

RESIDENTIAL ROOFING

<u>DETAIL LIST</u>	<u>Revision</u>	<u>Date</u>
A 00 / 26	COVER SHEET	
A 01 / 26	ROOF RIDGE	2.0 JUNE 2024
A 02 / 26	ROOF RIDGE (ROUND)	2.0 JUNE 2024
A 03 / 26	SAWTOOTH RIDGE	2.0 JUNE 2024
A 04 / 26	SAWTOOTH EAVE	2.0 JUNE 2024
A 05 / 26	ROOF VALLEY	2.0 JUNE 2024
A 06 / 26	ASYMMETRICAL ROOF VALLEY	2.0 JUNE 2024
A 07 / 26	INTERNAL GUTTER	2.0 JUNE 2024
A 08 / 26	PARALLEL HIDDEN GUTTER	2.0 JUNE 2024
A 09 / 26	PARALLEL HIDDEN GUTTER (2 PART FLASHING)	2.0 JUNE 2024
A 10 / 26	ROOF - CHANGE PITCH	2.0 JUNE 2024
A 11 / 26	MANSARD	2.0 JUNE 2024
A 12 / 26	EAVE WITH SNOW STRAP	2.0 JUNE 2024
A 13 / 26	BARGE WITH PROFILED CLADDING	2.0 JUNE 2024
A 14 / 26	BARGE OVERHANG	2.0 JUNE 2024

<u>DETAIL LIST</u>	<u>Revision</u>	<u>Date</u>
A 15 / 26	PARAPET WITH TRANSVERSE APRON	2.0 JUNE 2024
A 16 / 26	TRANSVERSE APRON	2.0 JUNE 2024
A 17 / 26	PARALLEL APRON	2.0 JUNE 2024
A 18 / 26	PIPE PENETRATION DIRECT FIXED BOOT FLASHING	2.0 JUNE 2024
A 19 / 26	PIPE PENETRATION BACKTRAK BOOT FLASHING	2.0 JUNE 2024
A 20 / 26	3D RIDGE TO BARGE JUNCTION	2.0 JUNE 2024
A 21 / 26	3D DUTCH GABLE	2.0 JUNE 2024
A 22 / 26	3D APRON	2.0 JUNE 2024
A 23 / 26	3D OVER 85mm DIAMETER PIPE PENETRATION	2.0 JUNE 2024
A 24 / 26	3D CHIMNEY PENETRATION	2.0 JUNE 2024
A 25 / 26	3D RIDGE/BARGE FLASHINGS	2.0 JUNE 2024
A 26 / 26	3D DUTCH GABLE FLASHINGS	2.0 JUNE 2024

PRE-FINISHED RIDGE CAP FLASHING

STOPENDS TO ROOF CLADDING

METALCRAFT KAHU™
ROOFING

PRE-FINISHED SELF
DRILLING/TAPPING
SCREW WITH
NEOPRENE WASHER

NOTCHED DRESSED
OVER KAHU™ RIBS

5mm GAP

PURLIN

ROOF FRAMING

PERMEABLE UNDERLAY &
NETTING SHOWN DASHED

AS PER E2/ASI

SITUATION 1

1. LOW, MEDIUM, HIGH WIND ZONES, WHERE
ROOF PITCH $\geq 10^\circ$

X MIN. 130mm
(EXCLUDING ANY SOFT EDGE OR TURN-DOWN
TO ROOFING)

SITUATION 2

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

SITUATION 3

1. ALL ROOF PITCHES IN EXTRA HIGH WIND
ZONE.
MIN. 200mm
(EXCLUDING ANY SOFT EDGE OR TURN-DOWN
TO ROOFING)

* KAHU MIN. ROOF PITCH = 3°

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°

X MIN. 130mm

CATEGORY B

VERY HIGH WIND ZONES ROOF
PITCH $< 8^\circ$

EXTRA HIGH WIND ZONES -ALL
ROOF PITCHES

MIN. 200mm

CATEGORY C

SED WIND ZONES UP TO 60 m/s
ALL ROOF PITCH

MIN. 200mm

CATEGORY D

SED WIND ZONES UP TO 68 m/s
ALL ROOF PITCH

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

PRE-FINISHED ROUND RIDGE CAP FLASHING

STOPENDS TO ROOF CLADDING

METALCRAFT KAHU™
ROOFING

PRE-FINISHED SELF
DRILLING/TAPPING
SCREW WITH
NEOPRENE WASHER

NOTCHED DRESSED
OVER KAHU™ RIBS

5mm GAP

PURLIN

ROOF FRAMING

PERMEABLE UNDERLAY &
NETTING SHOWN DASHED

AS PER E2/ASI

SITUATION 1

1. LOW, MEDIUM, HIGH WIND ZONES, WHERE
ROOF PITCH $\geq 10^\circ$

X MIN. 130mm
(EXCLUDING ANY SOFT EDGE OR TURN-DOWN
TO ROOFING)

SITUATION 2

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

SITUATION 3

1. ALL ROOF PITCHES IN EXTRA HIGH WIND
ZONE.
MIN. 200mm
(EXCLUDING ANY SOFT EDGE OR TURN-DOWN
TO ROOFING)

* KAHU MIN. ROOF PITCH = 3°

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°

X MIN. 130mm

CATEGORY B

VERY HIGH WIND ZONES ROOF
PITCH $< 8^\circ$

EXTRA HIGH WIND ZONES -ALL
ROOF PITCHES

MIN. 200mm

CATEGORY C

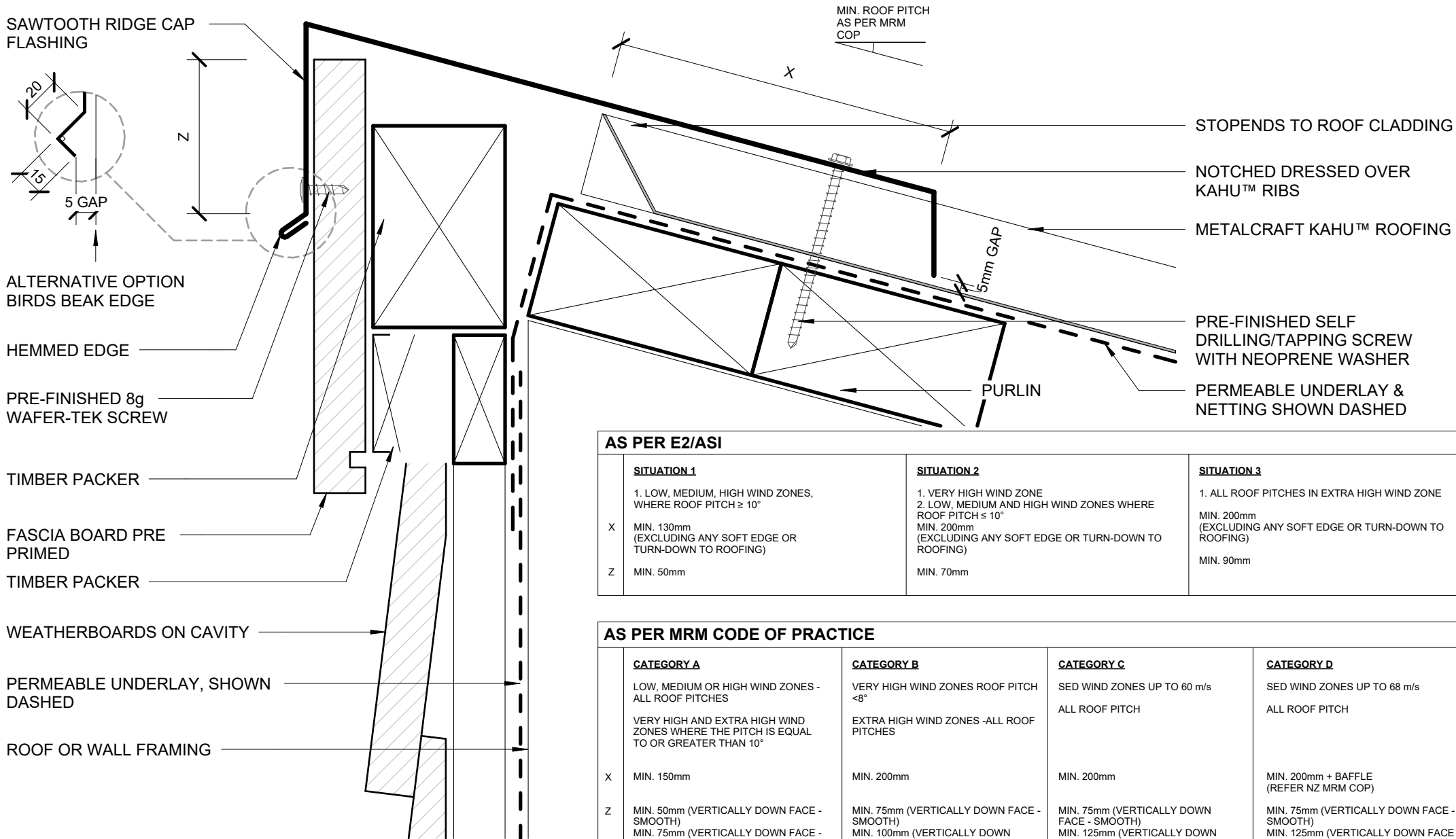
SED WIND ZONES UP TO 60 m/s
ALL ROOF PITCH

MIN. 200mm

CATEGORY D

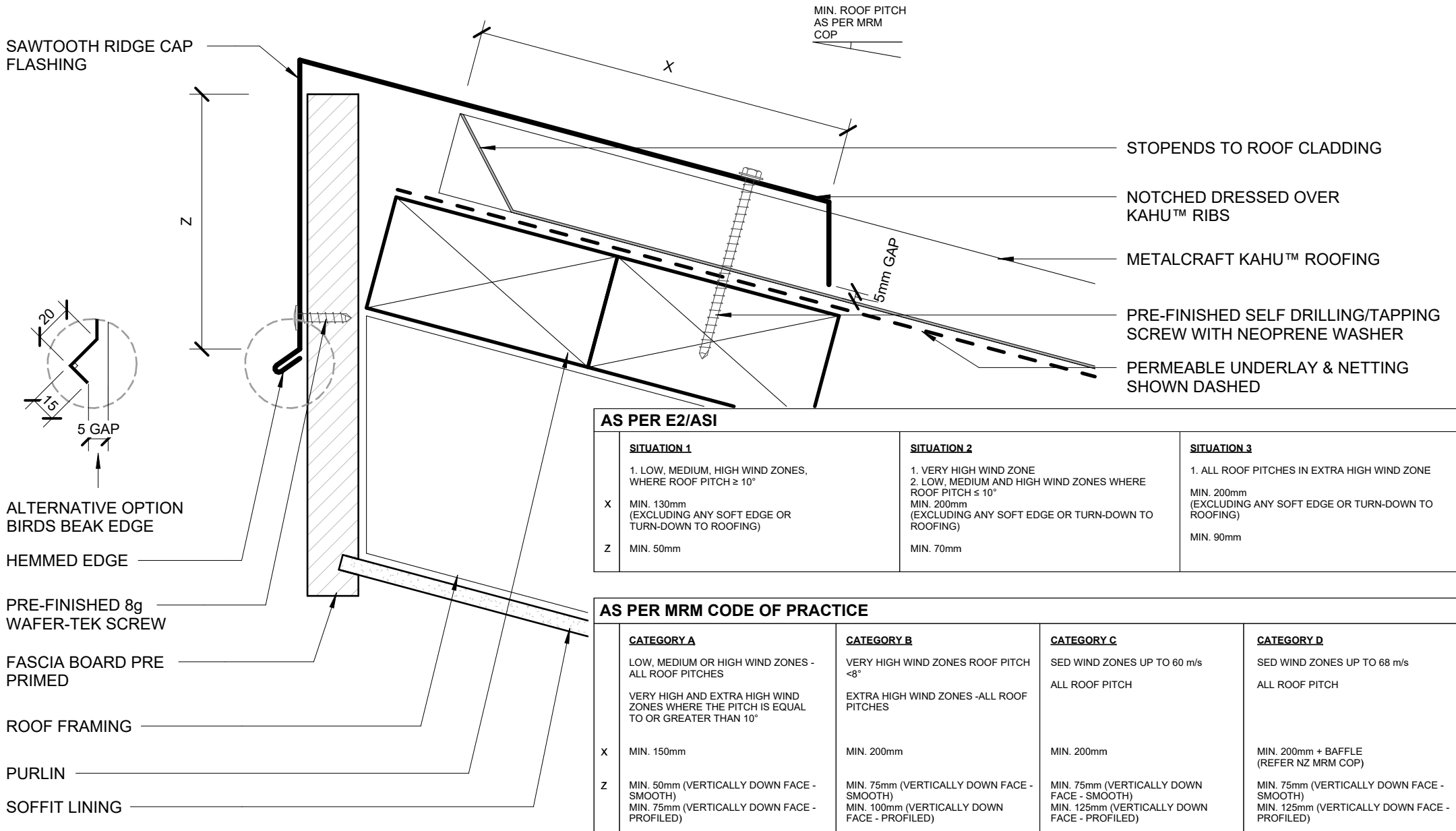
SED WIND ZONES UP TO 68 m/s
ALL ROOF PITCH

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 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. 150mm	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)



METALCRAFT KAHU™
ROOFING

PRE-FINISHED SELF
DRILLING/TAPPING
SCREW WITH NEOPRENE
WASHER

OVERALL VALLEY GUTTER WIDTH MIN. 250mm

CLEARANCE BETWEEN ROOFING 50mm MIN.

MIN. 80mm

MIN. 80mm

MIN. 50mm

FREEBOARD

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

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

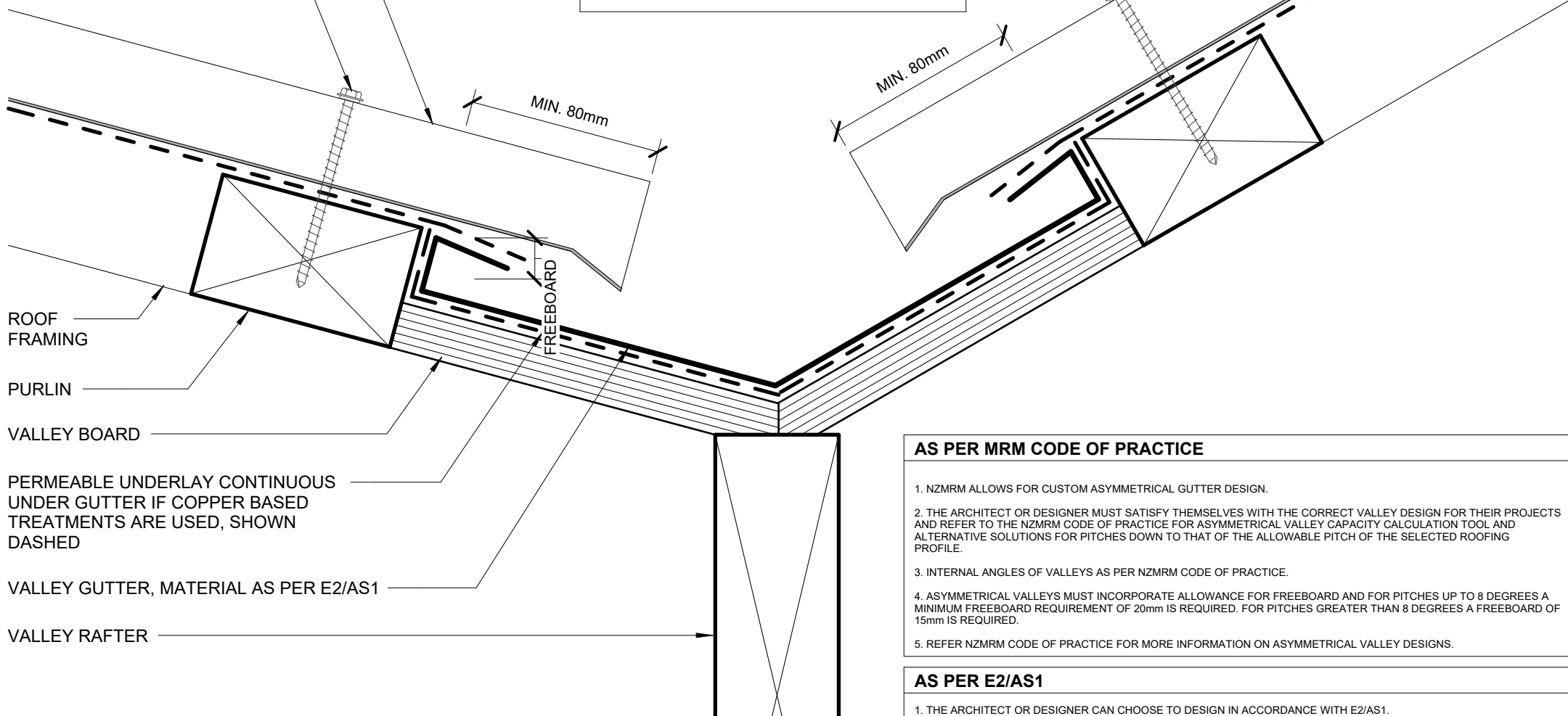
1. THE ARCHITECT OR DESIGNER CAN CHOOSE TO DESIGN IN ACCORDANCE WITH E2/AS1.

METALCRAFT KAHU™
ROOFING

PRE-FINISHED SELF
DRILLING/TAPPING
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°.



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.

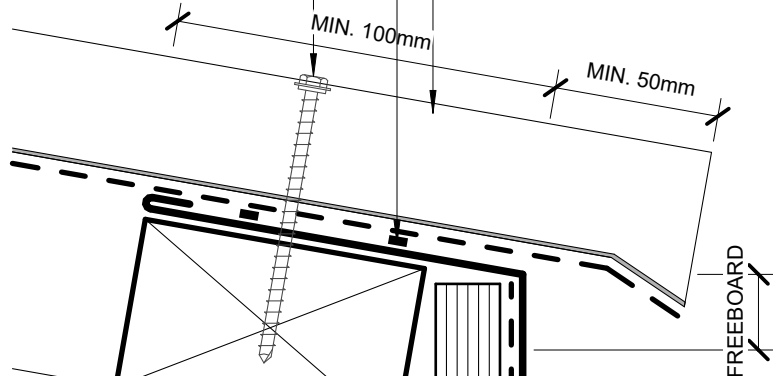
AS PER E2/AS1

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

METALCRAFT KAHU™
ROOFING

SEPARATION OF BUTYL
GUTTER AND METAL
ROOFING WITH LAP SEAL
TAPE

PRE-FINISHED SELF
DRILLING/TAPPING
SCREW WITH
NEOPRENE WASHER



PURLIN

ROOF FRAMING

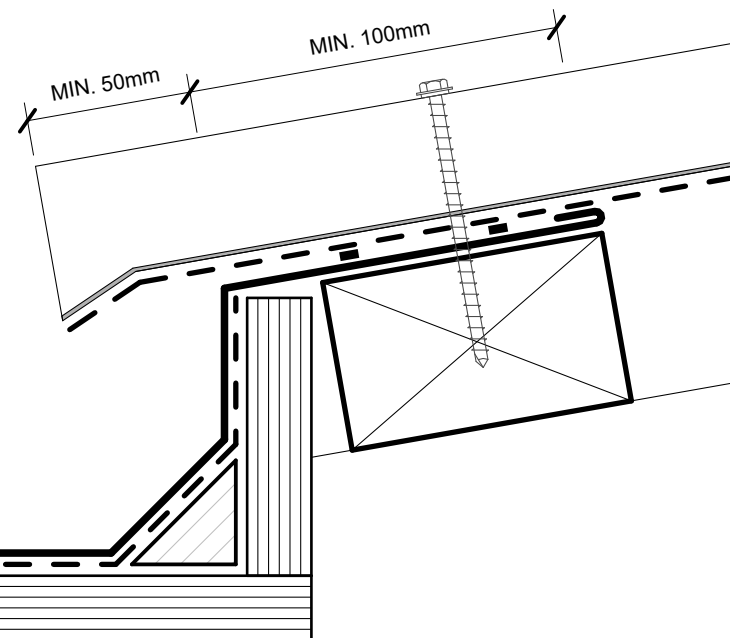
TIMBER FILLET

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



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.

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Roofing
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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 and 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.

KAHU

Rev. 2.0

Reference RRKA

Date JUNE 2024

Scale 1 : 2

INTERNAL GUTTER
RESIDENTIAL ROOFING

Sheet **A 07 / 26**

METALCRAFT KAHU™
ROOFING

PRE-FINISHED
SCREW WITH
NEOPRENE WASHER

ROOF FRAMING

PURLIN

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

HIDDEN GUTTER, MATERIAL AS PER E2/AS1

MIN. 80mm

MIN. 80mm

FREEBOARD

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

FIXINGS AS PER
E2/AS1

**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

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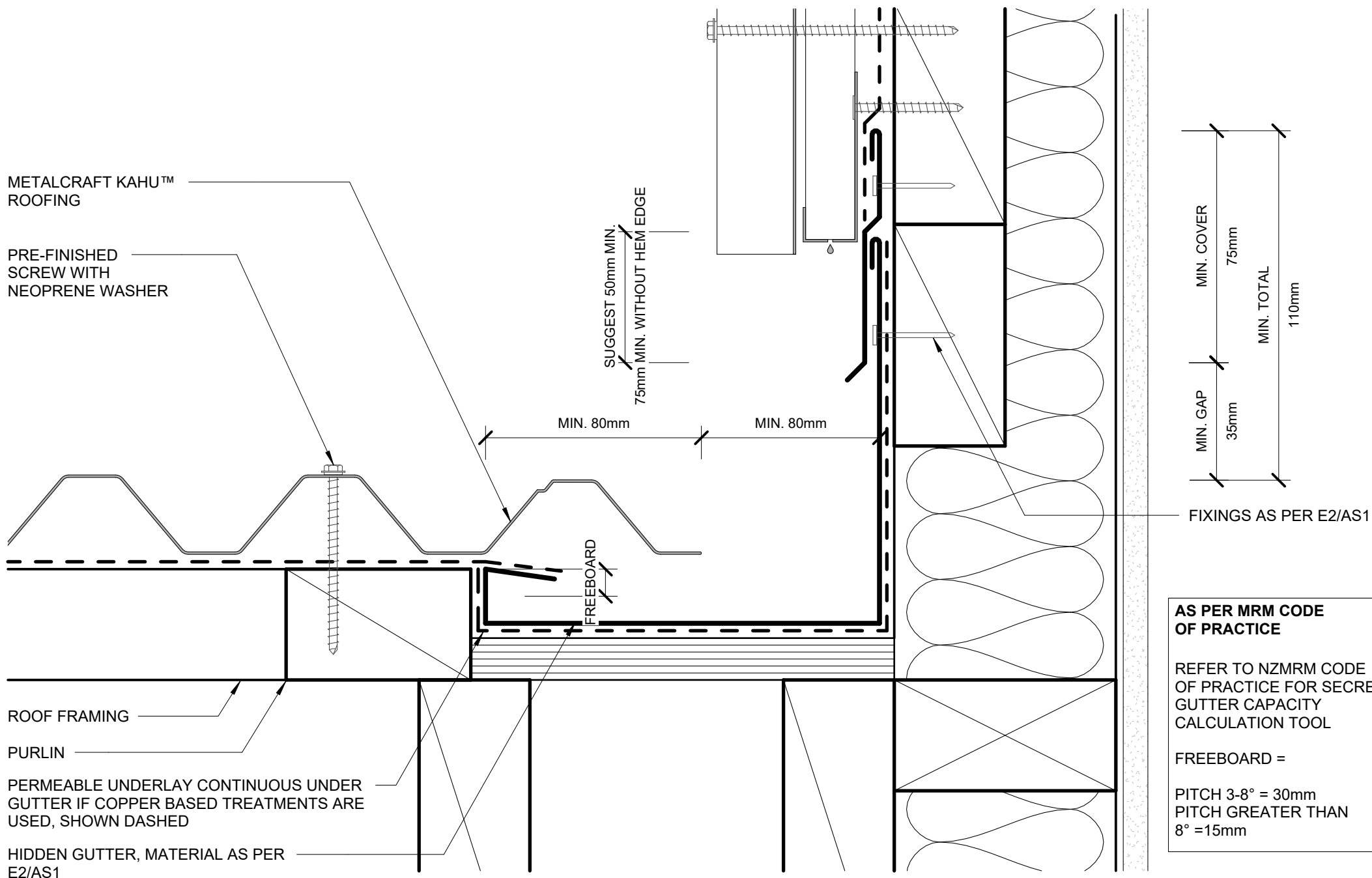
Reference RRKA

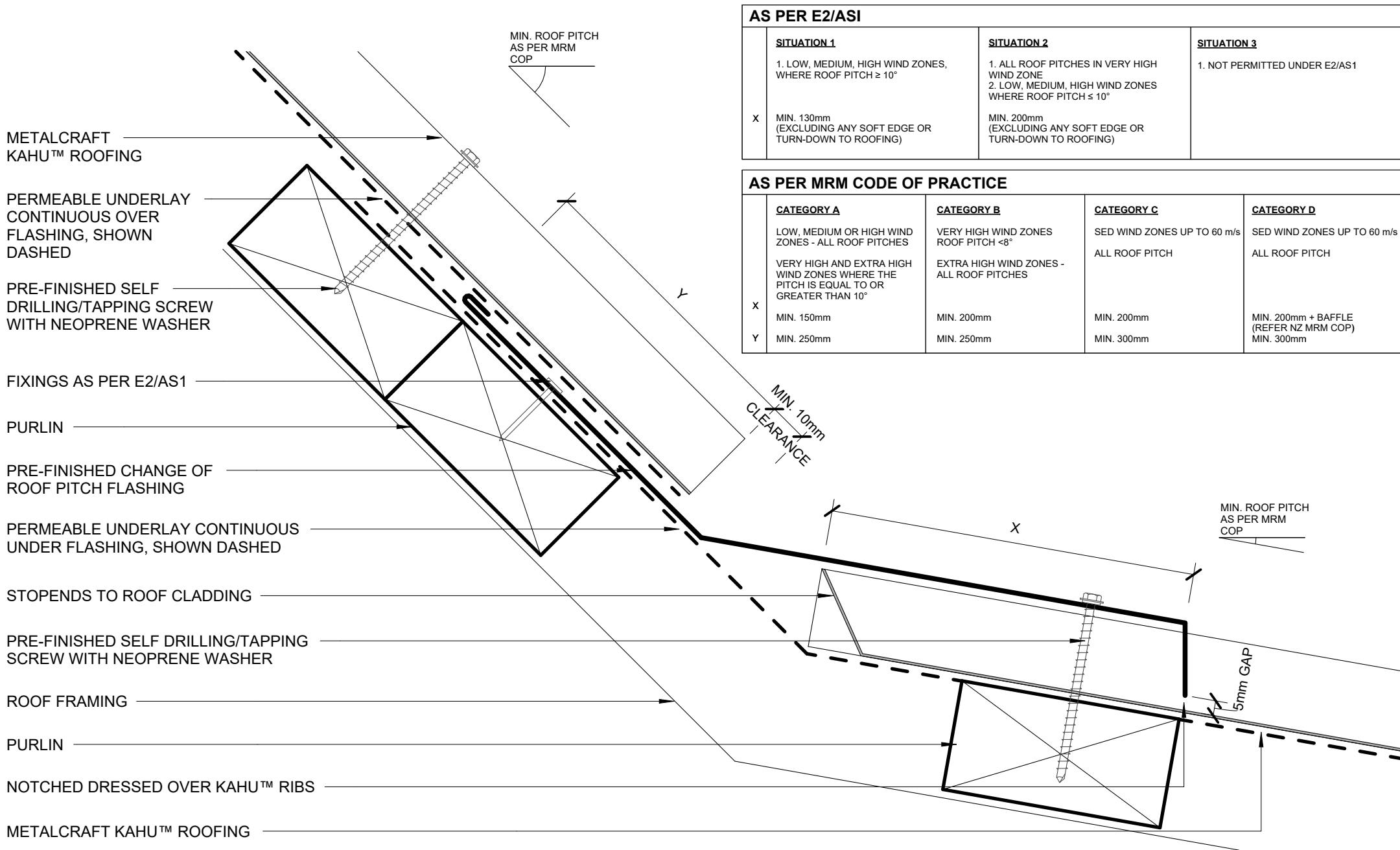
Date JUNE 2024

Scale 1 : 2

PARALLEL HIDDEN GUTTER
RESIDENTIAL ROOFING

Sheet **A 08 / 26**





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	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. 150mm	MIN. 200mm	MIN. 200mm	MIN. 200mm + BAFFLE (REFER NZ MRM COP)
Y	MIN. 250mm	MIN. 250mm	MIN. 300mm	MIN. 300mm

METALCRAFT KAHU™
ROOFING

FIXINGS AS PER E2/AS1

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

NOTCHED DRESSED OVER KAHU™ RIBS

METALCRAFT KAHU™ ROOFING

MIN. ROOF PITCH
AS PER MRM
COP

Y

50mm MIN

MIN. ROOF PITCH
AS PER MRM
COP

5mm GAP

AS PER E2/AS1

SITUATION 1

1. LOW, MEDIUM, HIGH WIND ZONES,
WHERE ROOF PITCH $\geq 10^\circ$

X MIN. 130mm
(EXCLUDING ANY SOFT EDGE OR
TURN-DOWN TO ROOFING)

SITUATION 2

1. ALL ROOF PITCHES IN VERY HIGH
WIND ZONE
2. LOW, MEDIUM, HIGH WIND ZONES
WHERE ROOF PITCH $\leq 10^\circ$

MIN. 200mm
(EXCLUDING ANY SOFT EDGE OR
TURN-DOWN TO ROOFING)

SITUATION 3

1. NOT PERMITTED UNDER E2/AS1

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°

X MIN. 150mm

Y MIN. 250mm

CATEGORY B

VERY HIGH WIND ZONES
ROOF PITCH $< 8^\circ$

EXTRA HIGH WIND ZONES -
ALL ROOF PITCHES

MIN. 200mm

MIN. 250mm

CATEGORY C

SED WIND ZONES UP TO 60 m/s

ALL ROOF PITCH

MIN. 200mm

MIN. 300mm

CATEGORY D

SED WIND ZONES UP TO 60 m/s

ALL ROOF PITCH

MIN. 200mm + BAFFLE
(REFER NZ MRM COP)
MIN. 300mm

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Rev. 2.0

Reference RRKA

Date JUNE 2024

Scale 1 : 2

MANSARD
RESIDENTIAL ROOFING

Sheet **A 11 / 26**

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

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

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

MIN. 125 mm

MIN. ROOF PITCH
 AS PER MRM
 COP

METALCRAFT KAHU™ 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 SELF DRILLING/TAPPING SCREW WITH NEOPRENE WASHER

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

FIXINGS AS PER E2/AS1

TIMBER PURLIN

TIMBER ROOF FRAMING

SOFFIT LINING

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KAHU

Rev. 2.0

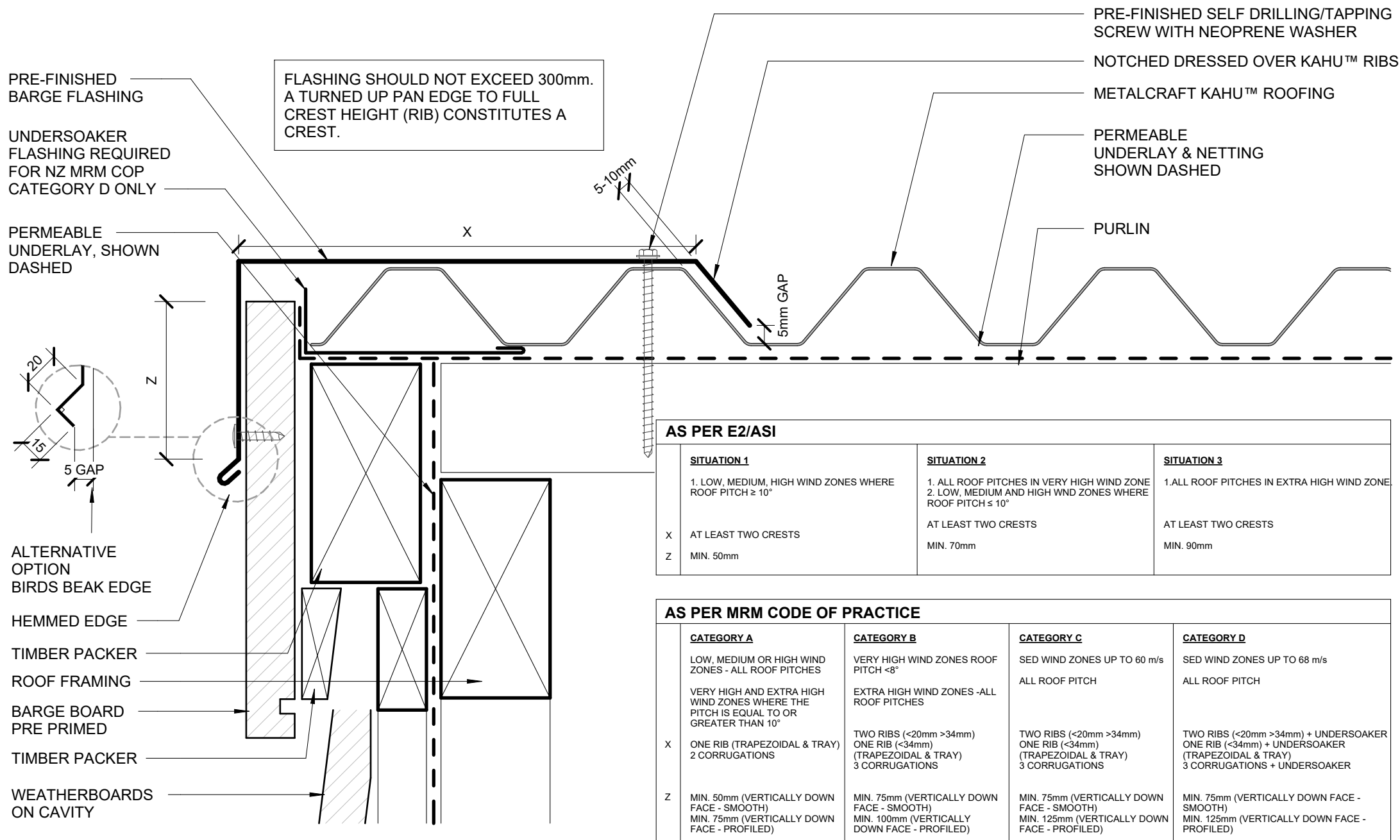
Reference RRKA

Date JUNE 2024

EAVE WITH SNOW STRAP
 RESIDENTIAL ROOFING

Scale 1 : 2

Sheet **A 12 / 26**



UNDERSOAKER
FLASHING REQUIRED
FOR NZ MRM COP
CATEGORY D ONLY

PRE-FINISHED 8g
WAFER-TEK SCREW

ALTERNATIVE
OPTION
BIRDS BEAK EDGE

HEMMED EDGE

FLY RAFTER

BARGE BOARD PRE PRIMED

SOFFIT LINING

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

PRE-FINISHED BARGE FLASHING

NOTCHED DRESSED OVER
KAHU™ RIBS

PERMEABLE UNDERLAY & NETTING
SHOWN DASHED

METALCRAFT KAHU™ ROOFING

X

5-10mm

5mm GAP

PURLIN

AS PER E2/ASI

SITUATION 1

1. LOW, MEDIUM, HIGH WIND ZONES WHERE
ROOF PITCH $\geq 10^\circ$

X AT LEAST TWO CRESTS

Z MIN. 50mm

SITUATION 2

1. ALL ROOF PITCHES IN VERY HIGH WIND ZONE
2. LOW, MEDIUM AND HIGH WIND ZONES WHERE
ROOF PITCH $\leq 10^\circ$

AT LEAST TWO CRESTS

MIN. 70mm

SITUATION 3

1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE

AT LEAST TWO CRESTS

MIN. 90mm

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°

X ONE RIB (TRAPEZOIDAL & TRAY)
2 CORRUGATIONS

Z MIN. 50mm (VERTICALLY DOWN
FACE - SMOOTH)
MIN. 75mm (VERTICALLY DOWN
FACE - PROFILED)

CATEGORY B

VERY HIGH WIND ZONES ROOF
PITCH $< 8^\circ$

EXTRA HIGH WIND ZONES - ALL
ROOF PITCHES

X TWO RIBS ($< 20\text{mm} > 34\text{mm}$)
ONE RIB ($< 34\text{mm}$)
(TRAPEZOIDAL & TRAY)
3 CORRUGATIONS

Z MIN. 75mm (VERTICALLY DOWN
FACE - SMOOTH)
MIN. 100mm (VERTICALLY
DOWN FACE - PROFILED)

CATEGORY C

SED WIND ZONES UP TO 60 m/s

ALL ROOF PITCH

X TWO RIBS ($< 20\text{mm} > 34\text{mm}$)
ONE RIB ($< 34\text{mm}$)
(TRAPEZOIDAL & TRAY)
3 CORRUGATIONS

Z MIN. 75mm (VERTICALLY DOWN
FACE - SMOOTH)
MIN. 125mm (VERTICALLY DOWN
FACE - PROFILED)

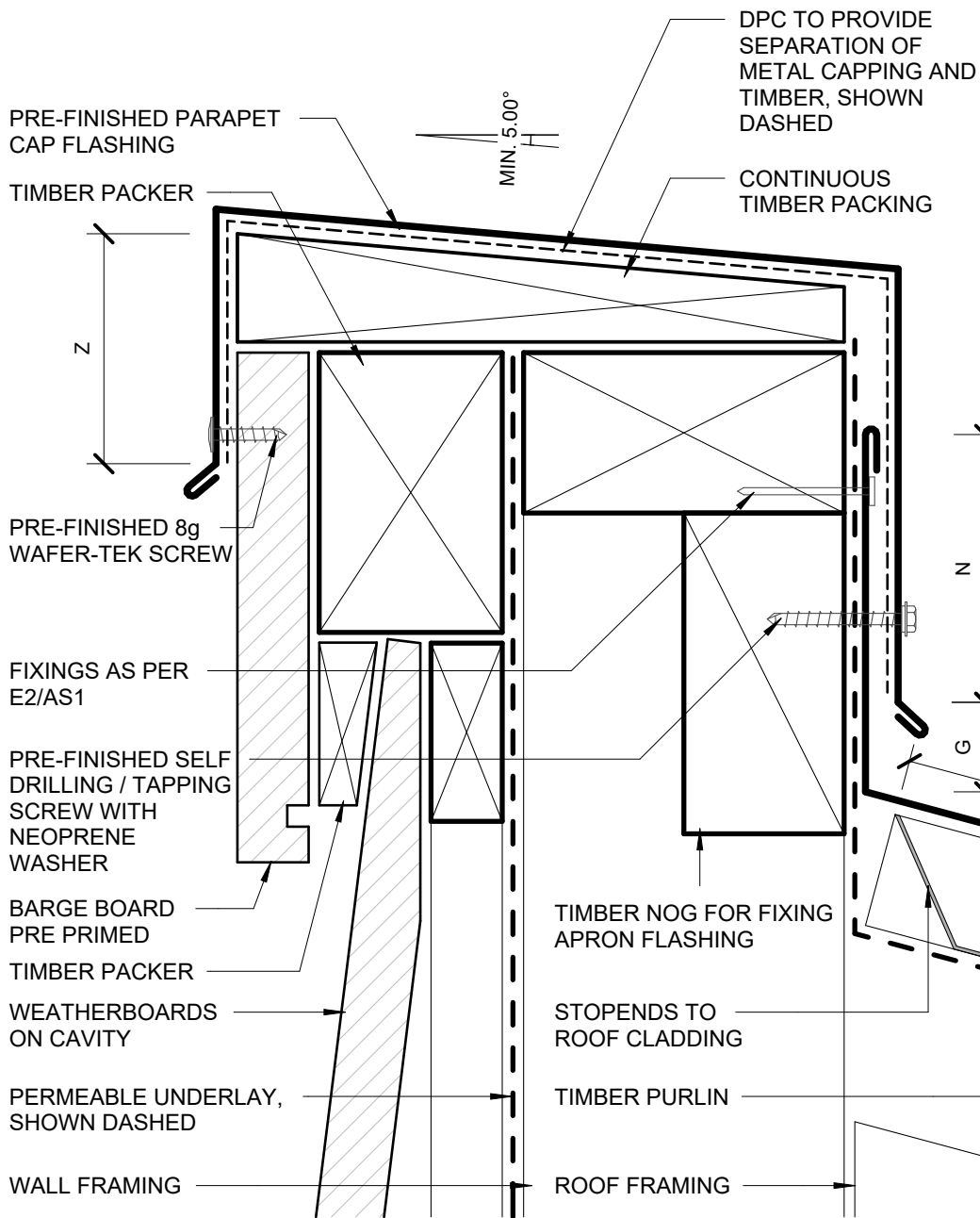
CATEGORY D

SED WIND ZONES UP TO 68 m/s

ALL ROOF PITCH

X TWO RIBS ($< 20\text{mm} > 34\text{mm}$) + UNDERSOAKER
ONE RIB ($< 34\text{mm}$) + UNDERSOAKER
(TRAPEZOIDAL & TRAY)
3 CORRUGATIONS + UNDERSOAKER

Z MIN. 75mm (VERTICALLY DOWN FACE -
SMOOTH)
MIN. 125mm (VERTICALLY DOWN FACE -
PROFILED)

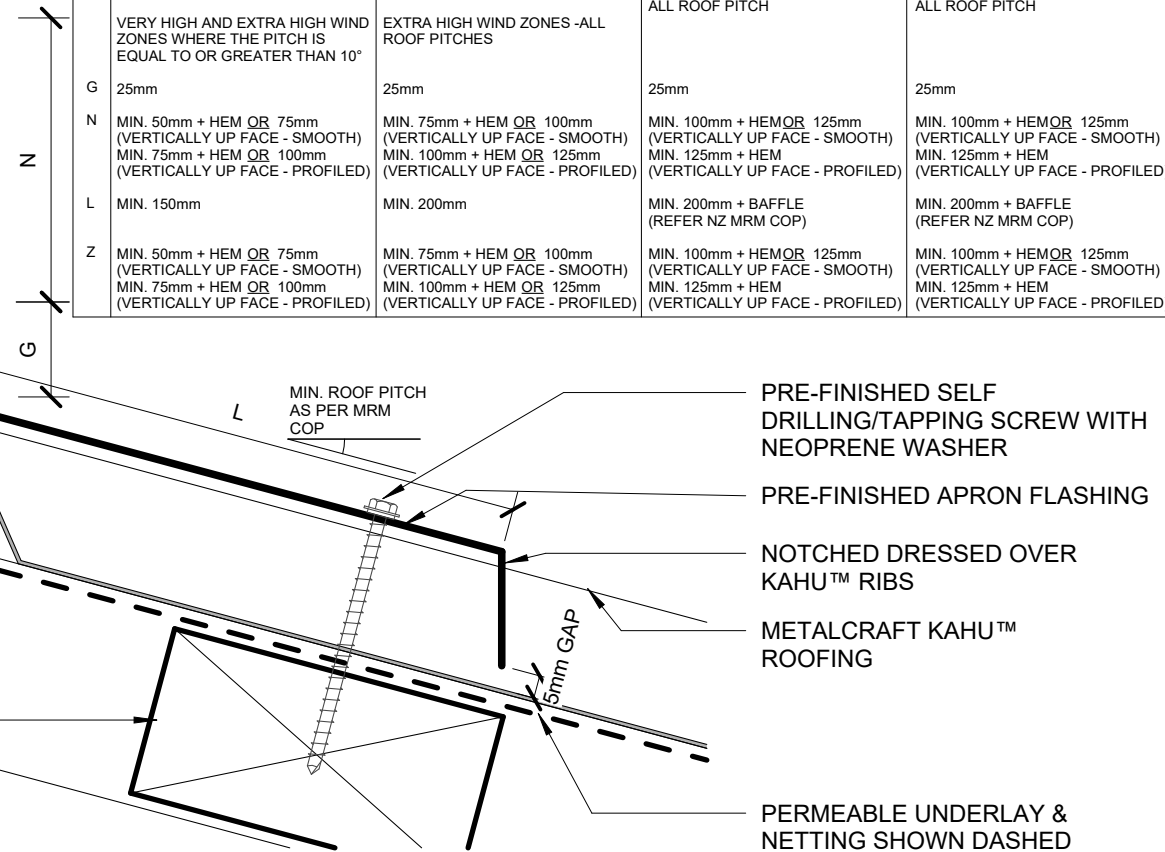


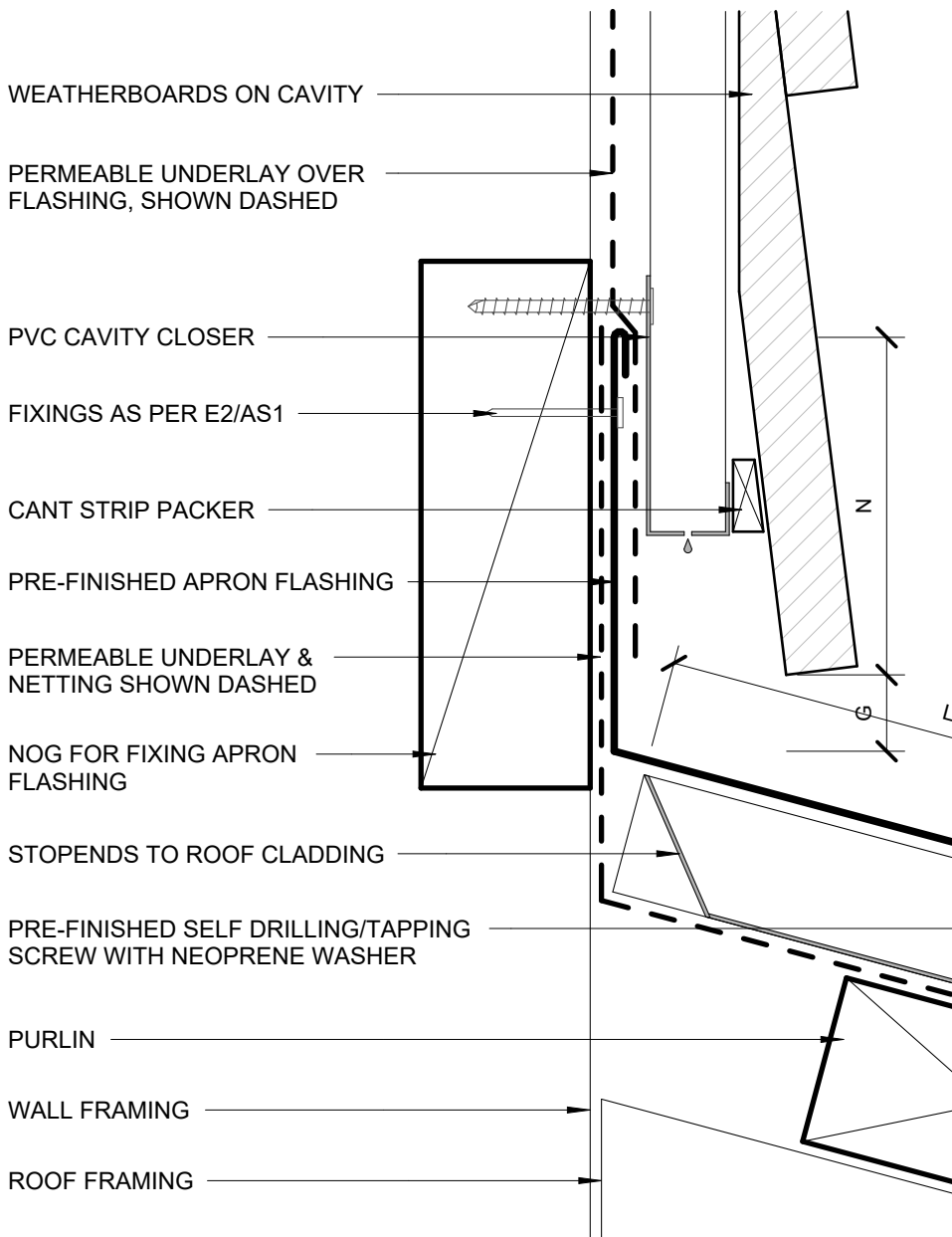
AS PER E2/AS1

	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 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)
L	MIN. 150mm	MIN. 200mm	MIN. 200mm + BAFFLE (REFER NZ MRM COP)	MIN. 200mm + BAFFLE (REFER NZ MRM COP)
Z	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)



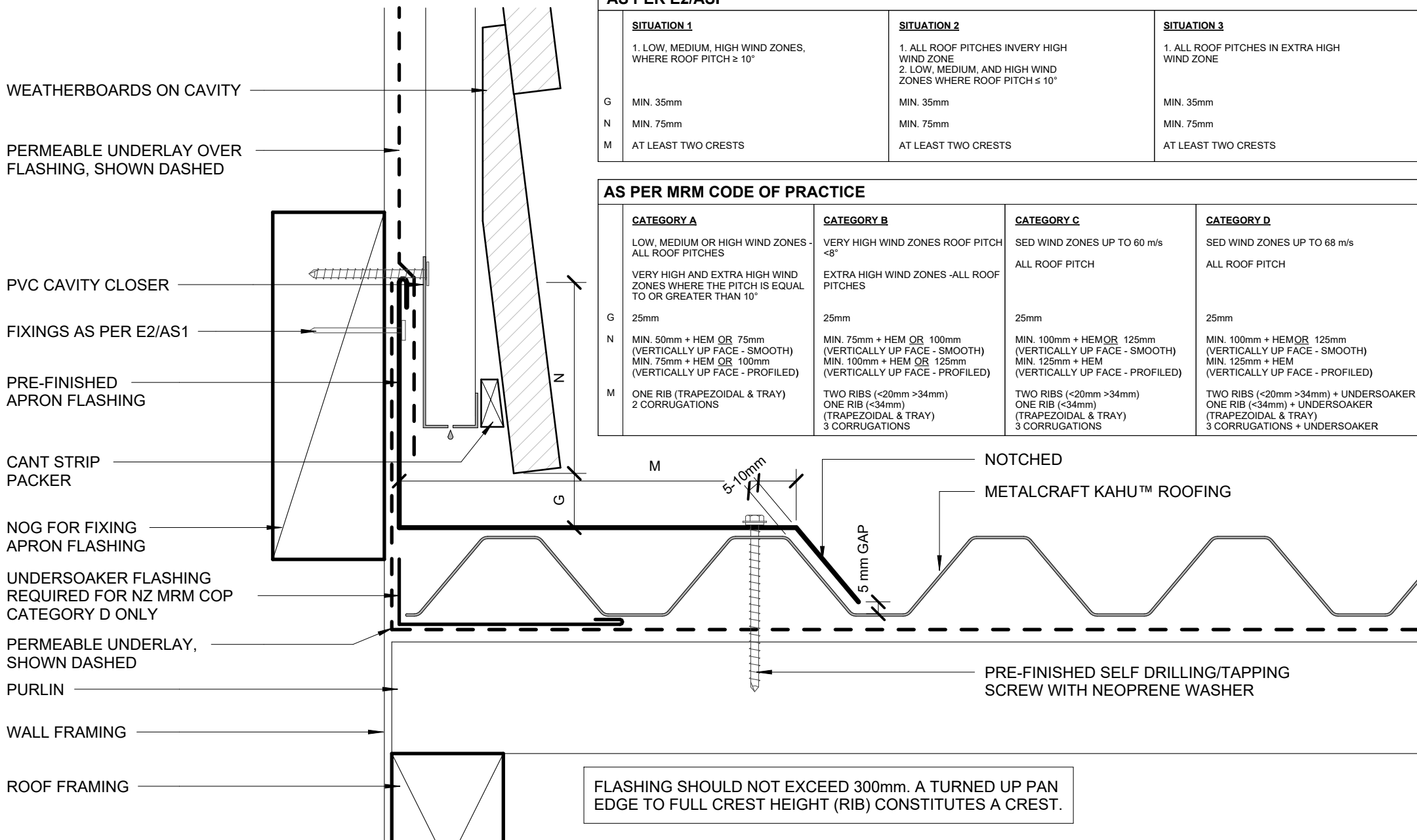


AS PER E2/AS1

	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 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	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)

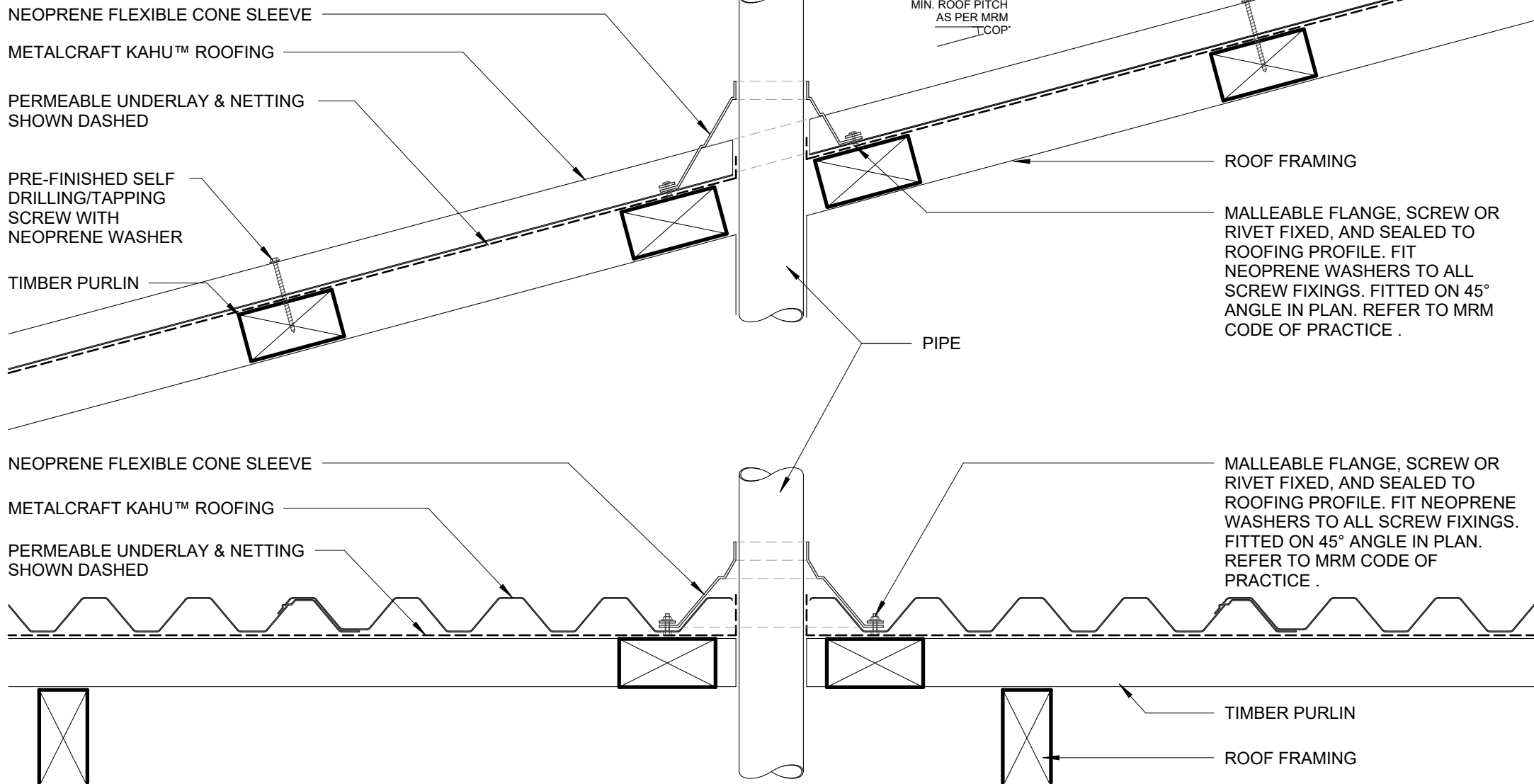
AS PER MRM CODE OF PRACTICE

	CATEGORY A	CATEGORY B	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)
L	MIN. 150mm	MIN. 200mm	MIN. 200mm + BAFFLE (REFER NZ MRM COP)	MIN. 200mm + BAFFLE (REFER NZ MRM COP)



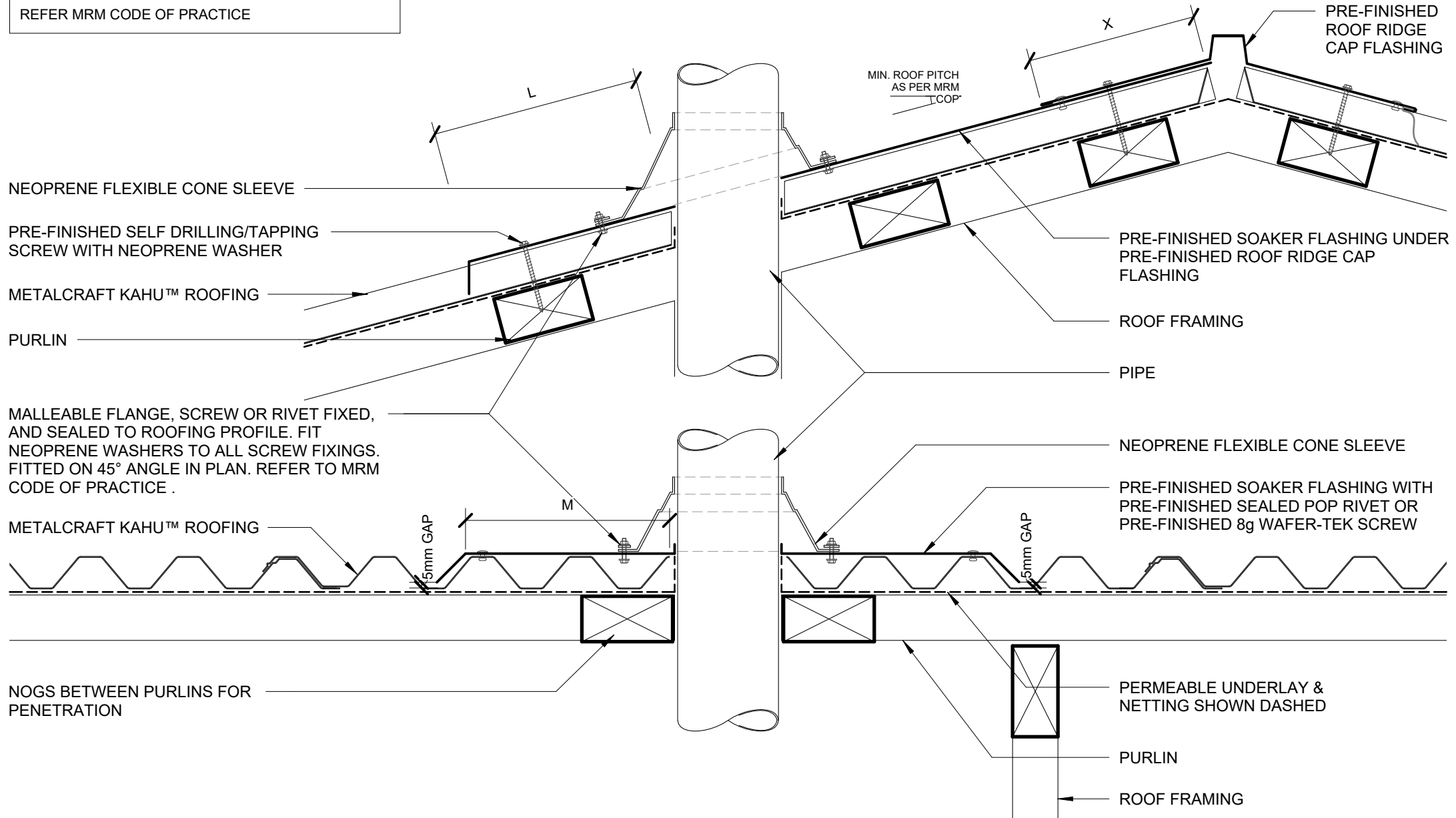
* MIN. 10° FOR PIPE PENETRATION. DIRECT FIX BOOT FLASHING IS APPLICABLE FOR WHEN LESS THAN 50% BLOCKAGE OCCURS. WHEN EXCEEDING 50% BLOCKAGE, REFER TO BACK TRAY BOOT FLASHING

REFER MRM CODE OF PRACTICE

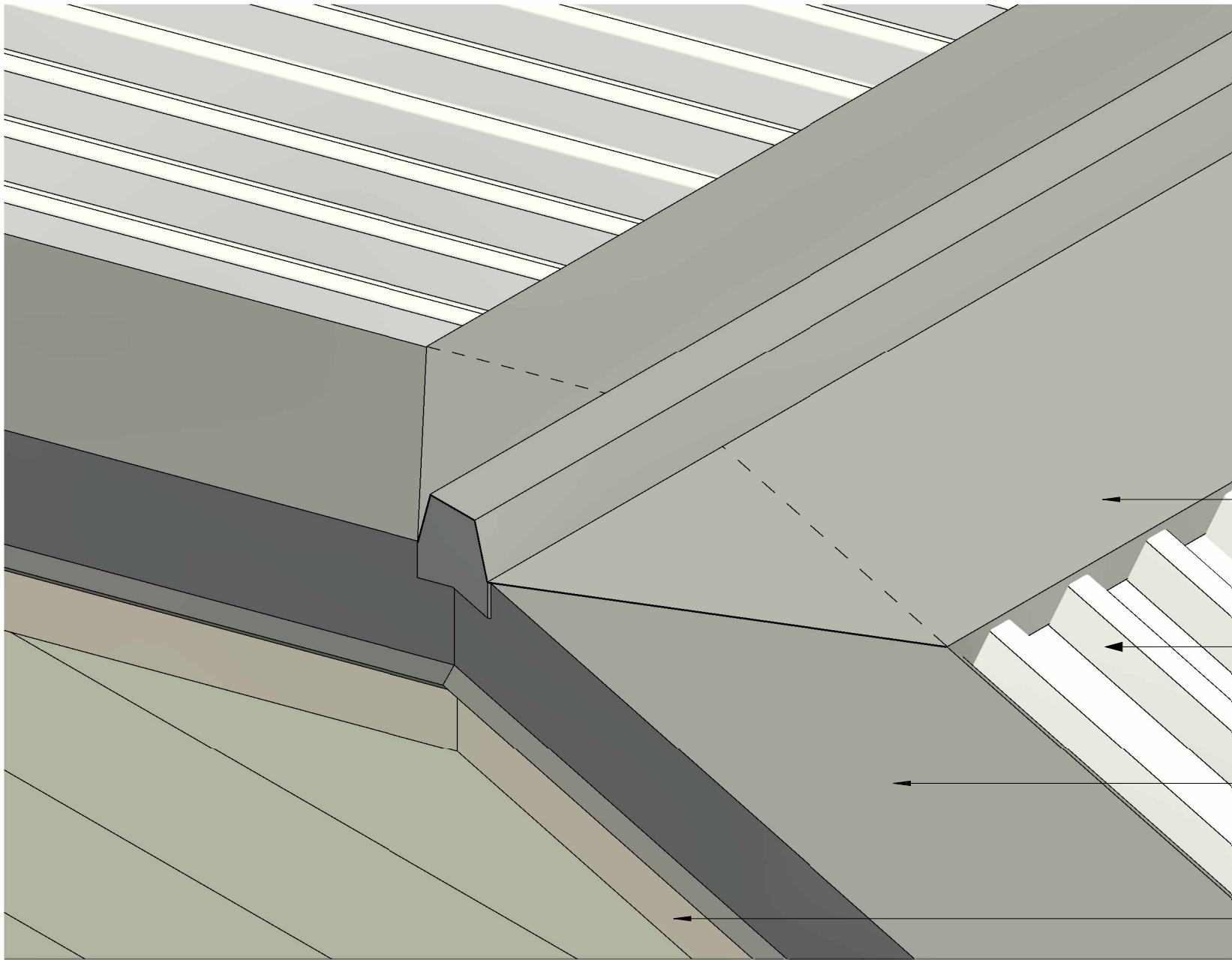


* MIN. 3° FOR PIPE PENETRATION WITH A BOOT FLASHING WITH A BACKTRAY.

REFER MRM CODE OF PRACTICE



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

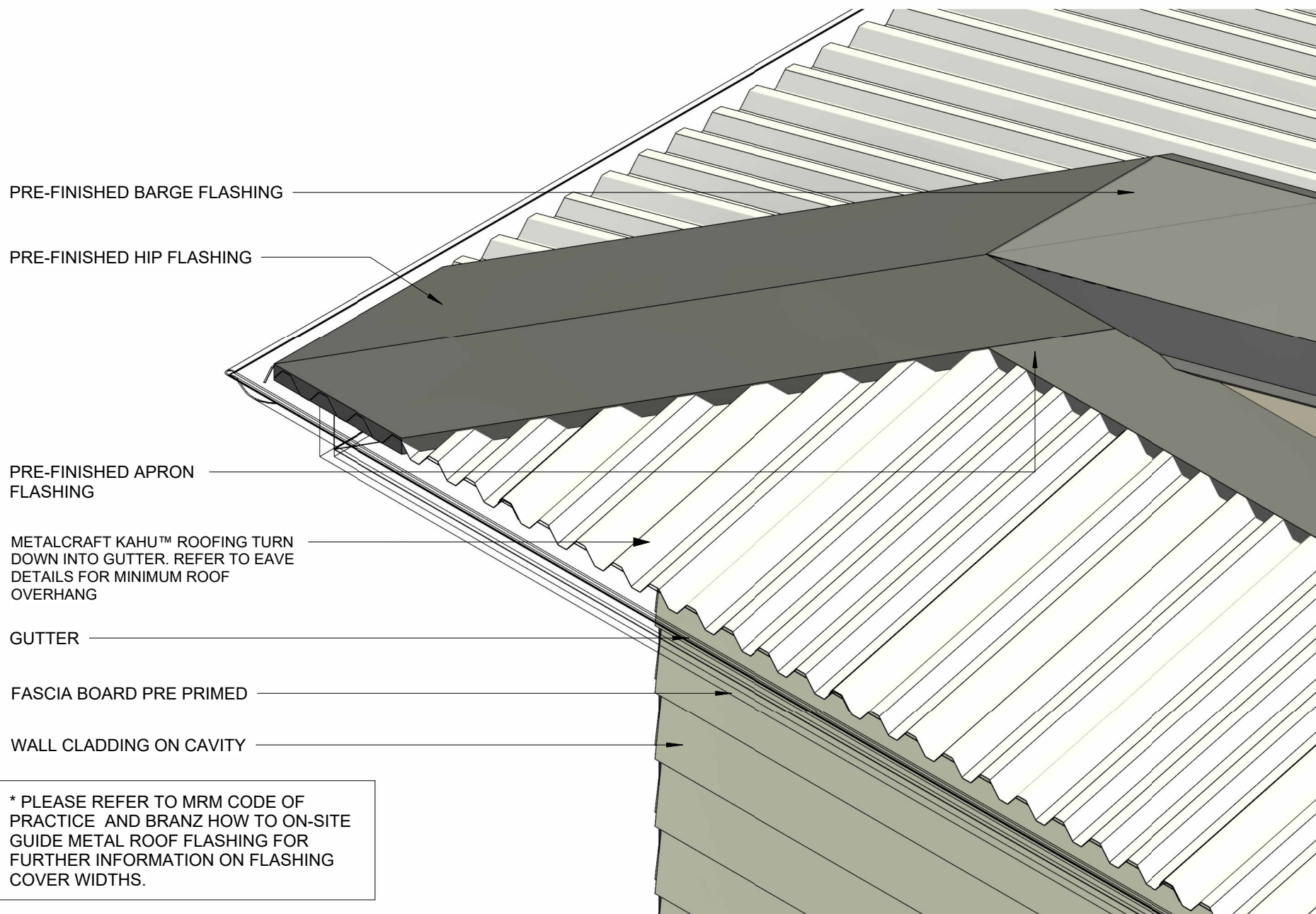


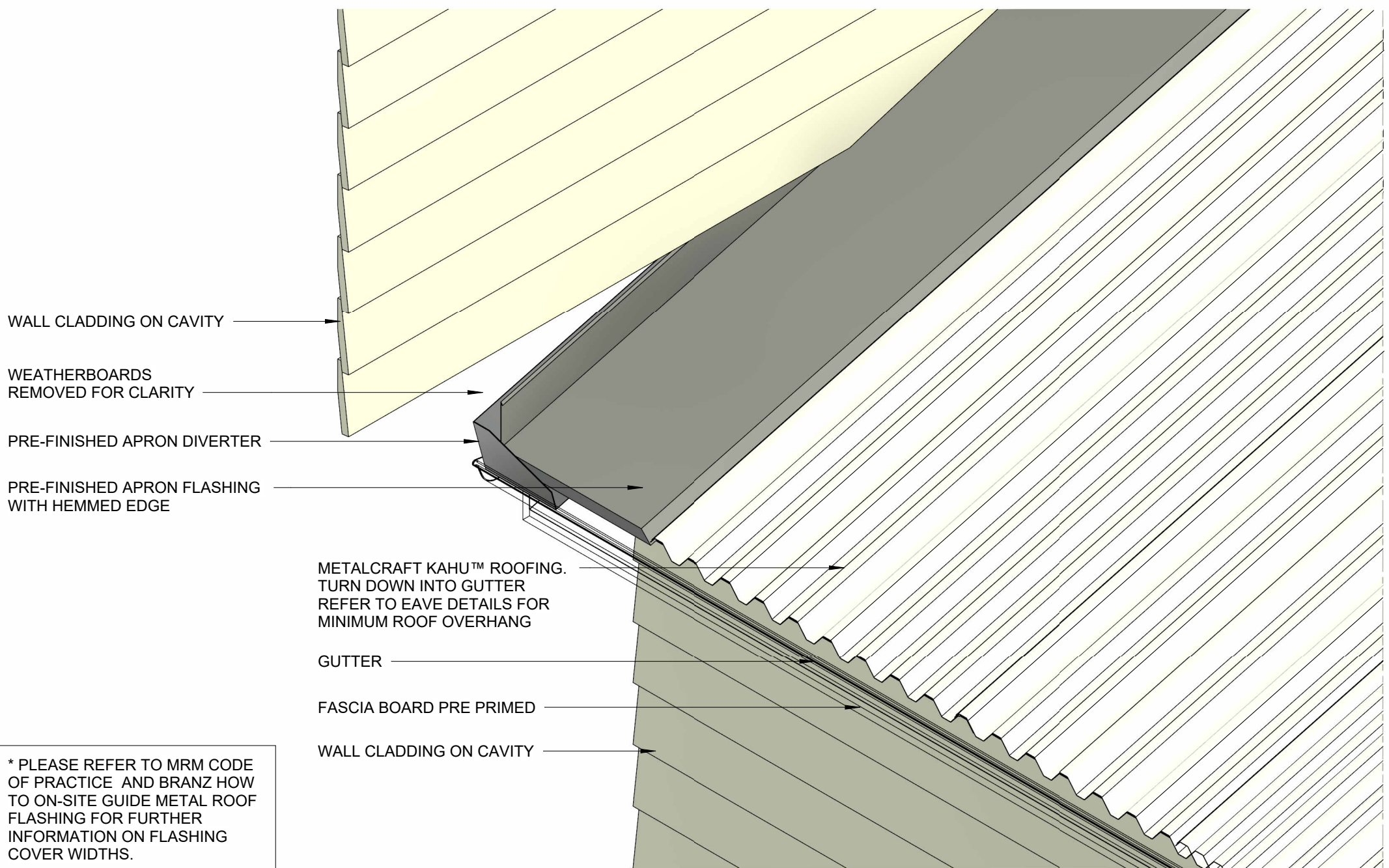
PRE-FINISHED RIDGE CAP FLASHING

METALCRAFT KAHU™ ROOFING

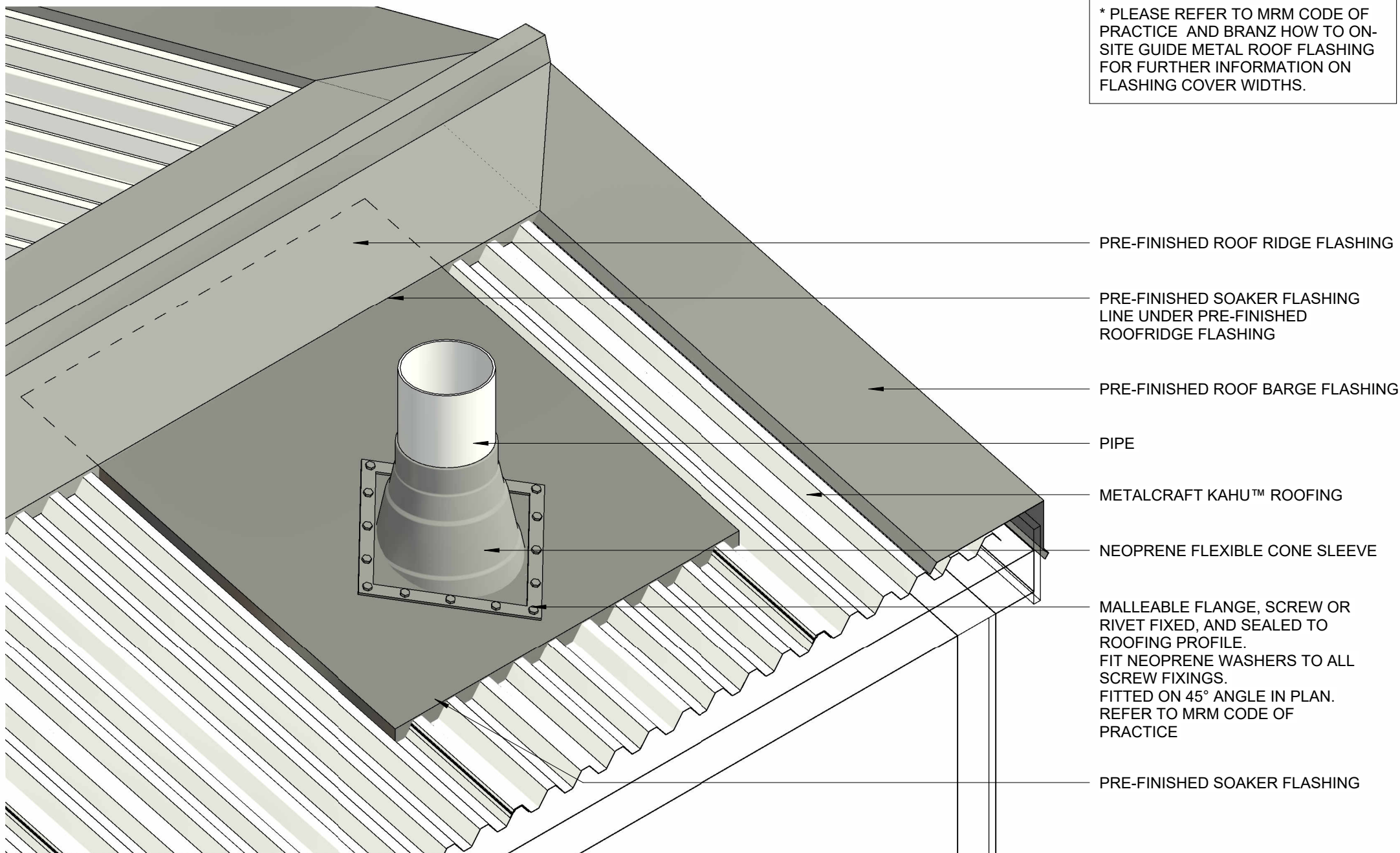
PRE-FINISHED BARGE FLASHING

FASCIA BOARD PRE PRIMED





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



3D OVER 85mm DIAMETER PIPE PENETRATION

KAHU

Rev. 2.0

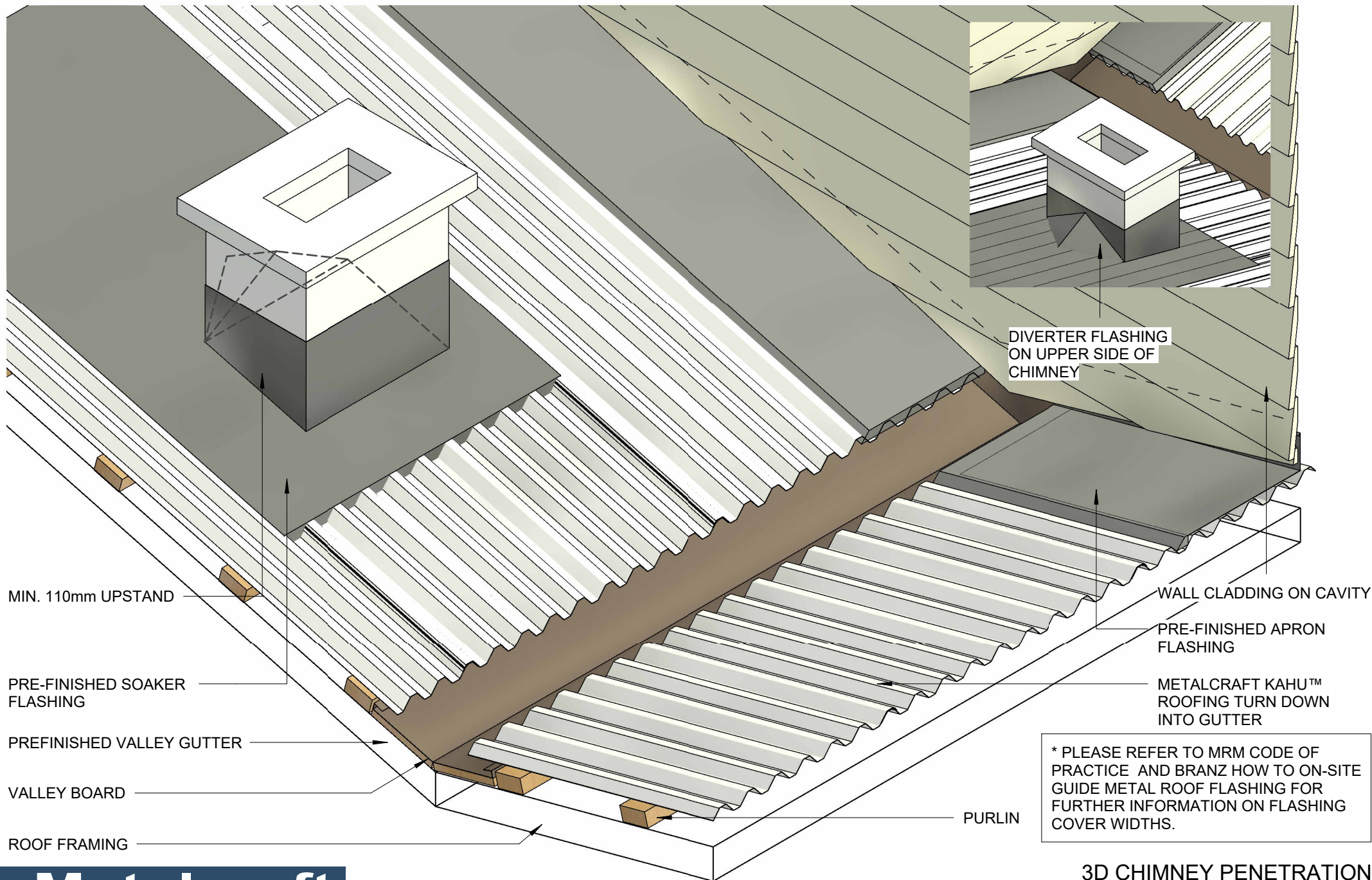
RESIDENTIAL ROOFING

Reference RRKA

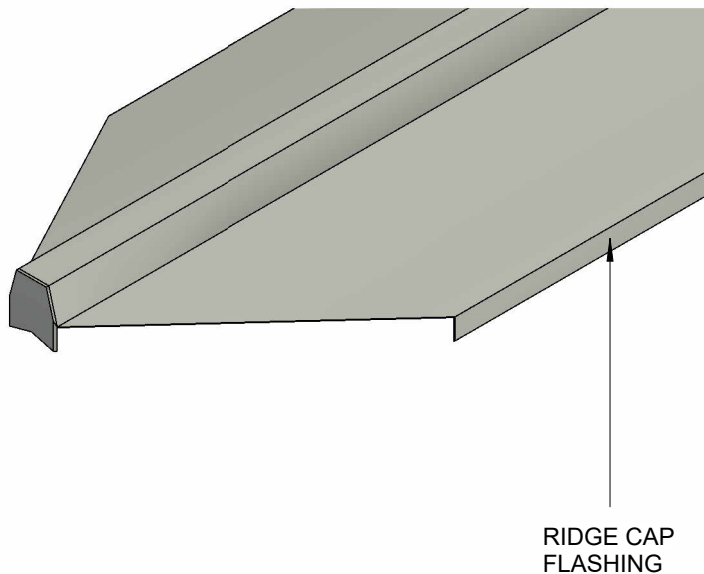
Date JUNE 2024

Scale

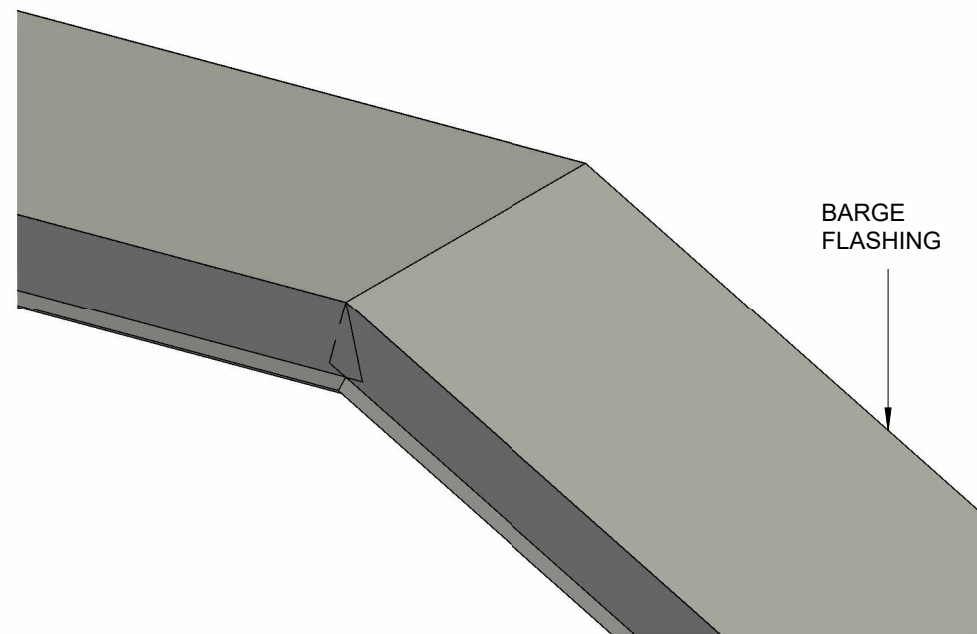
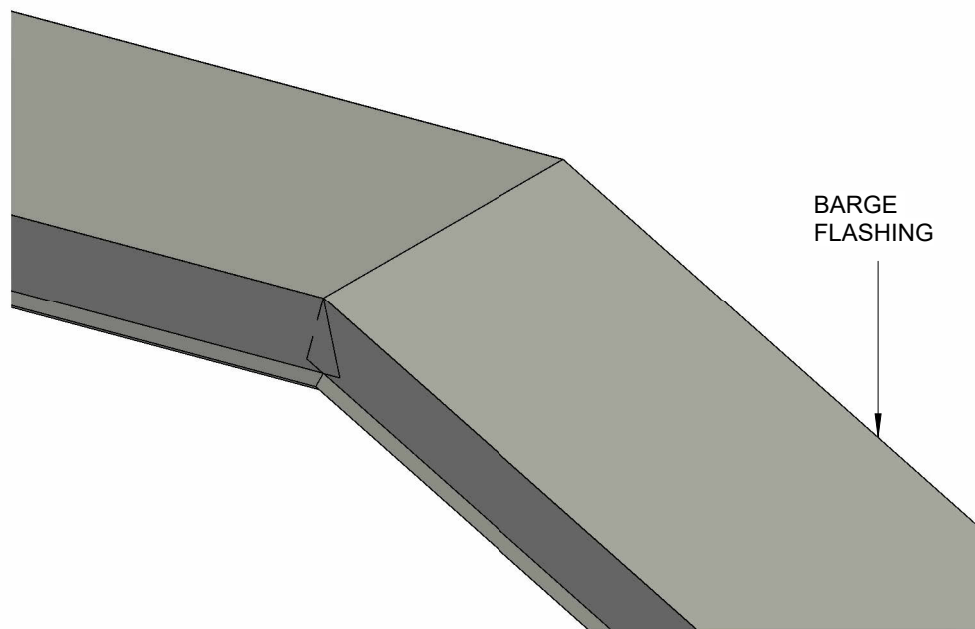
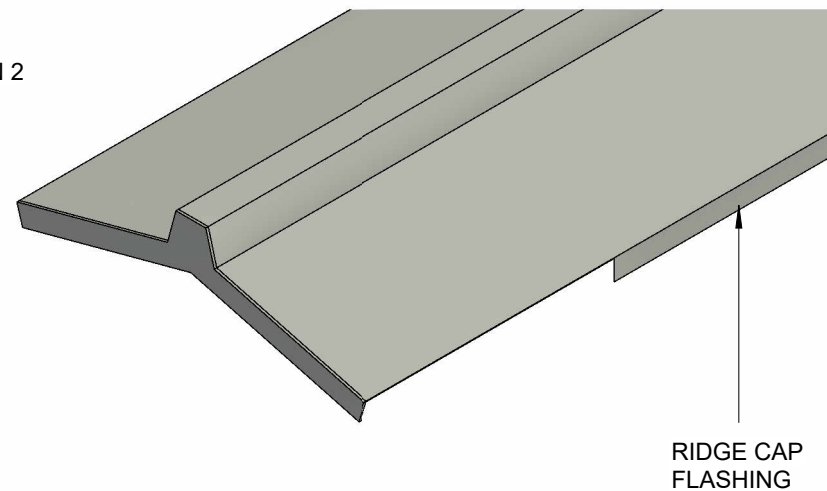
Sheet **A 23 / 26**



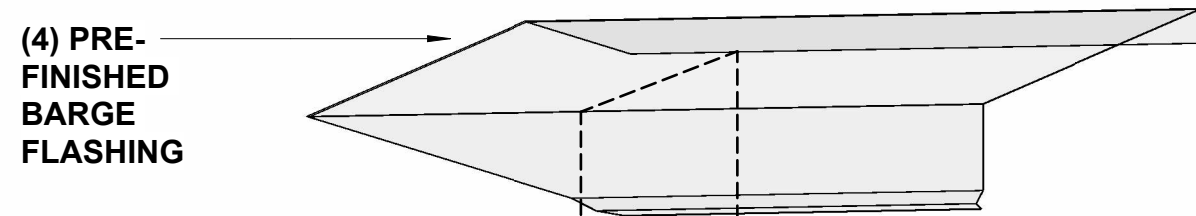
OPTION 1



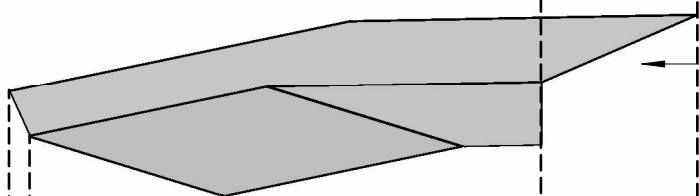
OPTION 2



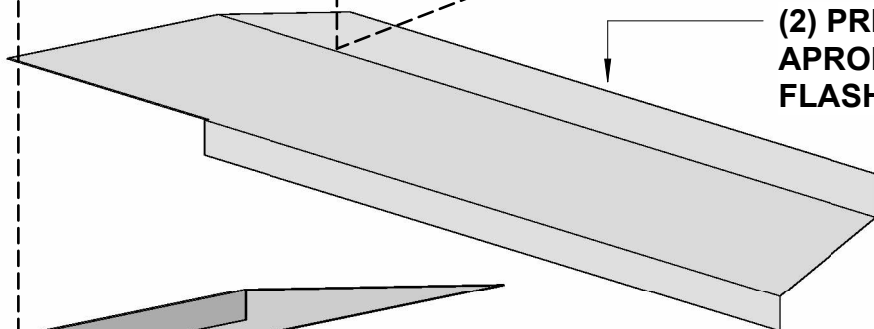
**(4) PRE-FINISHED
BARGE
FLASHING**



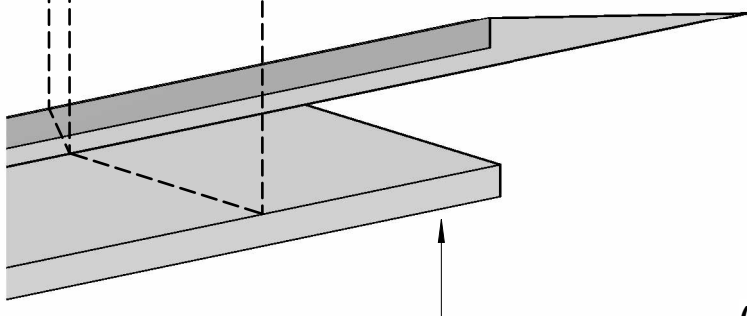
**(3) PRE-FINISHED
3D SADDLE
FLASHING**



**(2) PRE-FINISHED
APRON
FLASHING**



(1) PRE-FINISHED HIP FLASHING



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

