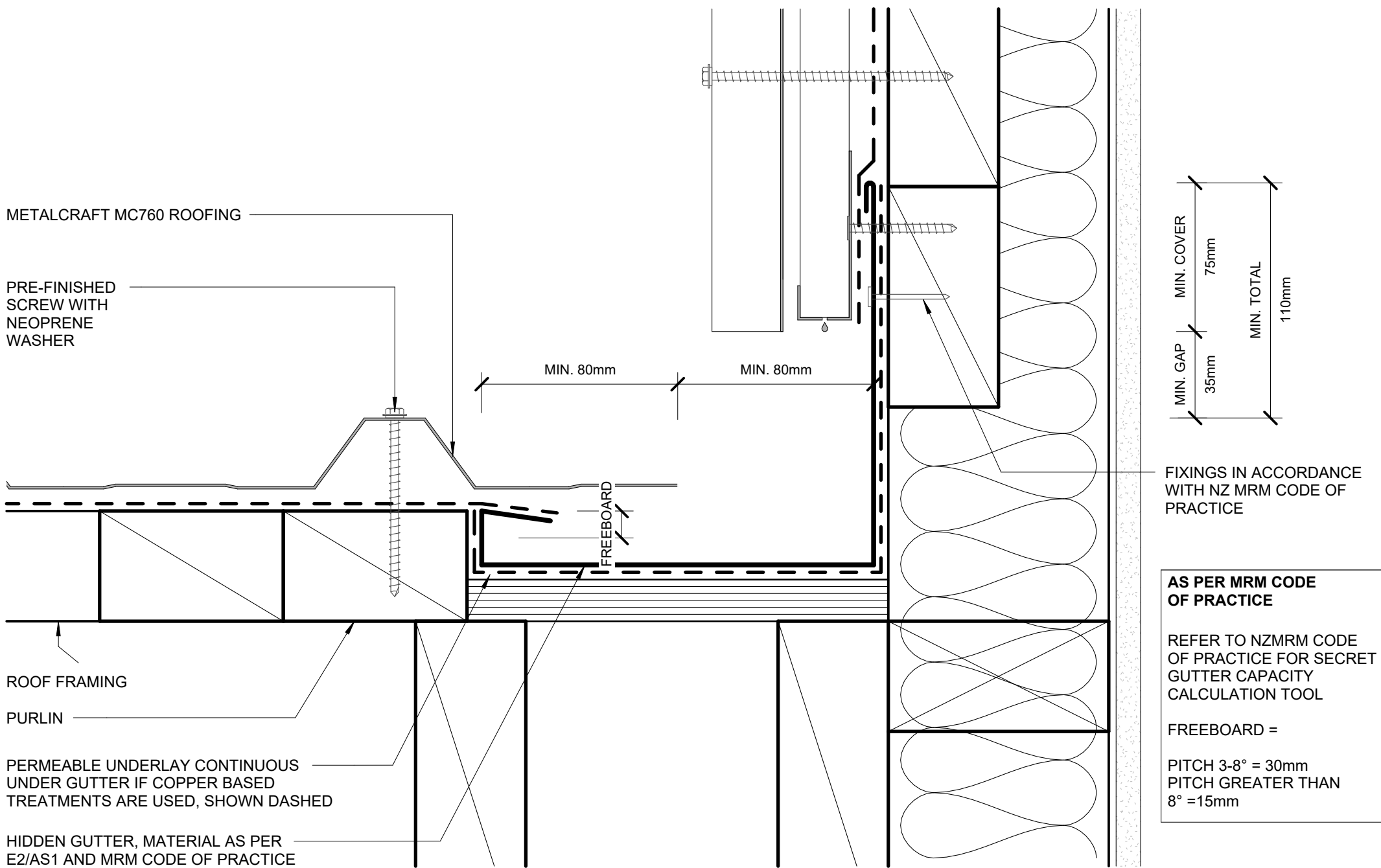


AS PER MRM CODE OF PRACTICE

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.



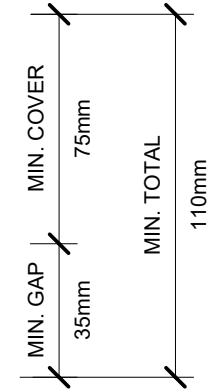
METALCRAFT MC760 ROOFING

PRE-FINISHED SCREW WITH NEOPRENE WASHER

MIN. 80mm

MIN. 80mm

FREEBOARD



FIXINGS IN ACCORDANCE WITH NZ MRM CODE OF PRACTICE

AS PER MRM CODE OF PRACTICE

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

FREEBOARD =

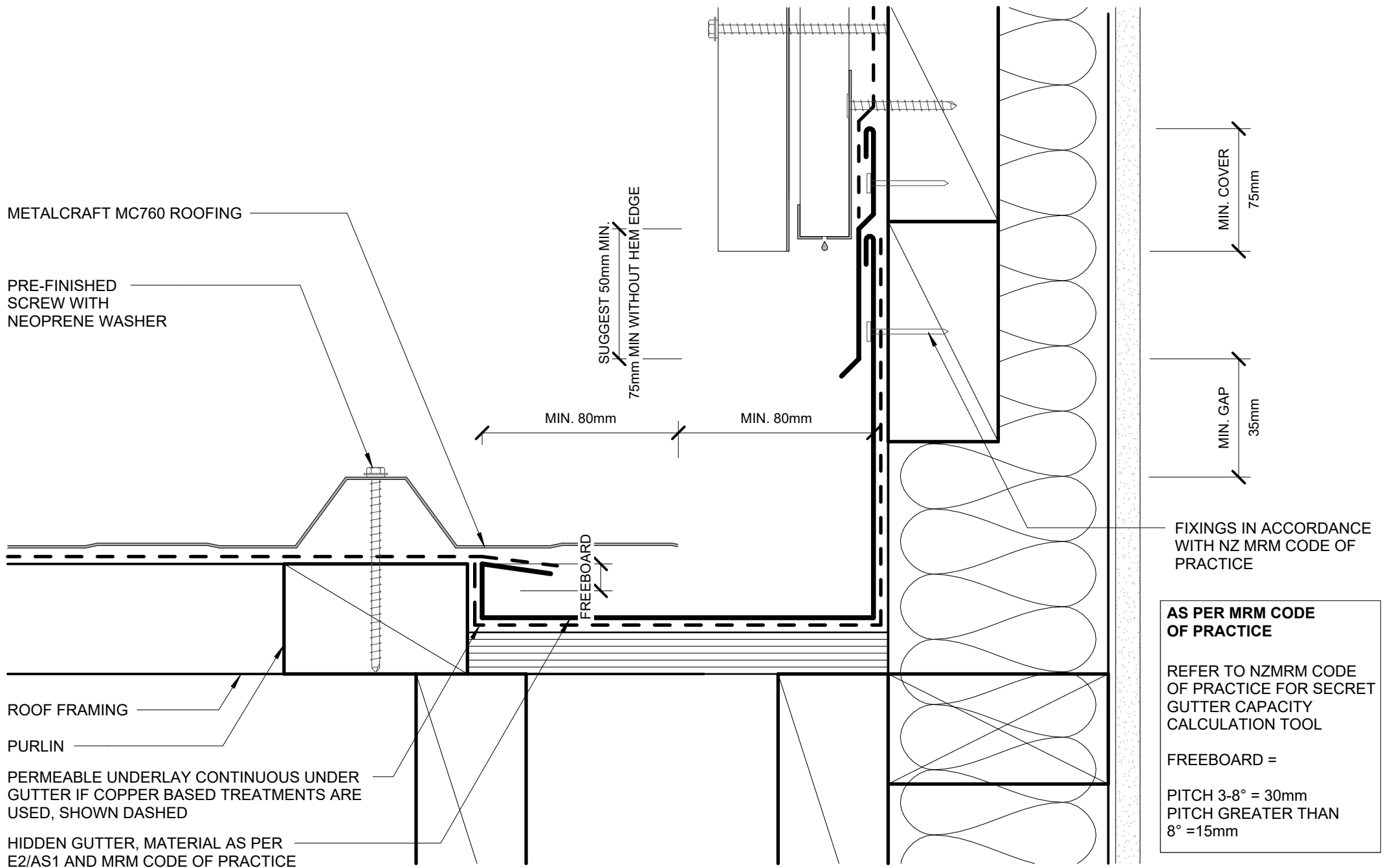
PITCH 3-8° = 30mm
PITCH GREATER THAN 8° = 15mm

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



METALCRAFT MC760 ROOFING

PRE-FINISHED
SCREW WITH
NEOPRENE WASHER

SUGGEST 50mm MIN.
75mm MIN WITHOUT HEM EDGE

MIN. 80mm

MIN. 80mm

FREEBOARD

MIN. COVER
75mm

MIN. GAP
35mm

FIXINGS IN ACCORDANCE
WITH NZ MRM CODE OF
PRACTICE

**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

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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Roofing

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MC760

Rev. 3.0

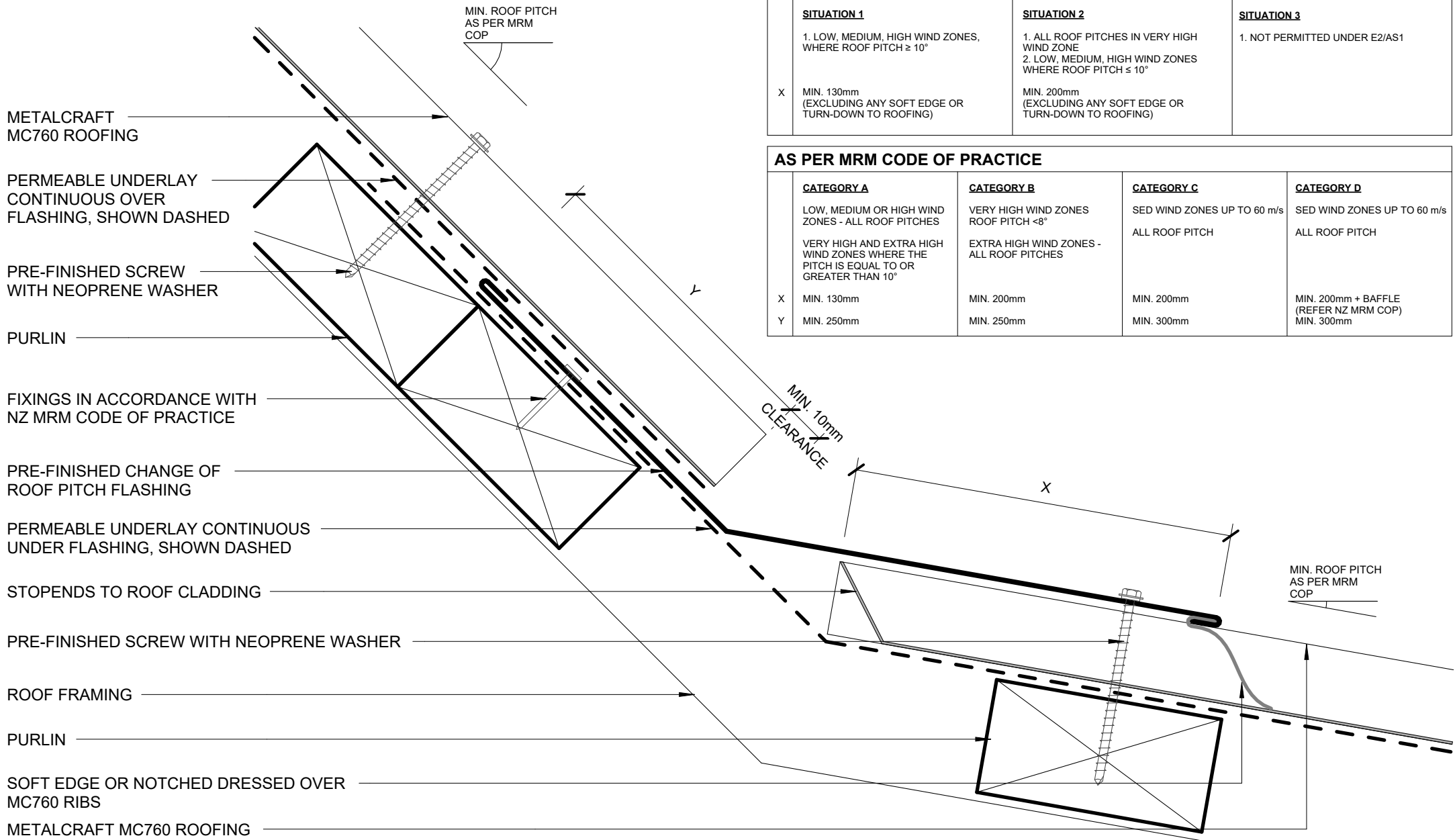
RESIDENTIAL ROOFING

Reference RRM760

Date SEP 2024

Scale 1 : 2

Sheet **A 09 / 26**



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, 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	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 60 m/s ALL ROOF PITCH
X MIN. 130mm Y MIN. 250mm	MIN. 200mm MIN. 250mm	MIN. 200mm MIN. 300mm	MIN. 200mm + BAFFLE (REFER NZ MRM COP) MIN. 300mm

METALCRAFT
MC760 ROOFING

FIXINGS IN ACCORDANCE
WITH NZ 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 NOTCHD DRESSED OVER
CORRUGATE RIBS

METALCRAFT MC760 ROOFING

MIN. ROOF PITCH
AS PER MRM
COP

Y

50mm MIN

MIN. ROOF PITCH
AS PER 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. 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	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 60 m/s ALL ROOF PITCH
X	MIN. 130mm	MIN. 200mm	MIN. 200mm	MIN. 200mm + BAFFLE (REFER NZ MRM COP)
Y	MIN. 250mm	MIN. 250mm	MIN. 300mm	MIN. 300mm

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

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

10-35° = 50mm

$>35^\circ$ = 40mm

MIN. 125 mm

MIN. ROOF PITCH AS PER MRM COP

METALCRAFT MC760 ROOFING

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

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

SNOW STRAP AS REQUIRED

METALCRAFT COLONIAL QUAD GUTTER

METALCRAFT COLONIAL QUAD GUTTER WITH INTERNAL BRACKET

PRE-FINISHED 8g WAFER-TEK SCREW

TIMBER FASCIA

MIN 35mm OVERLAP

*OVERFLOW

MIN. 10mm

PRE-FINISHED SCREW WITH NEOPRENE WASHER

PRE-FINISHED EAVE FLASHING CUT BACK AROUND INTERNAL GUTTER BRACKETS IF REQUIRED

TIMBER PURLIN

FIXINGS IN ACCORDANCE WITH NZ MRM CODE OF PRACTICE

TIMBER ROOF FRAMING

SOFFIT LINING

UNDERSOAKER FLASHING REQUIRED FOR NZ MRM COP CATEGORY D ONLY

PRE-FINISHED BARGE FLASHING

PRE-FINISHED 8g WAFER-TEK SCREW

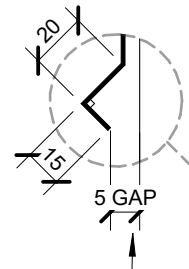
FLASHING SHOULD NOT EXCEED 300mm. A TURNED UP PAN EDGE TO FULL CREST HEIGHT (RIB) CONSTITUTES A CREST.

PRE-FINISHED SCREW WITH NEOPRENE WASHER

METALCRAFT MC760 ROOFING

PERMEABLE UNDERLAY & NETTING SHOWN DASHED

PURLIN



ALTERNATIVE OPTION BIRDS BEAK EDGE

HEMMED EDGE

TIMBER PACKER

ROOF FRAMING

BARGE BOARD PRE PRIMED

TIMBER PACKER

WEATHERBOARDS ON CAVITY

20mm BATTEN

20mm CAVITY BATTEN

PERMEABLE UNDERLAY, 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.
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 ($>34mm$)* CORRUGATE: 2 CORRUGATIONS	TRAPEZOIDAL & TRAY: TWO RIBS (20mm - 34mm)* ONE RIB ($>34mm$)* CORRUGATE: 3 CORRUGATIONS	TRAPEZOIDAL & TRAY: TWO RIBS (20mm - 34mm)* + UNDERSOAKER ONE RIB ($>34mm$)* + 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

UNDERSOAKER
FLASHING REQUIRED
FOR NZ MRM COP
CATEGORY D ONLY

PRE-FINISHED 8g
WAFER-TEK SCREW

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

PRE-FINISHED BARGE FLASHING

METALCRAFT MC760 ROOFING

PERMEABLE UNDERLAY & NETTING
SHOWN DASHED

PRE-FINISHED SCREW WITH
NEOPRENE WASHER

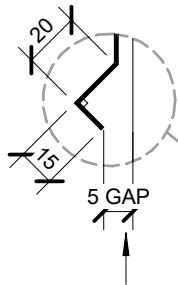
X

5-10MM

5mm GAP

PURLIN

Z



ALTERNATIVE
OPTION
BIRDS BEAK EDGE

HEMMED EDGE

FLY RAFTER

BARGE BOARD PRE
PRIMED

SOFFIT LINING

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	TRAPEZOIDAL & TRAY: ONE RIB	TRAPEZOIDAL & TRAY: TWO RIBS (20mm - 34mm)* ONE RIB ($> 34mm$)*	TRAPEZOIDAL & TRAY: TWO RIBS (20mm - 34mm)* ONE RIB ($> 34mm$)*	TRAPEZOIDAL & TRAY: TWO RIBS (20mm - 34mm)* + UNDERSOAKER ONE RIB ($> 34mm$)* + UNDERSOAKER
	CORRUGATE: 2 CORRUGATIONS	CORRUGATE: 2 CORRUGATIONS	CORRUGATE: 3 CORRUGATIONS	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

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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.

MC760

Rev. 3.0

Reference RRM760

Date SEP 2024

Scale 1 : 2

BARGE WITH SOFFIT
RESIDENTIAL ROOFING

Sheet **A 14 / 26**

DPC TO PROVIDE SEPARATION OF METAL CAPPING AND TIMBER, SHOWN DASHED

CONTINUOUS TIMBER PACKING

PRE-FINISHED PARAPET CAP FLASHING

TIMBER PACKER

PRE-FINISHED 8g WAFER-TEK SCREW

FIXINGS IN ACCORDANCE WITH NZ MRM CODE OF PRACTICE

PRE-FINISHED SELF DRILLING / TAPPING SCREW WITH NEOPRENE WASHER

BARGE BOARD PRE PRIMED

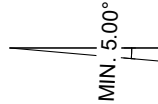
TIMBER PACKER

WEATHERBOARDS ON CAVITY

20mm CAVITY BATTEN

PERMEABLE UNDERLAY, SHOWN DASHED

WALL FRAMING



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	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
G	25mm	25mm	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)	MIN. 100mm + HEM QR 125mm (VERTICALLY UP FACE - SMOOTH) MIN. 125mm + HEM (VERTICALLY UP FACE - PROFILED)	MIN. 100mm + HEM QR 125mm (VERTICALLY UP FACE - SMOOTH) MIN. 125mm + HEM (VERTICALLY UP FACE - PROFILED)
L	MIN. 130mm	MIN. 200mm	MIN. 200mm + BAFFLE (REFER NZ MRM COP)	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. 100mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 125mm (VERTICALLY DOWN FACE - PROFILED)	MIN. 100mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 125mm (VERTICALLY DOWN FACE - PROFILED)

20mm BATTEN

TIMBER NOG FOR FIXING APRON FLASHING

STOPENDS TO ROOF CLADDING

TIMBER PURLIN

ROOF FRAMING

MIN. ROOF PITCH AS PER MRM COP

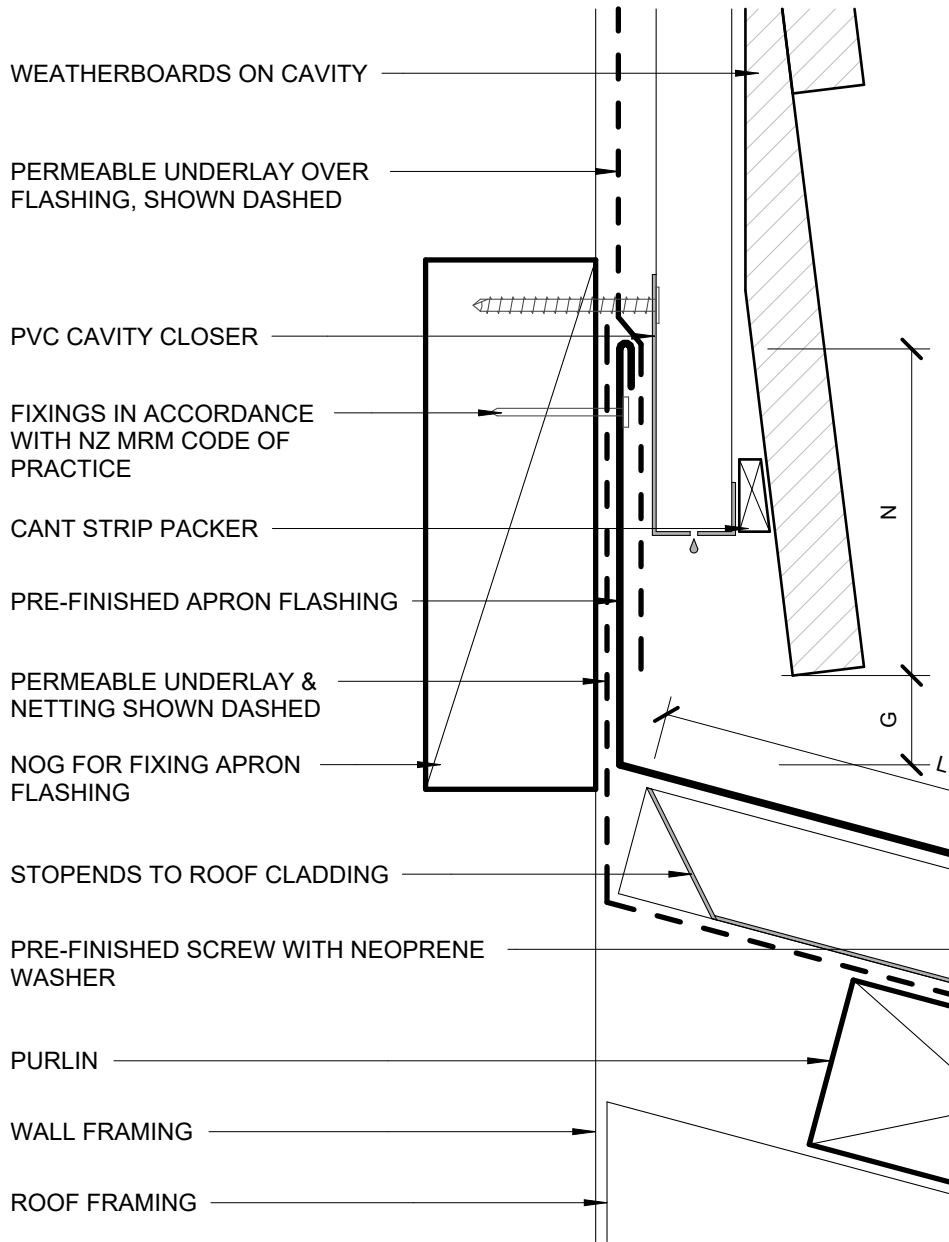
PRE-FINISHED APRON FLASHING

SOFT EDGE OR NOTCHED DRESSED OVER MC760 RIBS

METALCRAFT MC760 ROOFING

PRE-FINISHED SCREW WITH NEOPRENE WASHER

PERMEABLE UNDERLAY & NETTING SHOWN DASHED



AS PER E2/ASI

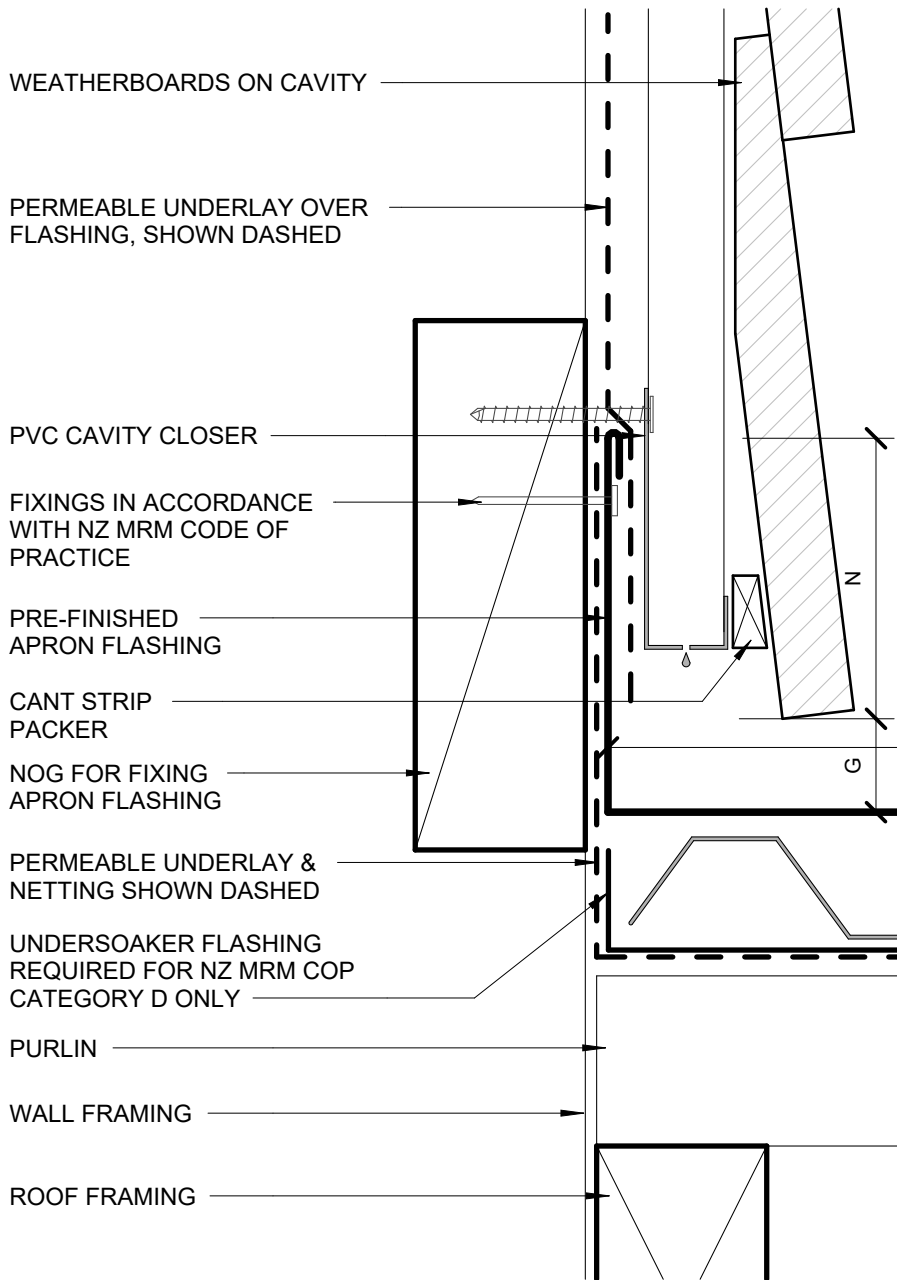
	SITUATION 1 1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH $\geq 10^\circ$	SITUATION 2 1. ALL ROOF PITCHES IN VERY HIGH WIND ZONES 2. LOW, MEDIUM, AND HIGH WIND ZONES WHERE ROOF PITCH $\leq 10^\circ$	SITUATION 3 1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE
G	MIN. 35mm	MIN. 35mm	MIN. 35mm
N	MIN. 75mm	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)

AS PER MRM CODE OF PRACTICE

	CATEGORY A 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°	CATEGORY B VERY HIGH WIND ZONES ROOF PITCH $< 8^\circ$ EXTRA HIGH WIND ZONES -ALL ROOF PITCHES	CATEGORY C SED WIND ZONES UP TO 60 m/s ALL ROOF PITCH	CATEGORY D SED WIND ZONES UP TO 68 m/s ALL ROOF PITCH
G	25mm	25mm	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)	MIN. 100mm + HEM QR 125mm (VERTICALLY UP FACE - SMOOTH) MIN. 125mm + HEM (VERTICALLY UP FACE - PROFILED)	MIN. 100mm + HEM QR 125mm (VERTICALLY UP FACE - SMOOTH) MIN. 125mm + HEM (VERTICALLY UP FACE - PROFILED)
L	MIN. 130mm	MIN. 200mm	MIN. 200mm + BAFFLE (REFER NZ MRM COP)	MIN. 200mm + BAFFLE (REFER NZ MRM COP)

MIN. ROOF PITCH
AS PER MRM
COP

METALCRAFT MC760 ROOFING
SOFT EDGE OR NOTCHED
DRESSED OVER MC760 RIBS
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	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
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)
M	TRAPEZOIDAL & TRAY: ONE RIB CORRUGATE: 2 CORRUGATIONS	TRAPEZOIDAL & TRAY: TWO RIBS (20mm - 34mm)* ONE RIB ($> 34mm$)* CORRUGATE: 2 CORRUGATIONS	TRAPEZOIDAL & TRAY: TWO RIBS (20mm - 34mm)* ONE RIB ($> 34mm$)* CORRUGATE: 3 CORRUGATIONS	TRAPEZOIDAL & TRAY: TWO RIBS (20mm - 34mm)* + UNDERSOAKER ONE RIB ($> 34mm$)* + UNDERSOAKER CORRUGATE: 2 CORRUGATIONS + UNDERSOAKER

* RIB HEIGHT OF PROFILE OR TURNUP

M

5-10mm

5mm GAP

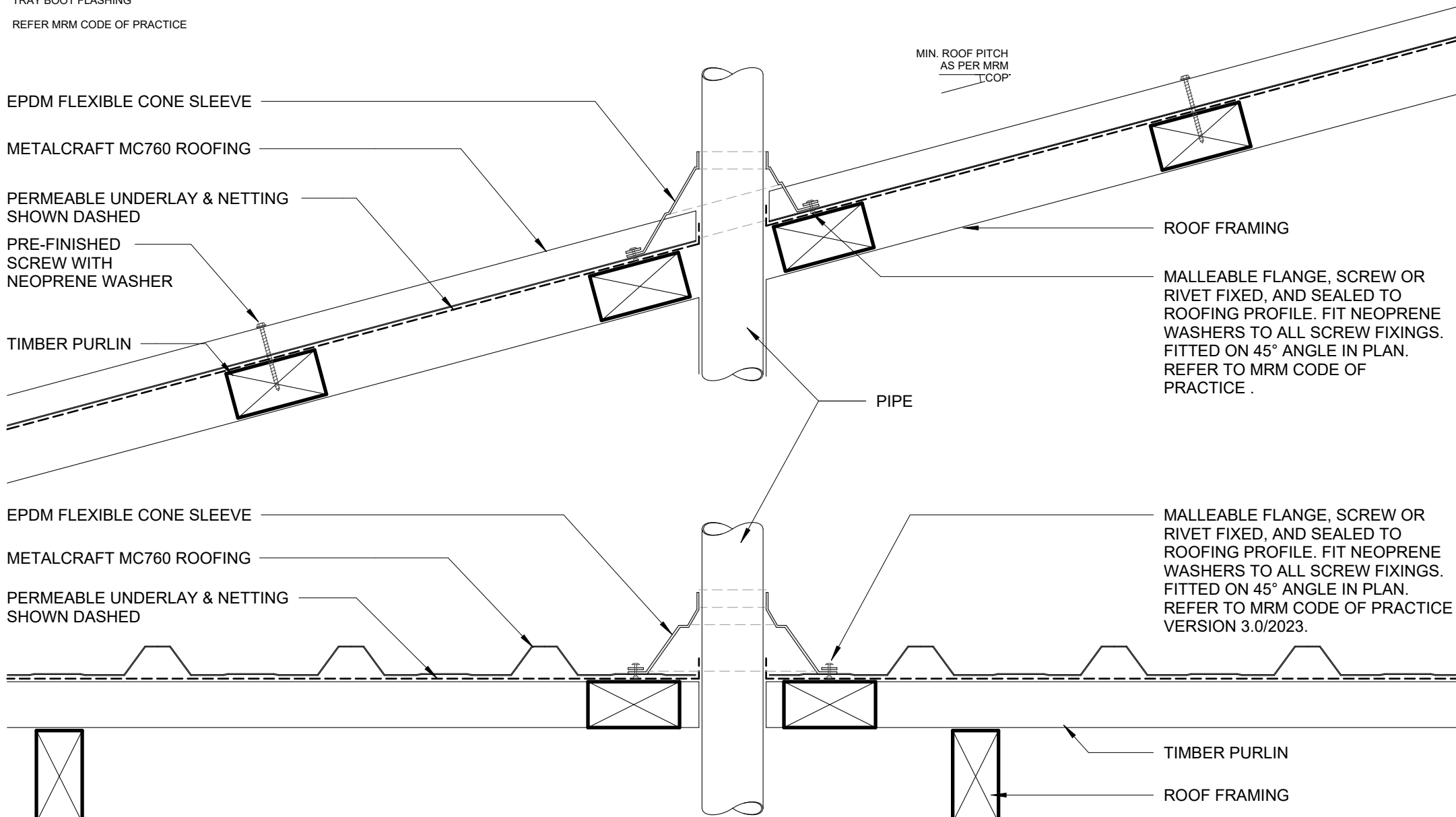
METALCRAFT MC760 ROOFING

PRE-FINISHED SCREW WITH NEOPRENE WASHER

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

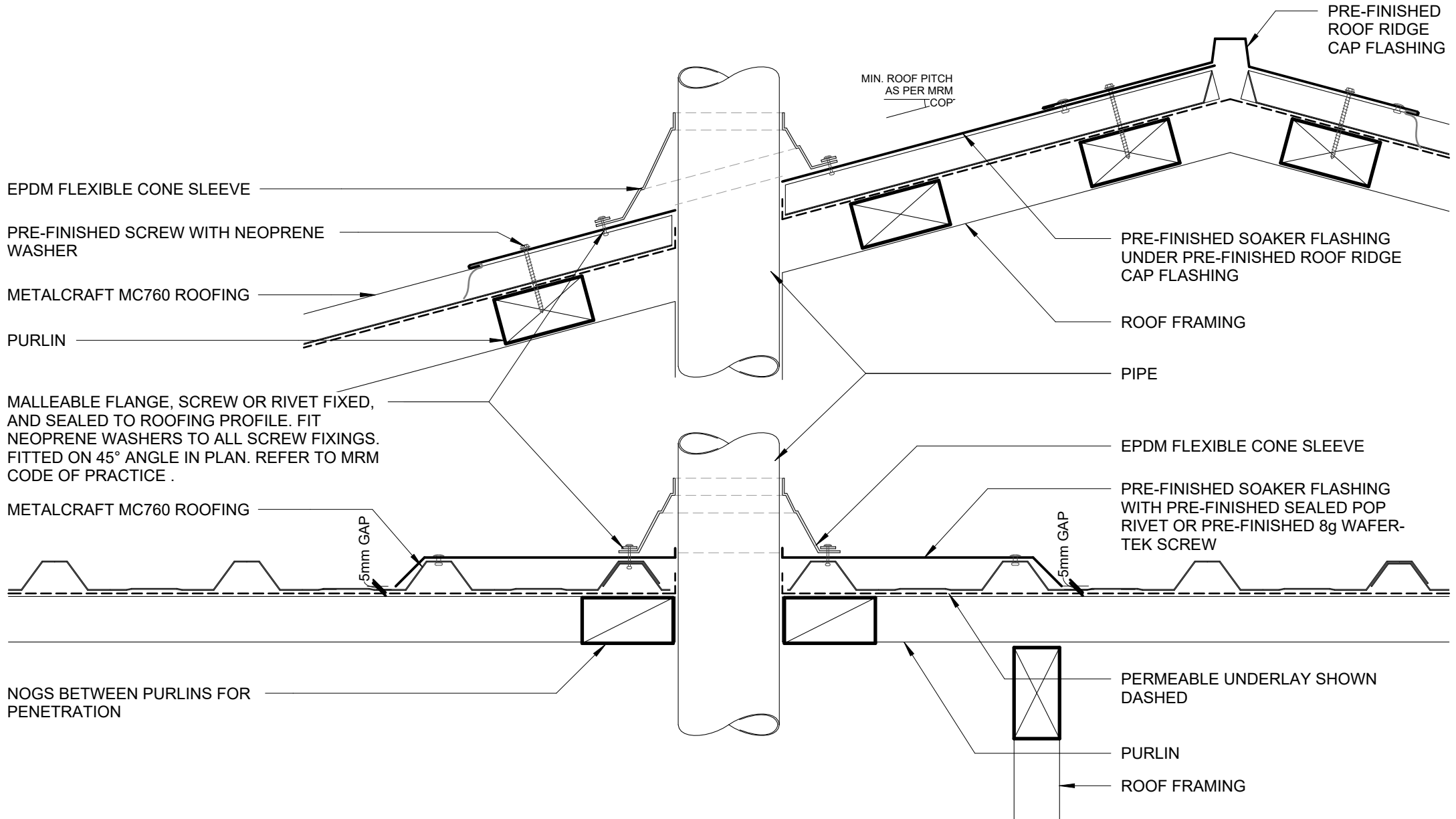
* MIN. 10° FOR PIPE PENETRATION. DIRECT FIX BOOT FLASHING IS APPLICABLE FOR WHEN LESS THAN 50% BLOCKAGE OCCURS. WHEN EXCEEDING 50% BLOCKAGE OCCURS, REFER TO BACK TRAY BOOT FLASHING

REFER MRM CODE OF PRACTICE



* MIN. 3° FOR PIPE PENETRATION WITH A BOOT FLASHING

REFER MRM CODE OF PRACTICE



PIPE PENETRATION BACK TRAY BOOT FLASHING

MC760

Rev. 3.0

RESIDENTIAL ROOFING

Reference RRM760

Date SEP 2024

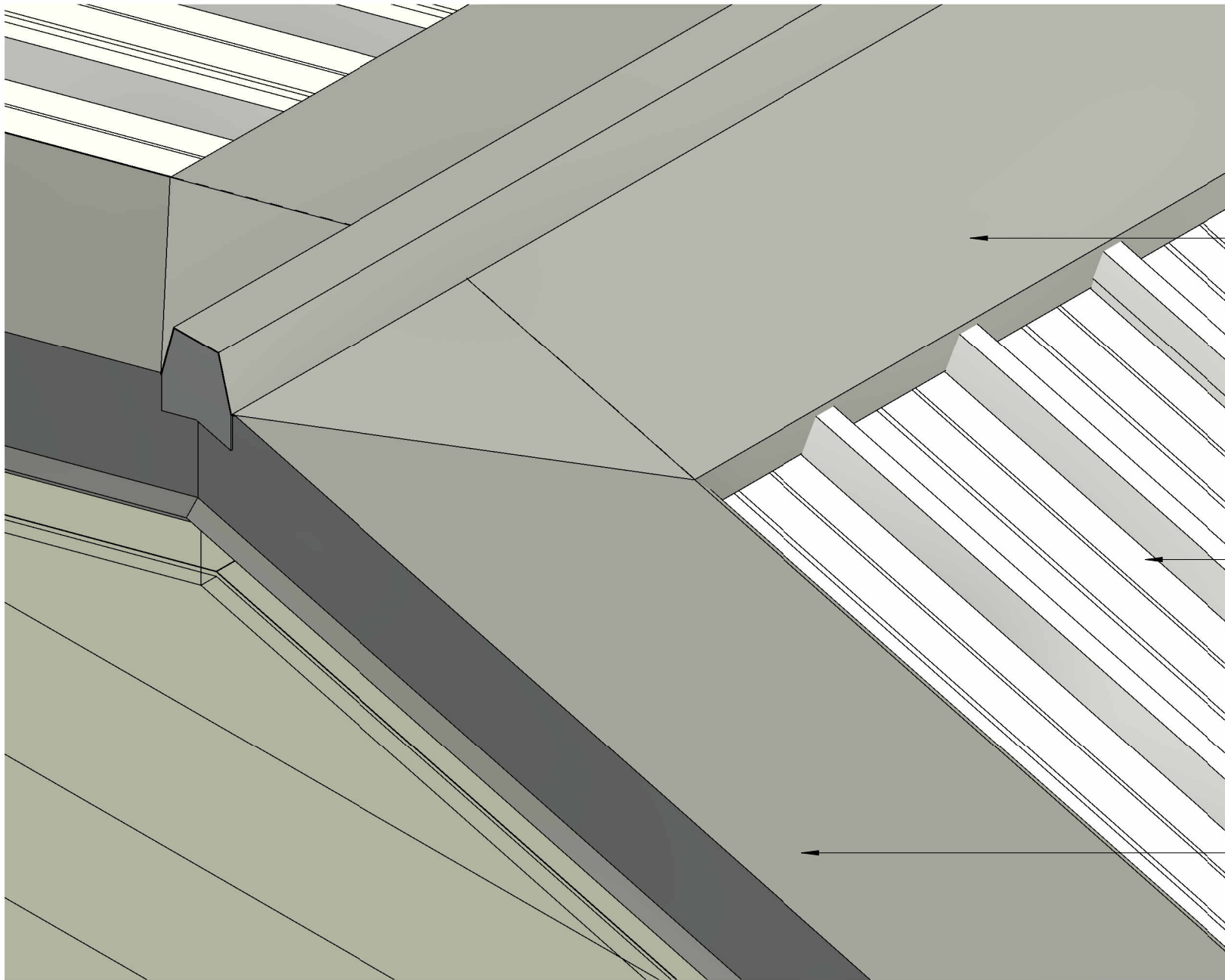
Scale 1 : 5

Sheet **A 19 / 26**

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

PRE-FINISHED RIDGE CAP FLASHING

METALCRAFT MC760

PRE-FINISHED BARGE FLASHING

PRE-FINISHED BARGE FLASHING

PRE-FINISHED HIP FLASHING

PRE-FINISHED APRON FLASHING

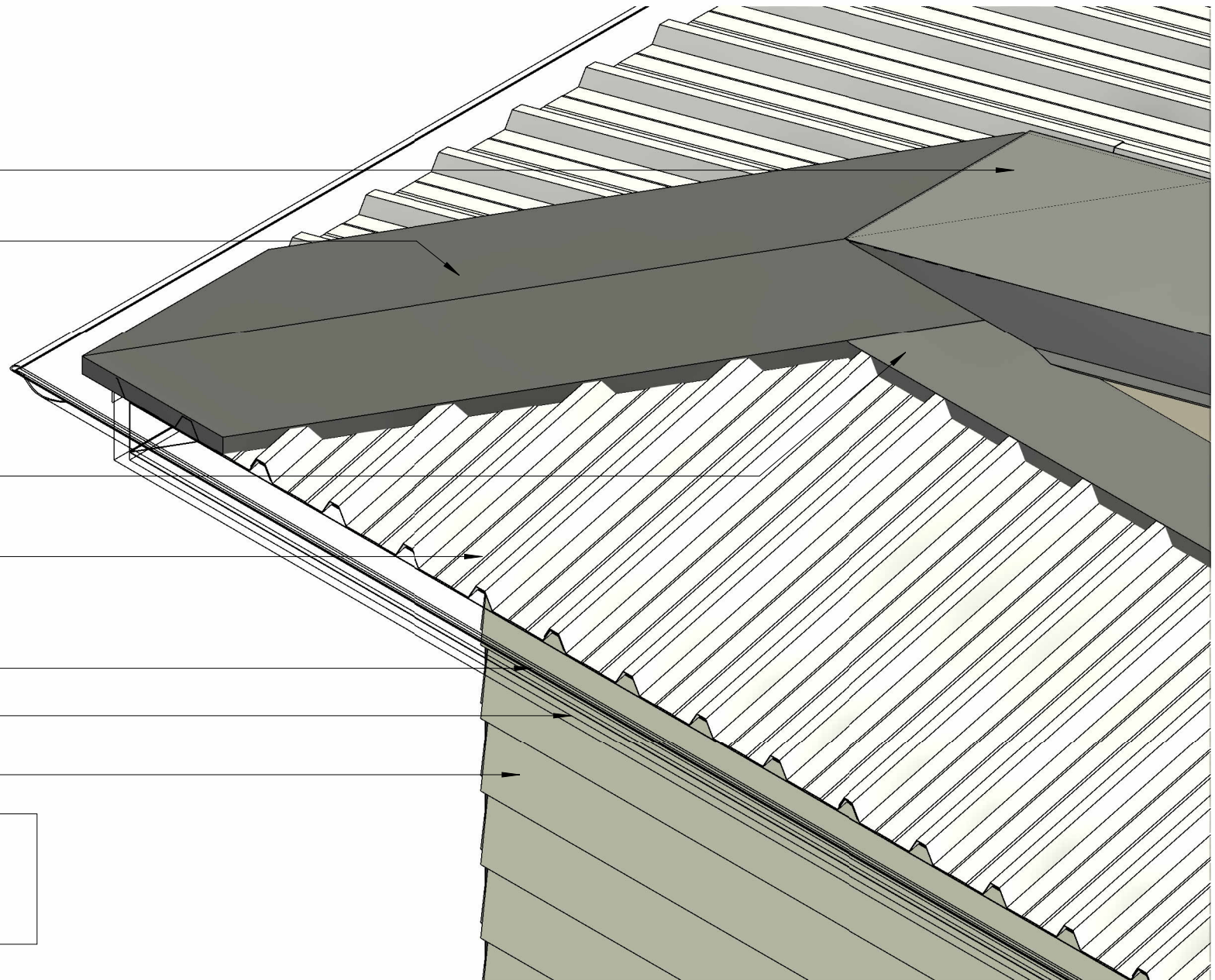
METALCRAFT MC760 ROOFING
TURN DOWN INTO GUTTER.
REFER TO EAVE DETAILS FOR
MINIMUM ROOF OVERHANG

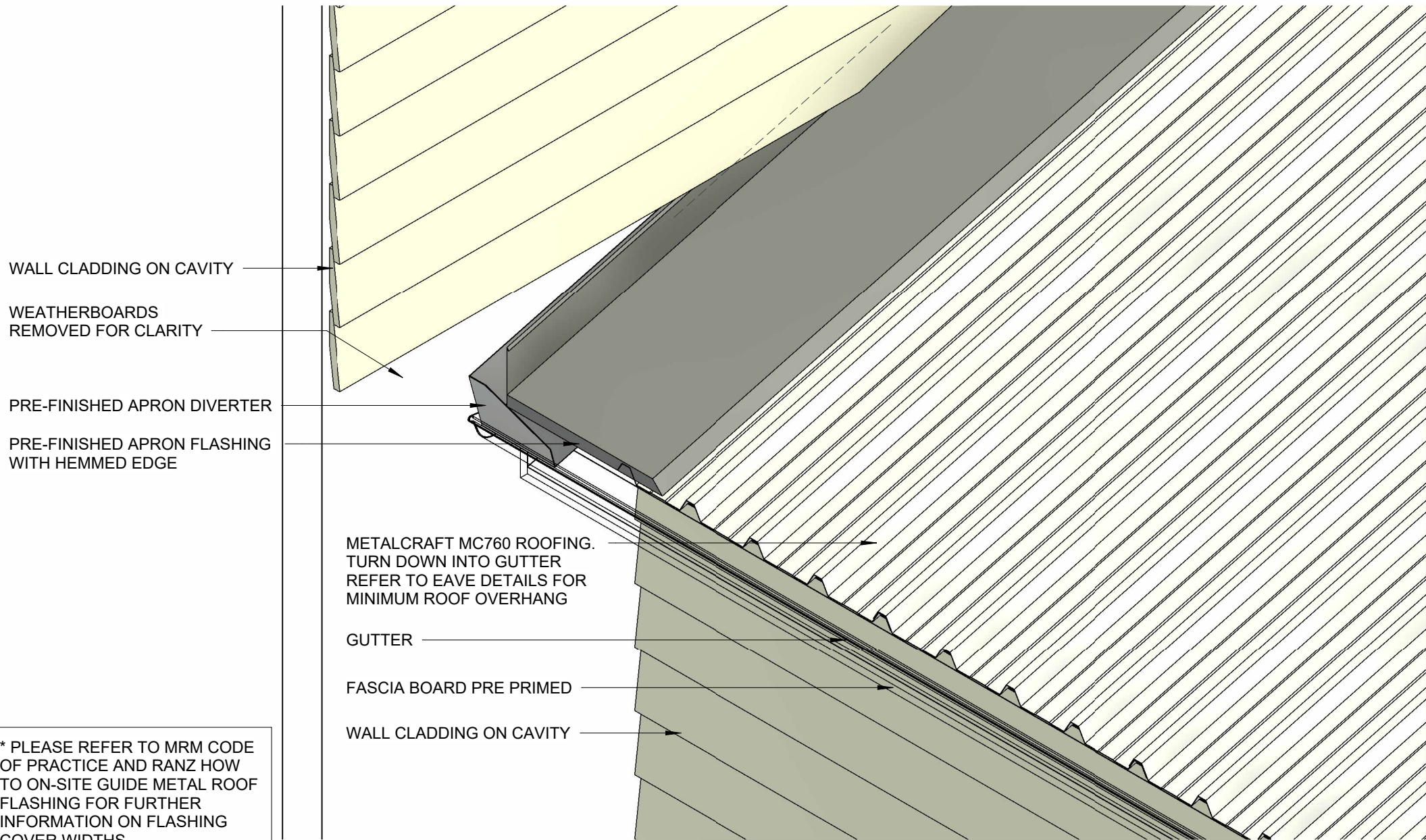
GUTTER

FASCIA BOARD PRE PRIMED

WALL CLADDING ON CAVITY

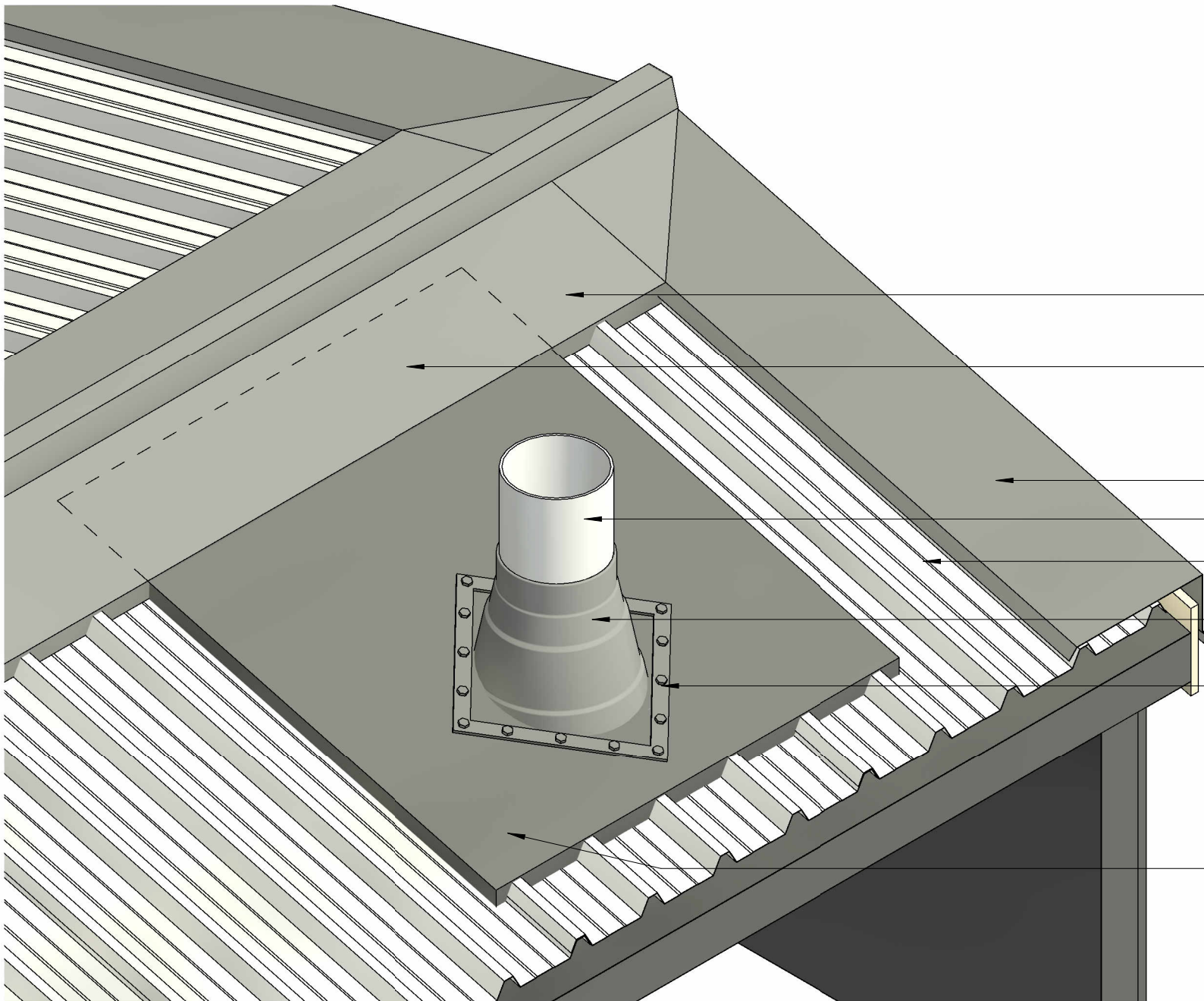
* PLEASE REFER TO MRM CODE OF PRACTICE AND RANZ HOW TO ON-SITE GUIDE METAL ROOF FLASHING FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.



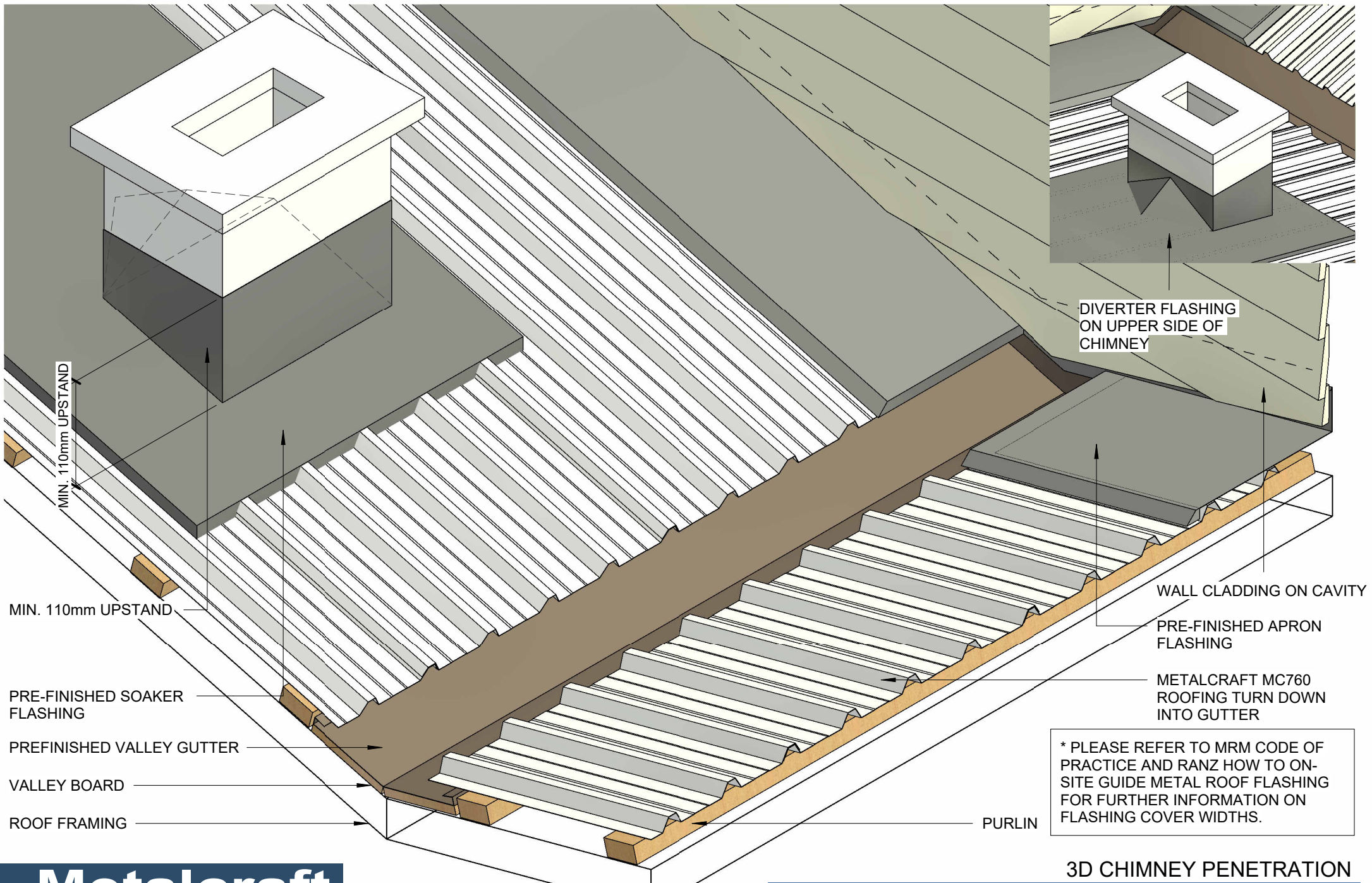


* PLEASE REFER TO MRM CODE OF PRACTICE AND RANZ HOW TO ON-SITE GUIDE METAL ROOF FLASHING FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.

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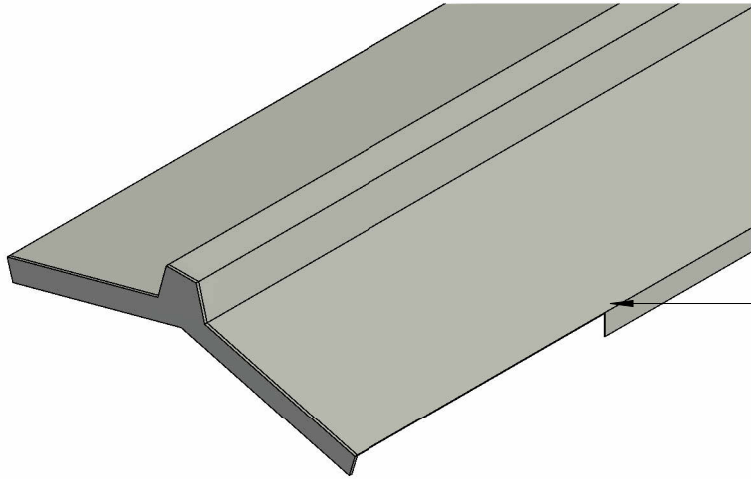


- PRE-FINISHED ROOF RIDGE FLASHING
- PRE-FINISHED SOAKER FLASHING LINE UNDER PRE-FINISHED ROOF RIDGE FLASHING
- PRE-FINISHED ROOF BARGE FLASHING
- PIPE
- METALCRAFT MC760 ROOFING
- EPDM FLEXIBLE CONE SLEEVE
- MALLEABLE FLANGE, SCREW OR RIVET FIXED, AND SEALED TO ROOFING PROFILE. FIT NEOPRENE WASHERS TO ALL SCREW FIXINGS. FITTED ON 45° ANGLE IN PLAN. REFER TO MRM CODE OF PRACTICE VERSION 3.0/2023
- PRE-FINISHED SOAKER FLASHING



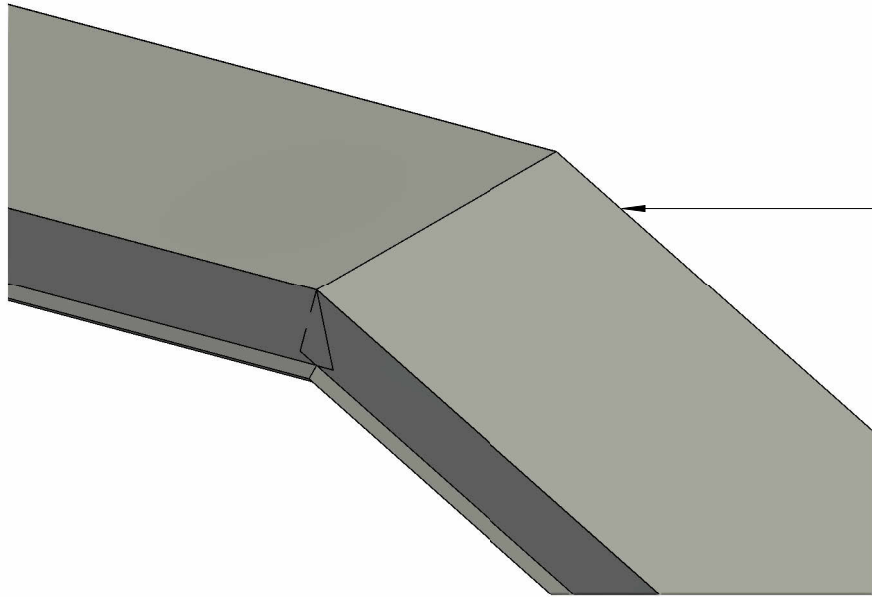
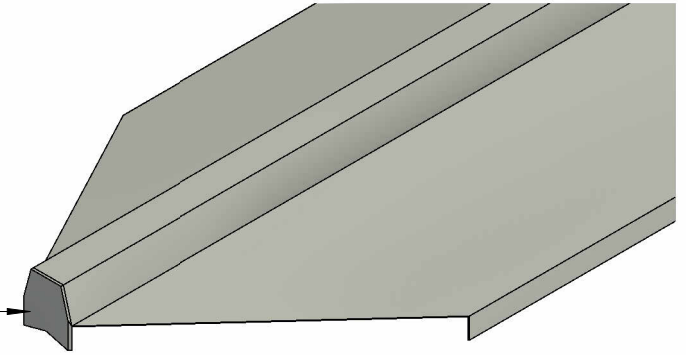
* PLEASE REFER TO MRM CODE OF PRACTICE AND RANZ HOW TO ON-SITE GUIDE METAL ROOF FLASHING FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.

OPTION 1

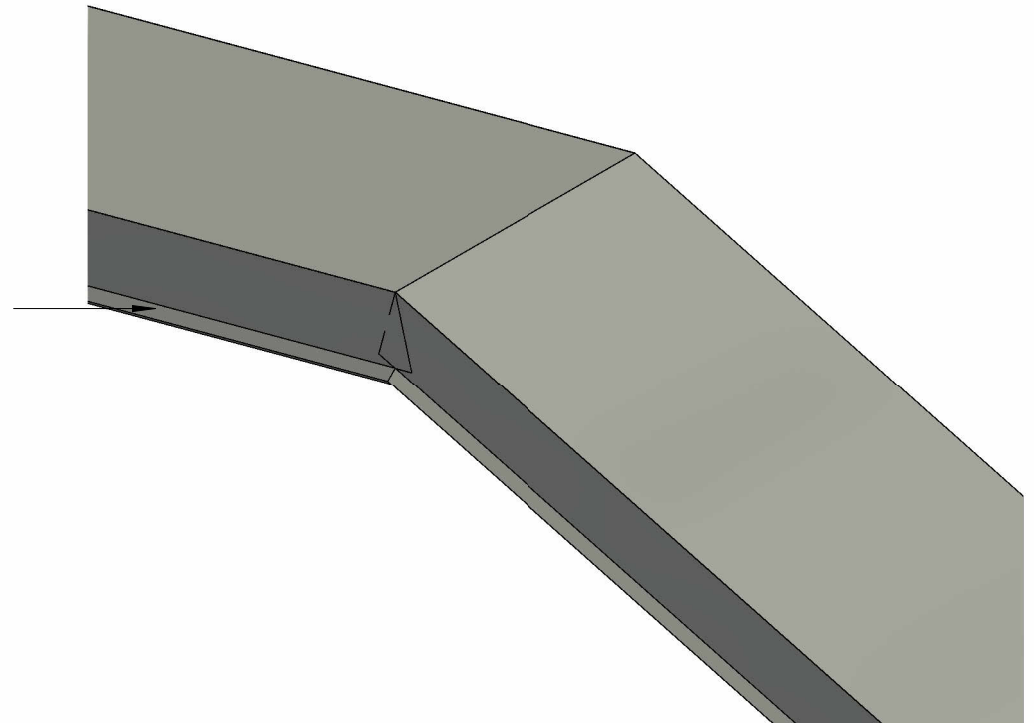


RIDGE CAP FLASHING

OPTION 2



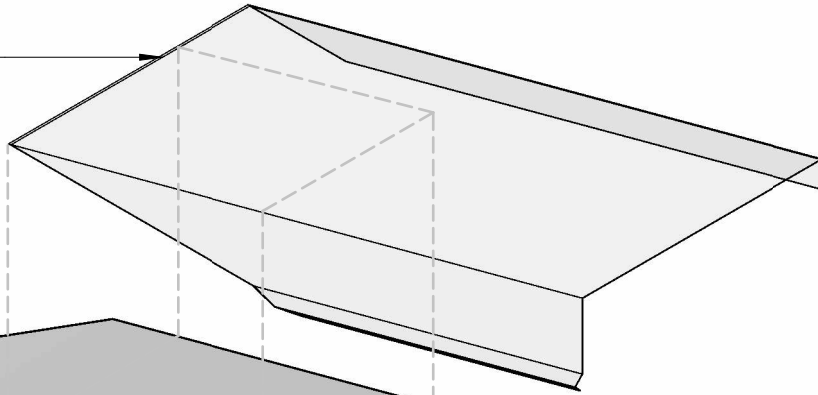
BARGE FLASHING



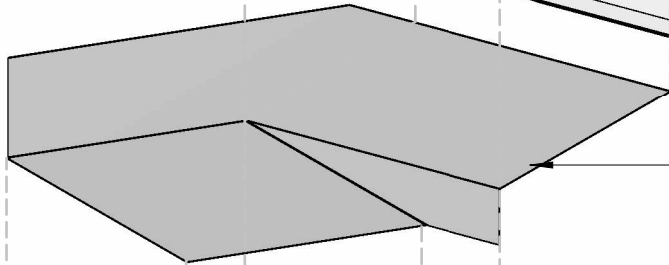
3D RIDGE/BARGE FLASHINGS

RESIDENTIAL ROOFING

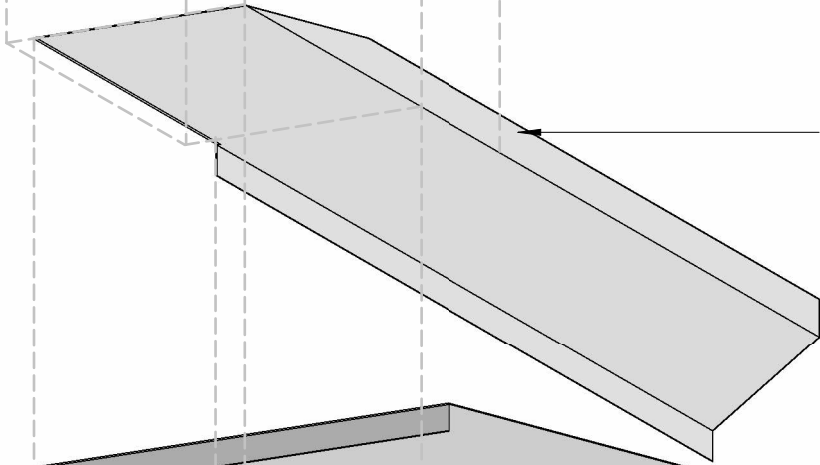
(4) PRE-FINISHED BARGE FLASHING



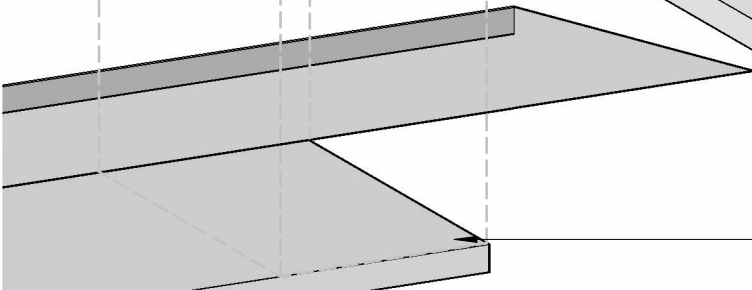
(3) PRE-FINISHED 3D SADDLE FLASHING



(2) PRE-FINISHED APRON FLASHING



(1) PRE-FINISHED HIP FLASHING



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

