

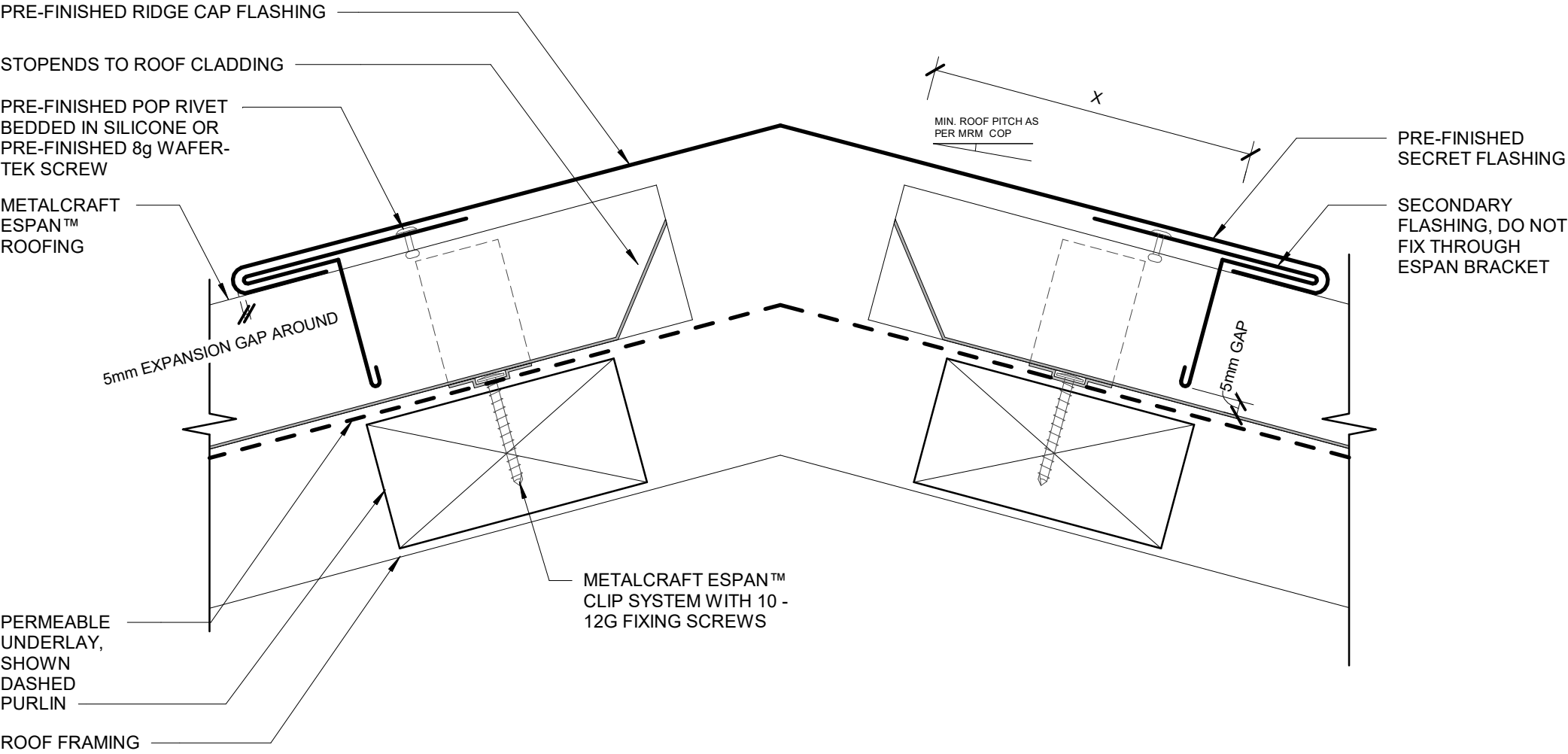
Espan 340[®] / 470[®]

RESIDENTIAL ROOFING

DETAIL LIST		Revision	Date
A 01	RIDGE FLASHING	2.0	FEB 2022
A 02	SAWTOOTH RIDGE	2.0	FEB 2022
A 03	SAWTOOTH EAVE	2.0	FEB 2022
A 04	ROOF VALLEY	2.0	FEB 2022
A 05	CHANGE IN PITCH	2.0	FEB 2022
A 06	EAVE WITH ROUND GUTTER	2.0	FEB 2022
A 07	EAVE WITH SQUARE	2.0	FEB 2022
A 08	BARGE FLASHING	2.0	FEB 2022
A 09	PARAPET WITH TRANSVERSE APRON	2.0	FEB 2022
A 10	TRANSVERSE APRON	2.0	FEB 2022
A 11	PARALLEL APRON	2.0	FEB 2022
A 12	PIPE PENETRATION DIRECT FIXED BOOT FLASHING	2.0	FEB 2022
A 13	PIPE PENETRATION BACK TRAY BOOT FLASHING	2.0	FEB 2022
A 14	3D RIDGE TO BARGE JUCTION	2.0	FEB 2022
A 15	3D DUTCH GABLE	2.0	FEB 2022
A 16	3D APRON	2.0	FEB 2022
A 17	3D BACK TRAY PENETRATION	2.0	FEB 2022
A 18	3D CHIMNEY PENETRATION	2.0	FEB 2022
A 19	PARALLEL HIDDEN GUTTER	2.0	FEB 2022
A 20	PARALLEL HIDDEN GUTTER (2 PART FLASHING)	2.0	FEB 2022

ACCEPTABLE SOLUTION AS PER E2/AS1			
	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	MIN. 200mm	MIN. 200mm
Z	MIN. 50mm	MIN. 70mm	MIN. 90mm

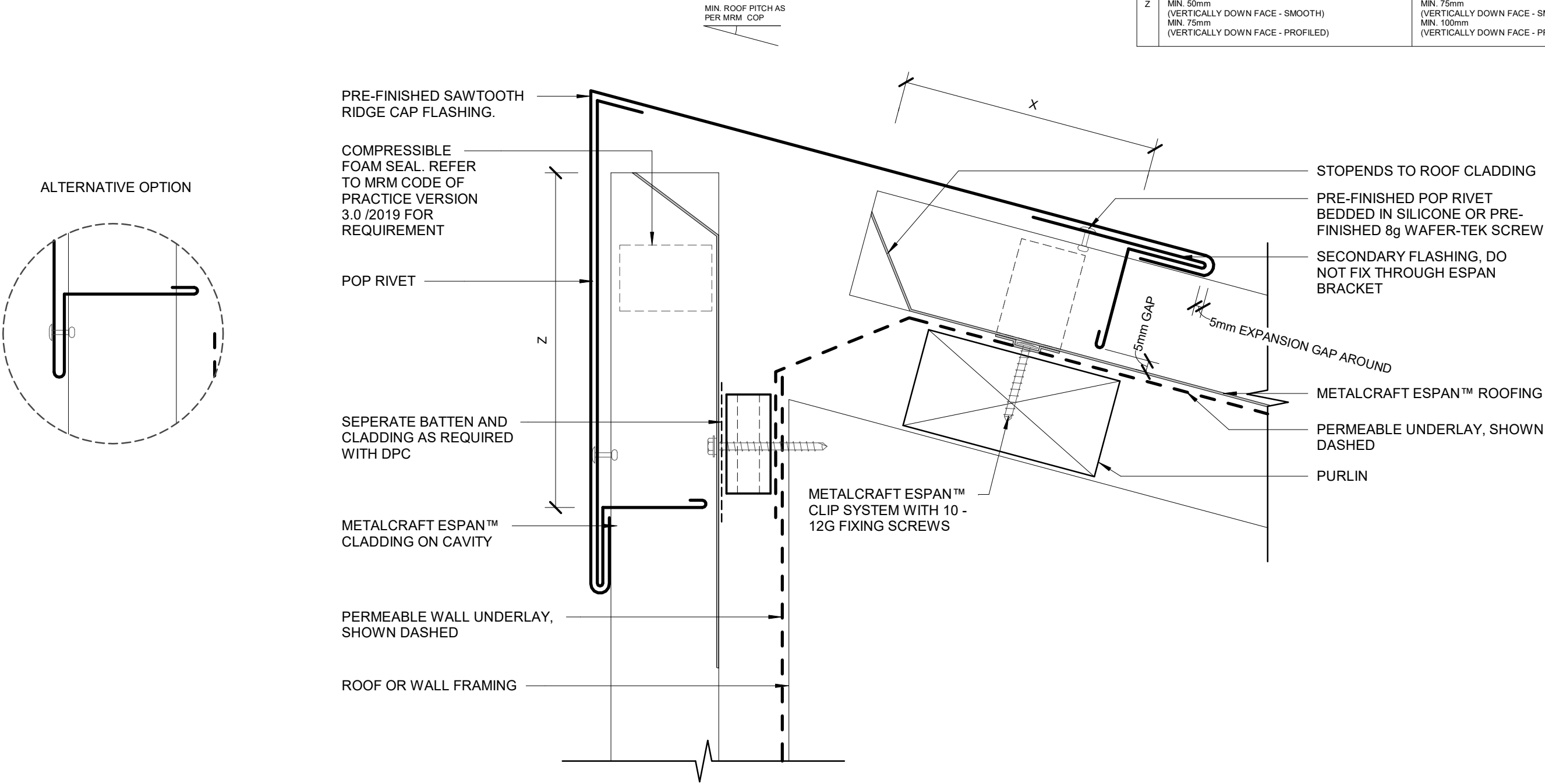
ALTERNATIVE SOLUTION AS PER MRM CODE OF PRACTICE	
	CATEGORY A
	1. NORMAL EXPOSURE 2. ROOF PITCH >10°
X	MIN. 130mm
Z	MIN. 50mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 75mm (VERTICALLY DOWN FACE - PROFILED)
	CATEGORY B
	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°
	MIN. 200mm
	MIN. 75mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 100mm (VERTICALLY DOWN FACE - PROFILED)



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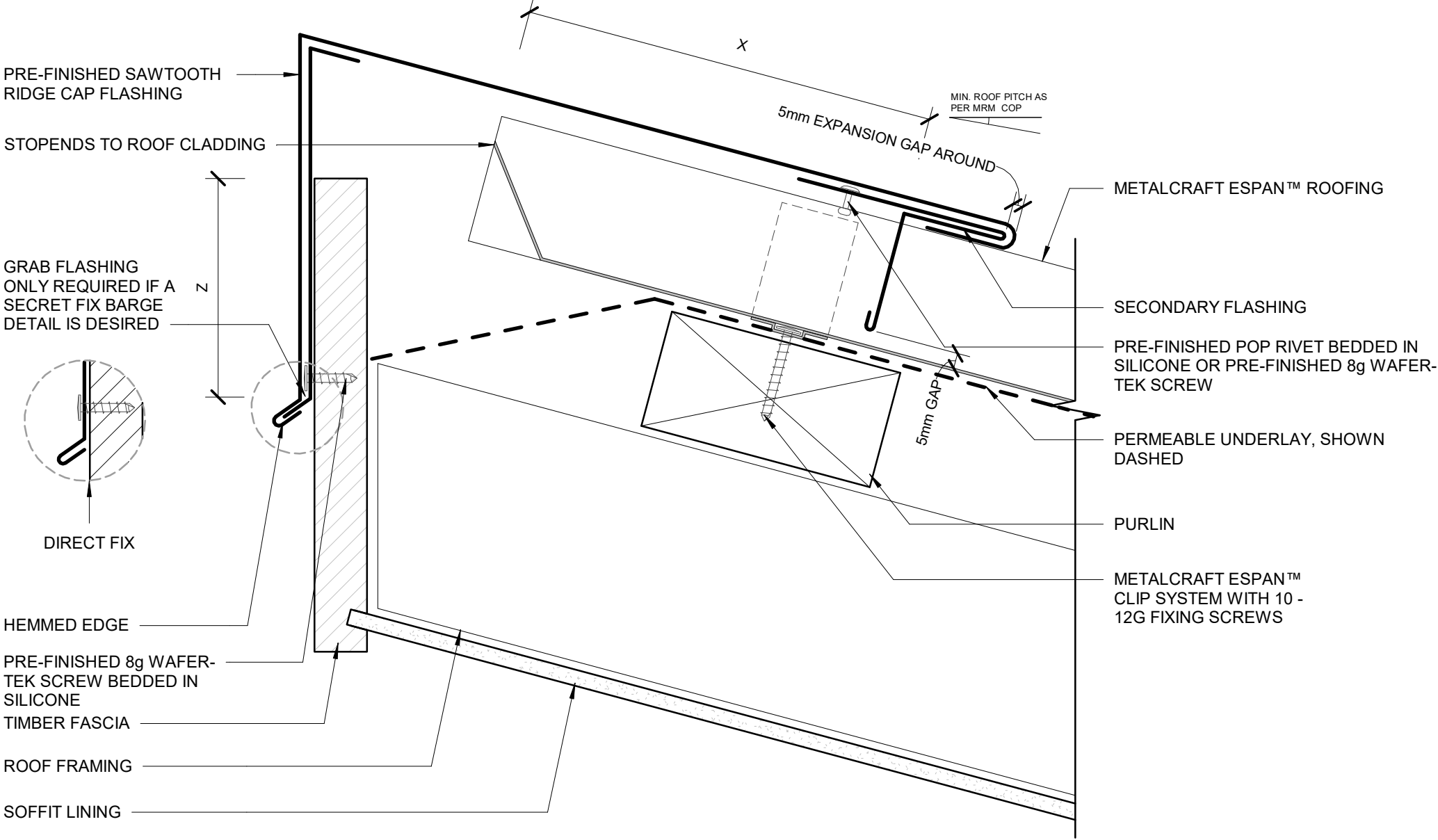
ACCEPTABLE SOLUTION AS PER E2/AS1			
	SITUATION 1	SITUATION 2	SITUATION 3
	1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH ≥ 10°	1. VERY HIGH WIND ZONE 2. LOW, MEDIUM AND HIGH WIND ZONES WHERE ROOF PITCH ≤ 10°	1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE
X	MIN. 130mm	MIN. 200mm	MIN. 200mm
Z	MIN. 50mm	MIN. 70mm	MIN. 90mm

ALTERNATIVE SOLUTION 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)



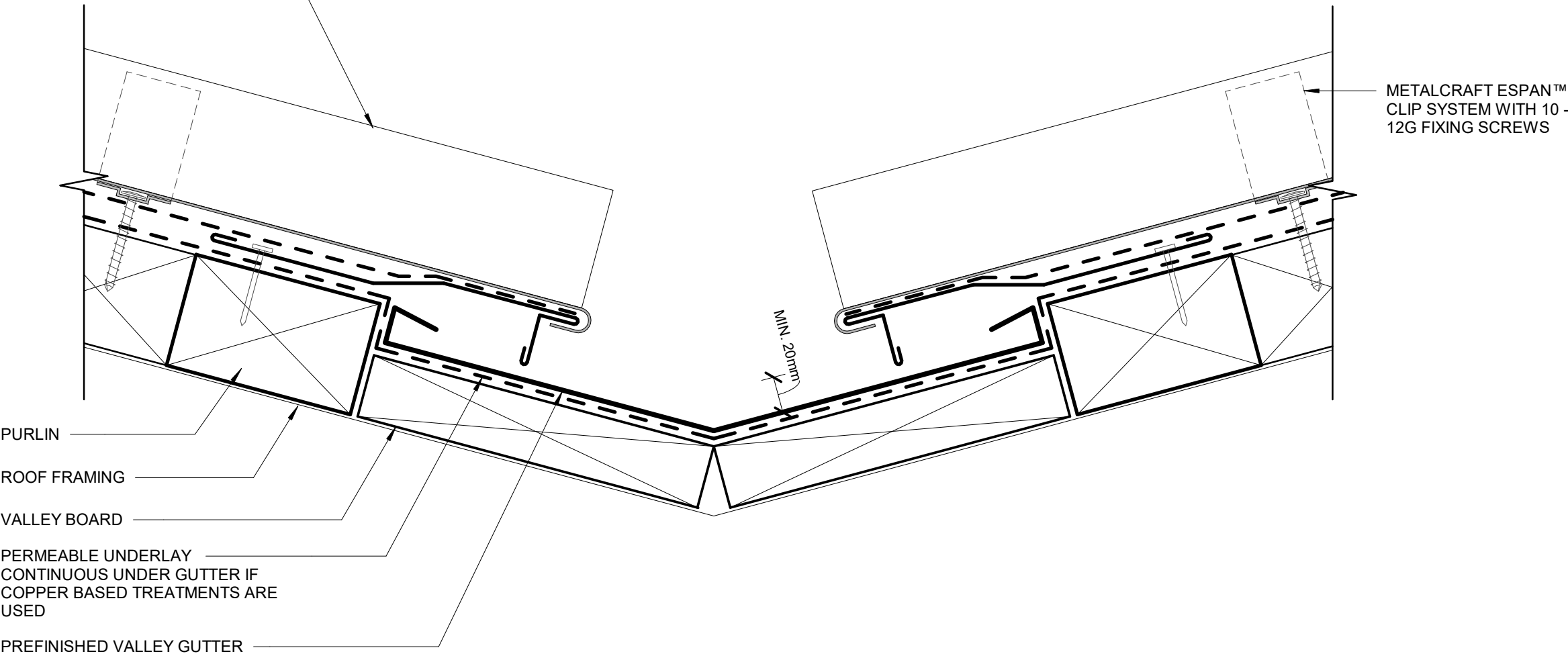
ACCEPTABLE SOLUTION AS PER E2/ASI			
	SITUATION 1	SITUATION 2	SITUATION 3
	1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH ≥ 10°	1. VERY HIGH WIND ZONE 2. LOW, MEDIUM AND HIGH WIND ZONES WHERE ROOF PITCH ≤ 10°	1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE
X	MIN. 130mm	MIN. 200mm	MIN. 200mm
Z	MIN. 50mm	MIN. 70mm	MIN. 90mm

ALTERNATIVE SOLUTION AS PER MRM CODE OF PRACTICE	
	CATEGORY A
	1. NORMAL EXPOSURE 2. ROOF PITCH >10°
X	MIN. 130mm
Z	MIN. 50mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 75mm (VERTICALLY DOWN FACE - PROFILED)
	CATEGORY B
	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°
	MIN. 200mm
	MIN. 75mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 100mm (VERTICALLY DOWN FACE - PROFILED)

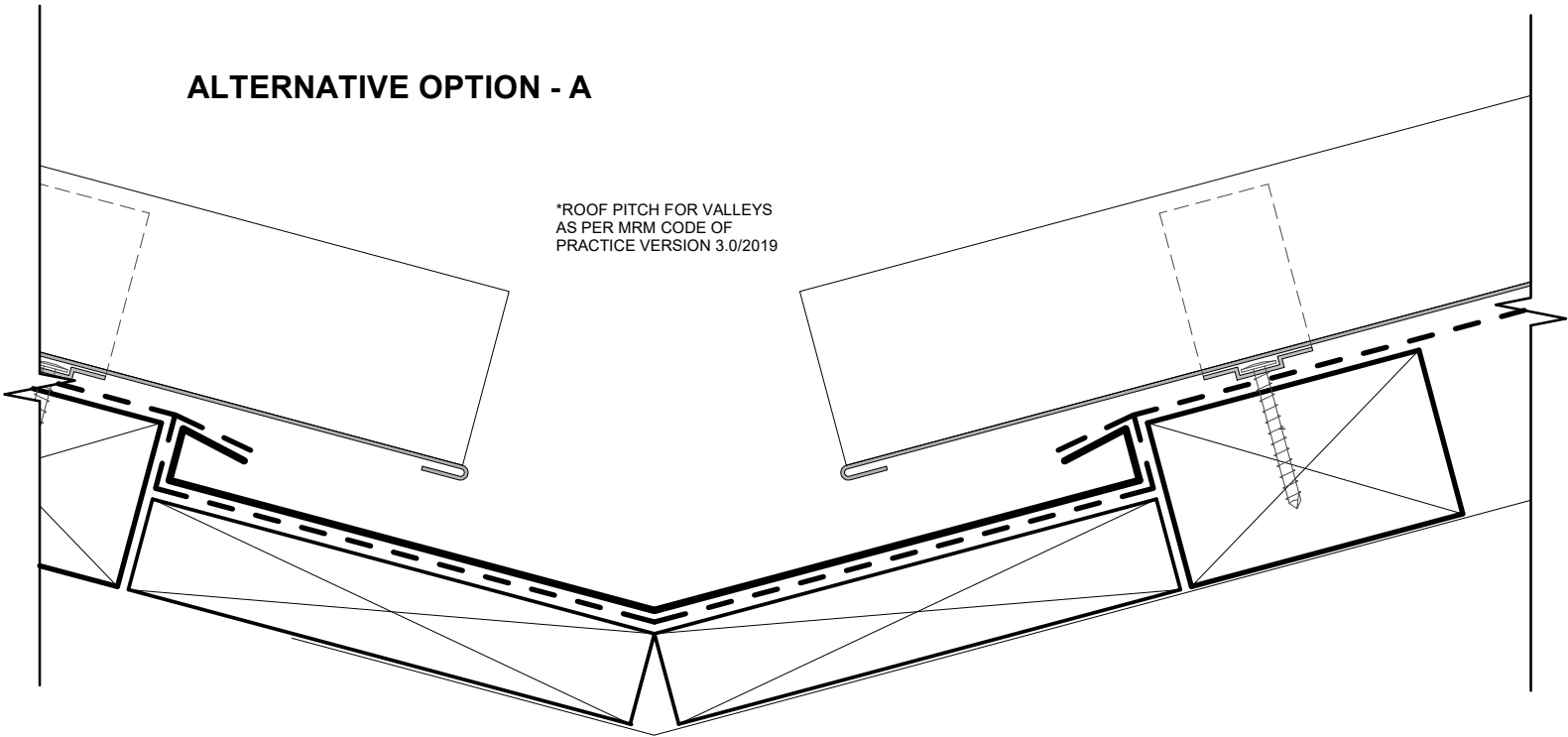


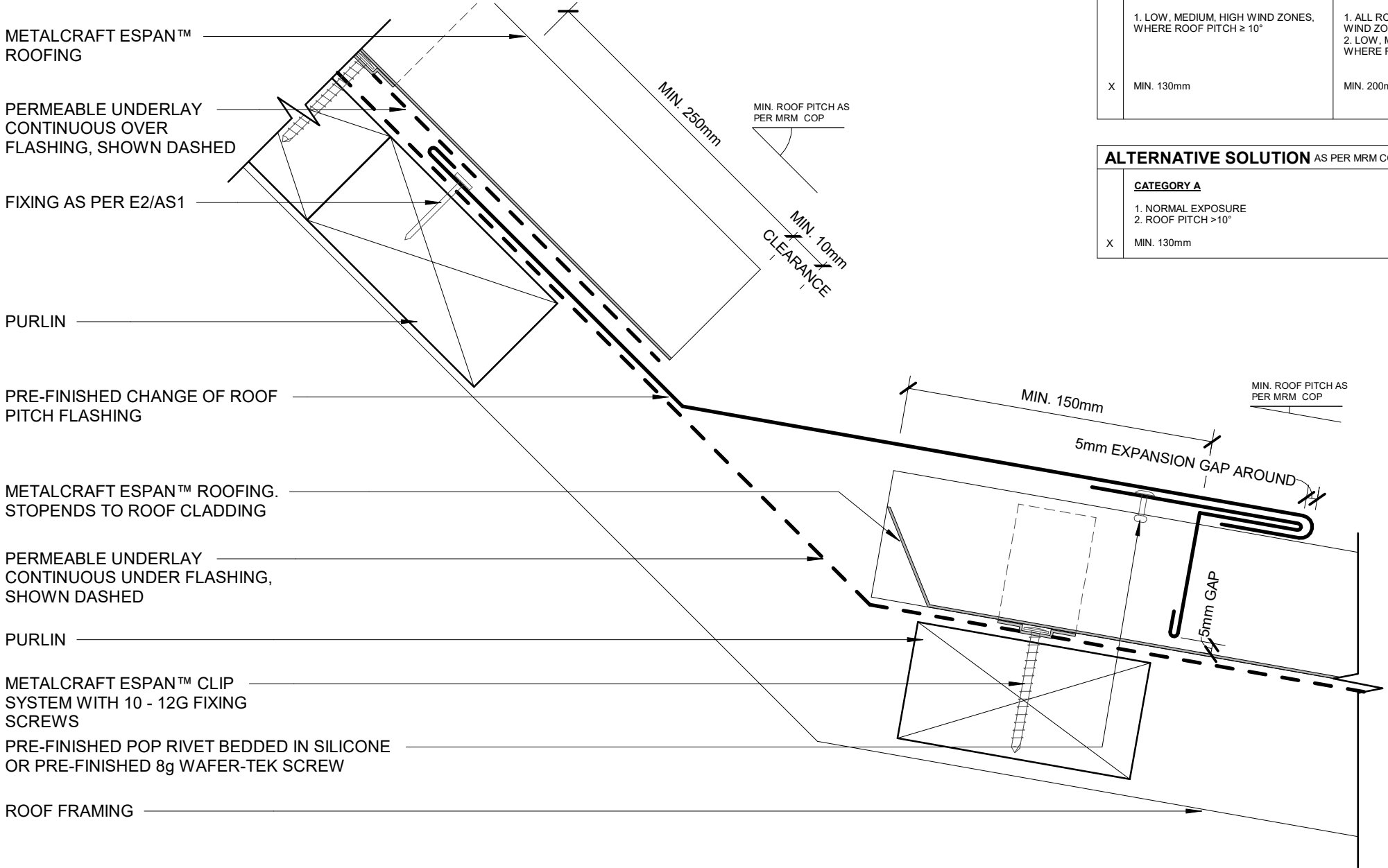
METALCRAFT ESPAN™
ROOFING

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



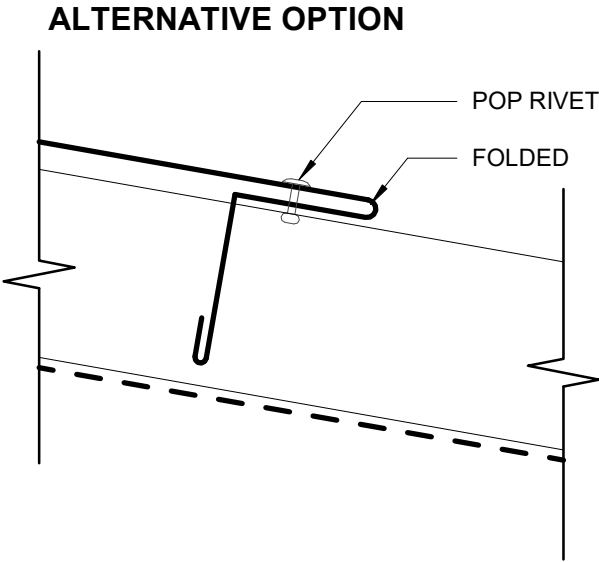
ALTERNATIVE OPTION - A

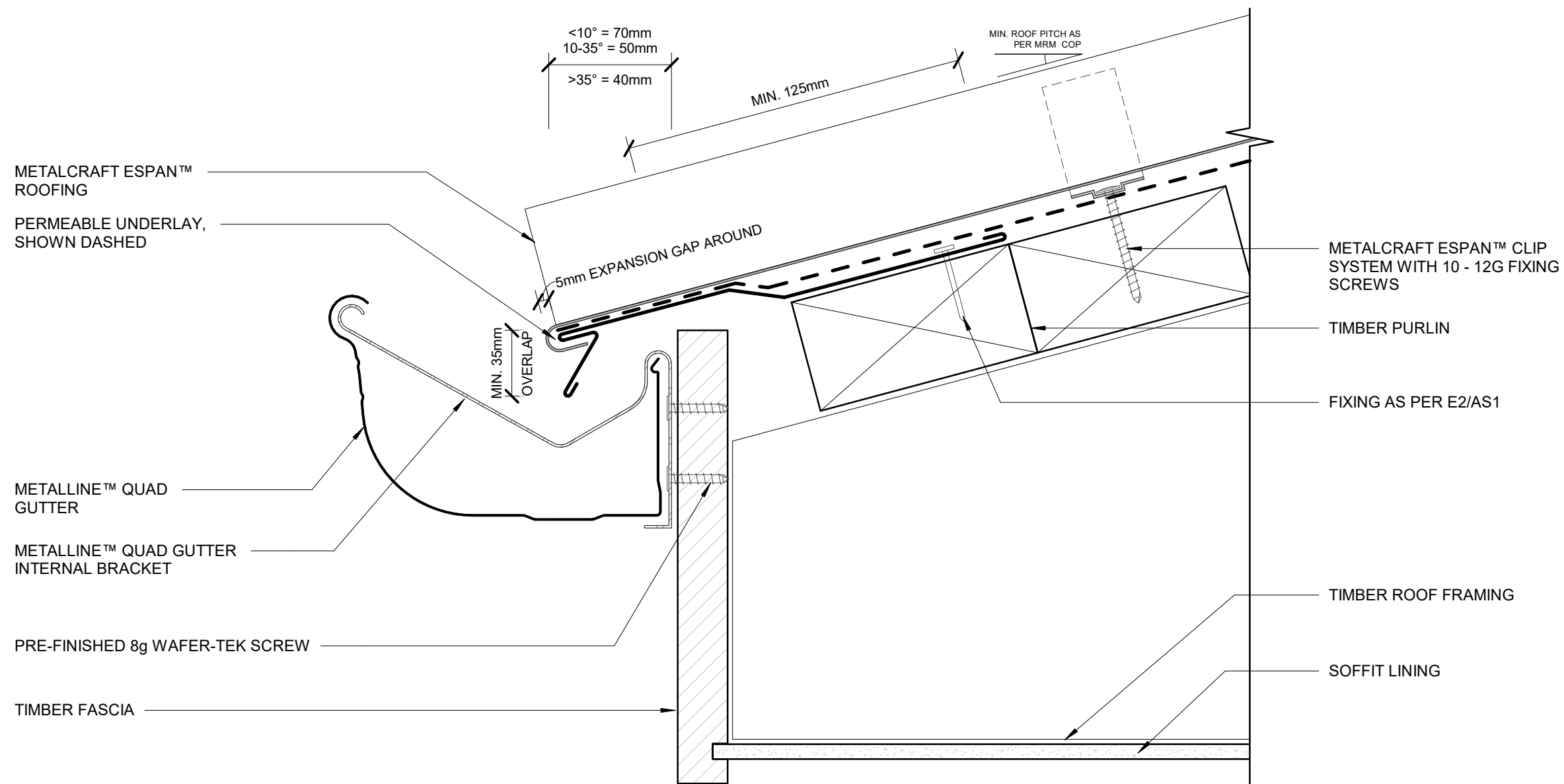




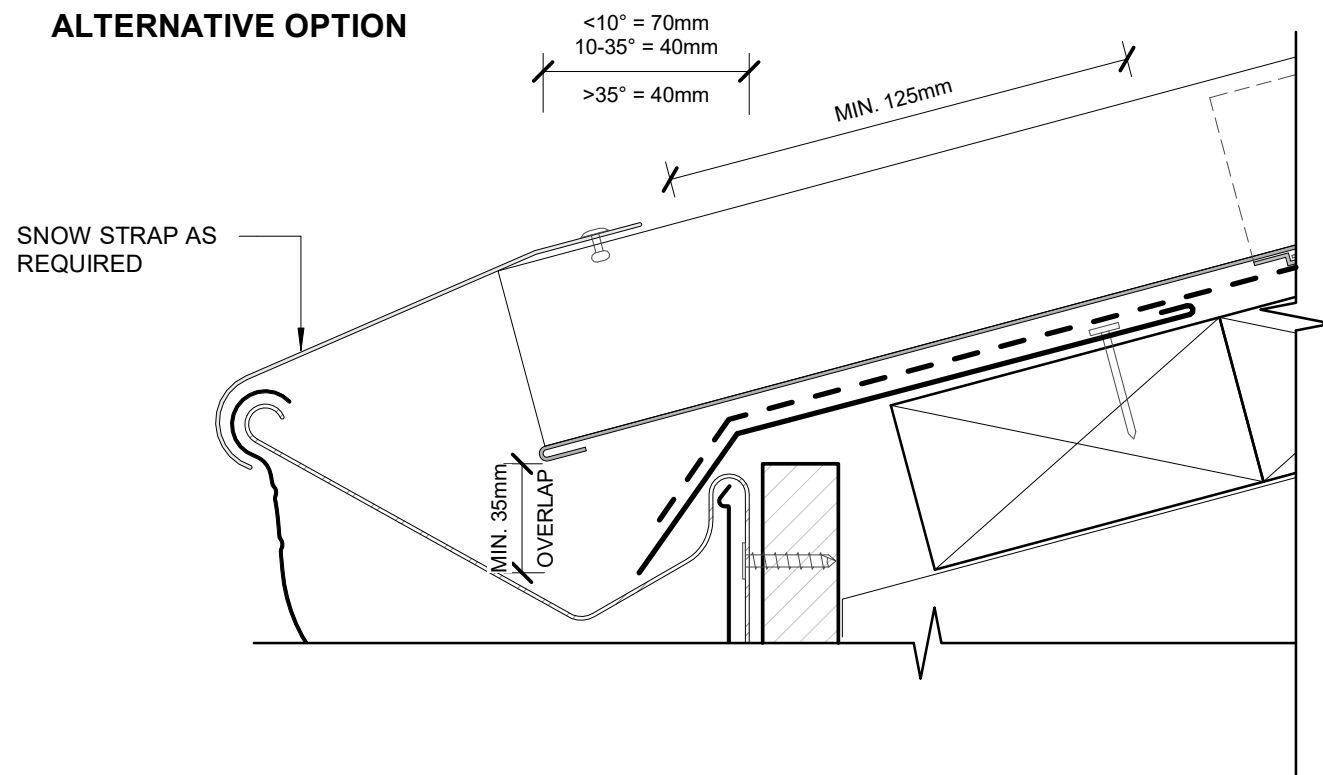
ACCEPTABLE SOLUTION AS PER E2/AS1			
	SITUATION 1	SITUATION 2	SITUATION 3
	1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH ≥ 10°	1. ALL ROOF PITCHES IN VERY HIGH WIND ZONE 2. LOW, MEDIUM, HIGH WIND ZONES WHERE ROOF PITCH ≤ 10°	1. NOT PERMITTED UNDER E2/AS1
X	MIN. 130mm	MIN. 200mm	

ALTERNATIVE SOLUTION 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





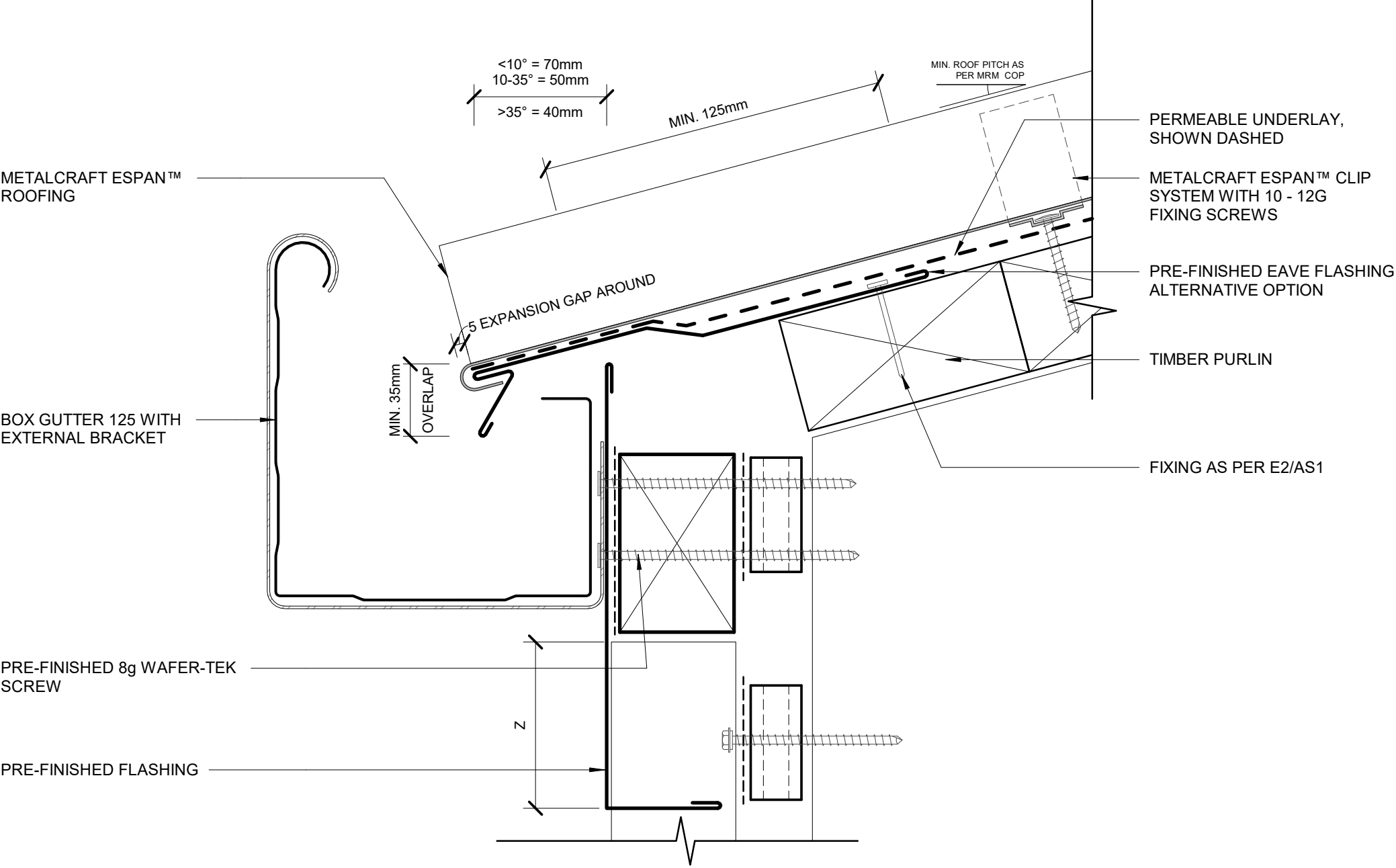
ALTERNATIVE OPTION



ACCEPTABLE SOLUTION AS PER E2/AS1			
	SITUATION 1	SITUATION 2	SITUATION 3
	1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH ≥ 10°	1. ALL ROOF PITCHES IN VERY HIGH WIND ZONE 2. LOW, MEDIUM, HIGH WIND ZONES WHERE ROOF PITCH ≤ 10°	1. FOR ALL ROOF PITCHES IN EXTRA HIGH WIND ZONES
Z	MIN. 50mm	MIN. 70mm	MIN. 90mm

ALTERNATIVE SOLUTION 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°	
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)	

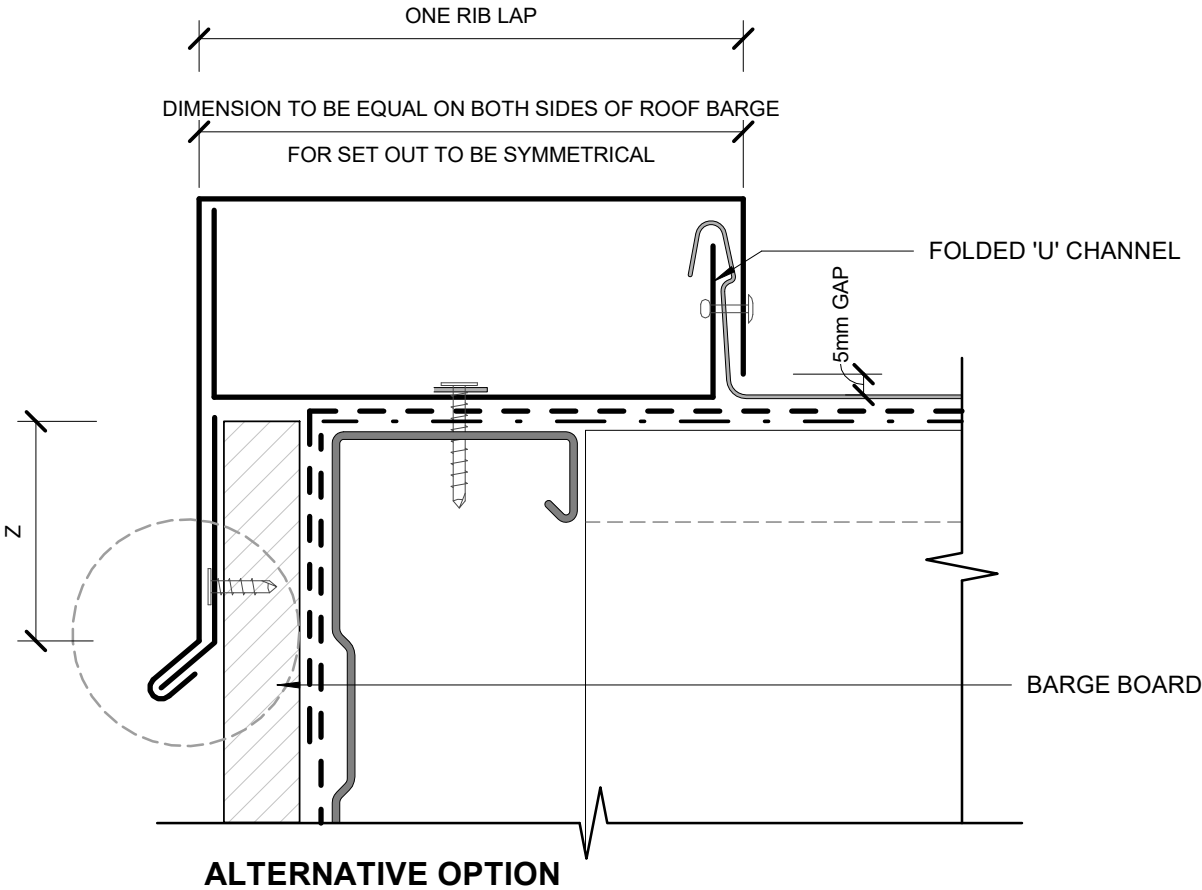
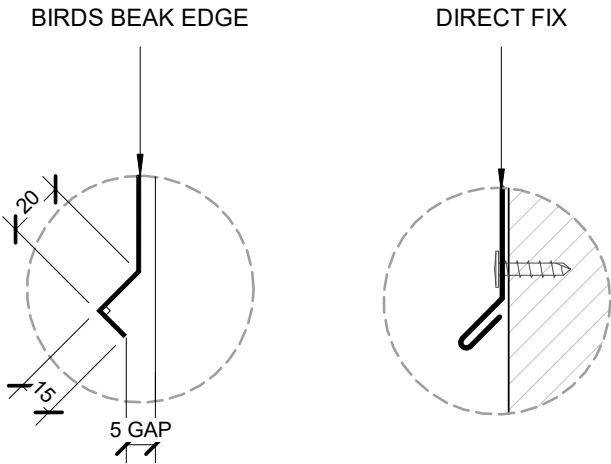
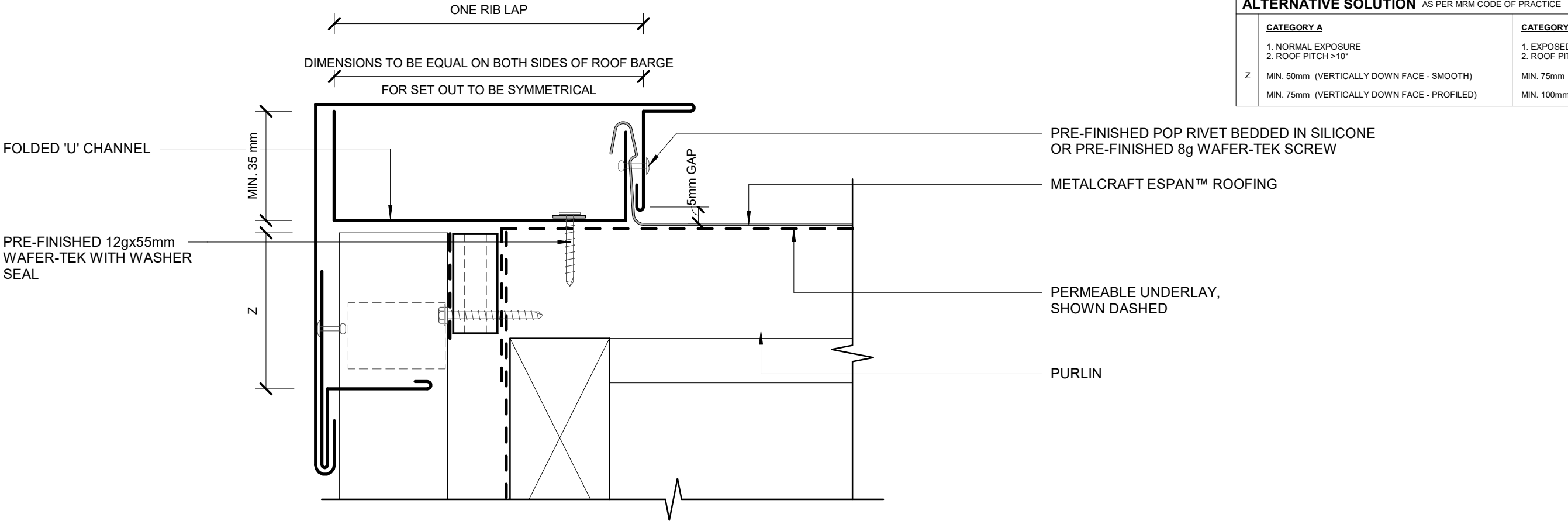
EAVE FLASHING IS ALWAYS REQUIRED

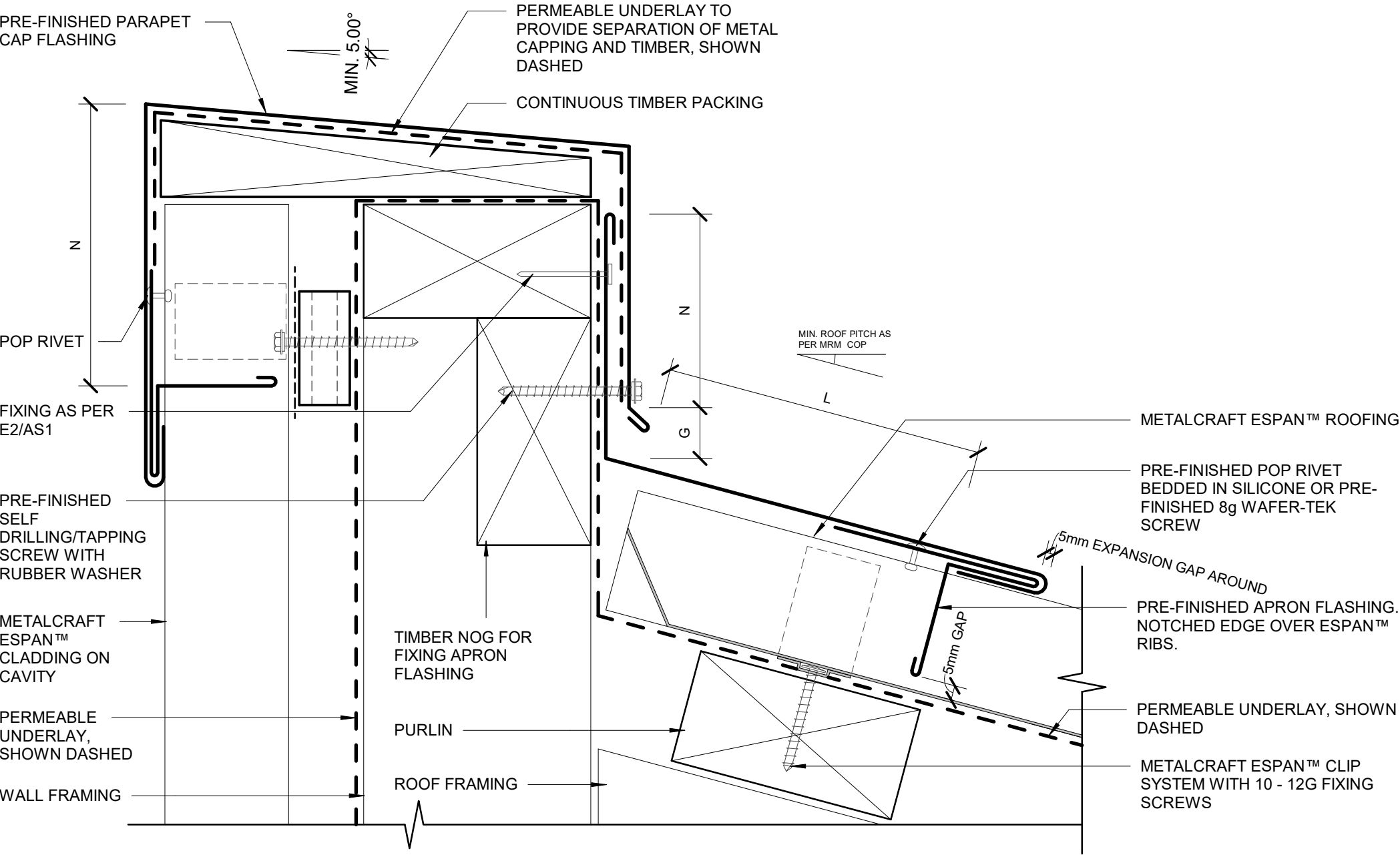


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ACCEPTABLE SOLUTION AS PER E2/ASI			
	SITUATION 1	SITUATION 2	SITUATION 3
	1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH ≥ 10°	1. ALL ROOF PITCHES IN VERY HIGH WIND ZONE 2. LOW, MEDIUM, HIGH WIND ZONES WHERE ROOF PITCH ≤ 10°	1. FOR ALL ROOF PITCHES IN EXTRA HIGH WIND ZONES
Z	MIN. 50mm	MIN. 70mm	MIN. 90mm

ALTERNATIVE SOLUTION 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°
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)

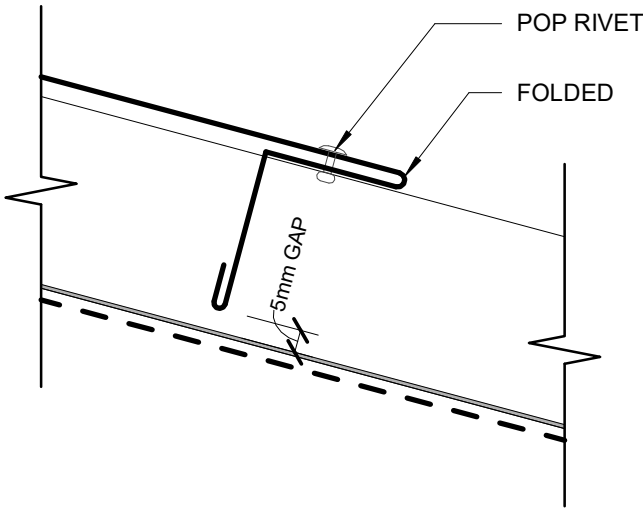


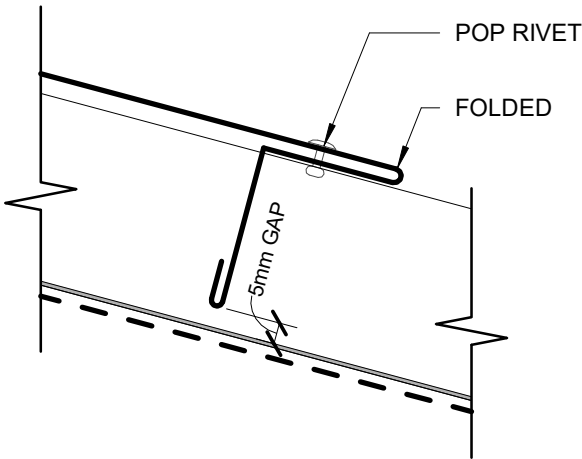
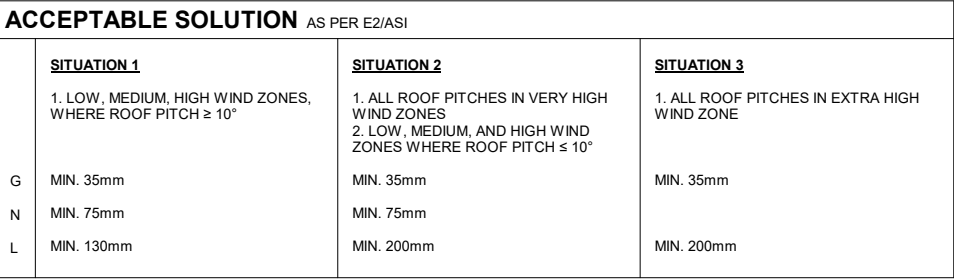


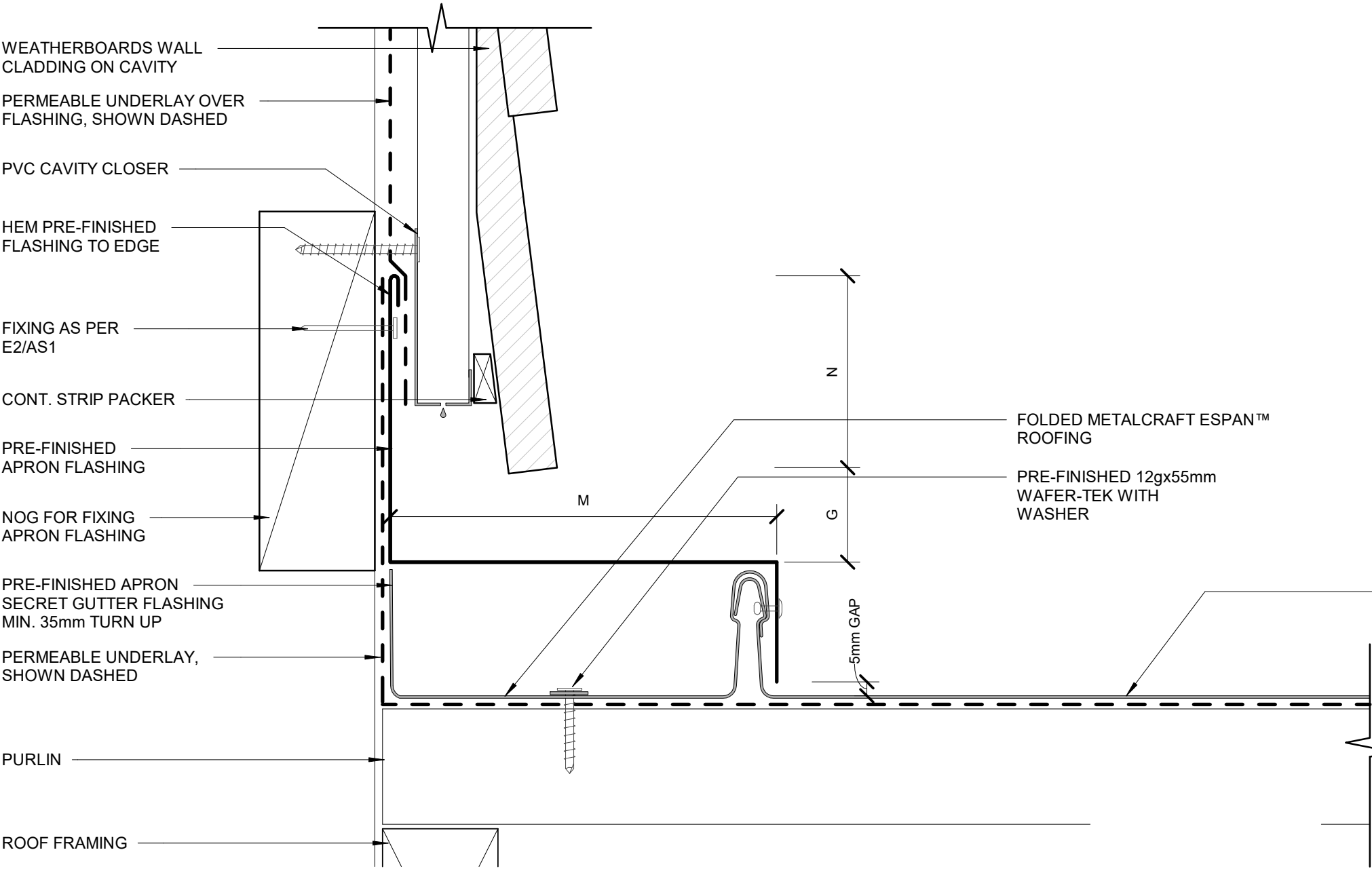
ACCEPTABLE SOLUTION AS PER E2/AS1			
	SITUATION 1	SITUATION 2	SITUATION 3
	1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH ≥ 10°	1. ALL ROOF PITCHES IN VERY HIGH WIND ZONES 2. LOW, MEDIUM, AND HIGH WIND ZONES WHERE ROOF PITCH ≤ 10°	1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE
G	MIN. 35mm	MIN. 35mm	MIN. 35mm
N	MIN. 75mm	MIN. 75mm	
L	MIN. 130mm	MIN. 200mm	MIN. 200mm

ALTERNATIVE SOLUTION 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°
25mm	25mm
G MIN. 50mm + HEM OR 75mm (VERTICALLY UP FACE - SMOOTH)	MIN. 75mm + HEM OR 100mm (VERTICALLY UP FACE - SMOOTH)
N MIN. 75mm + HEM OR 100mm (VERTICALLY UP FACE - PROFILED)	MIN. 100mm + HEM OR 125mm (VERTICALLY UP FACE - PROFILED)
L MIN. 150mm	MIN. 200mm

ALTERNATIVE OPTION



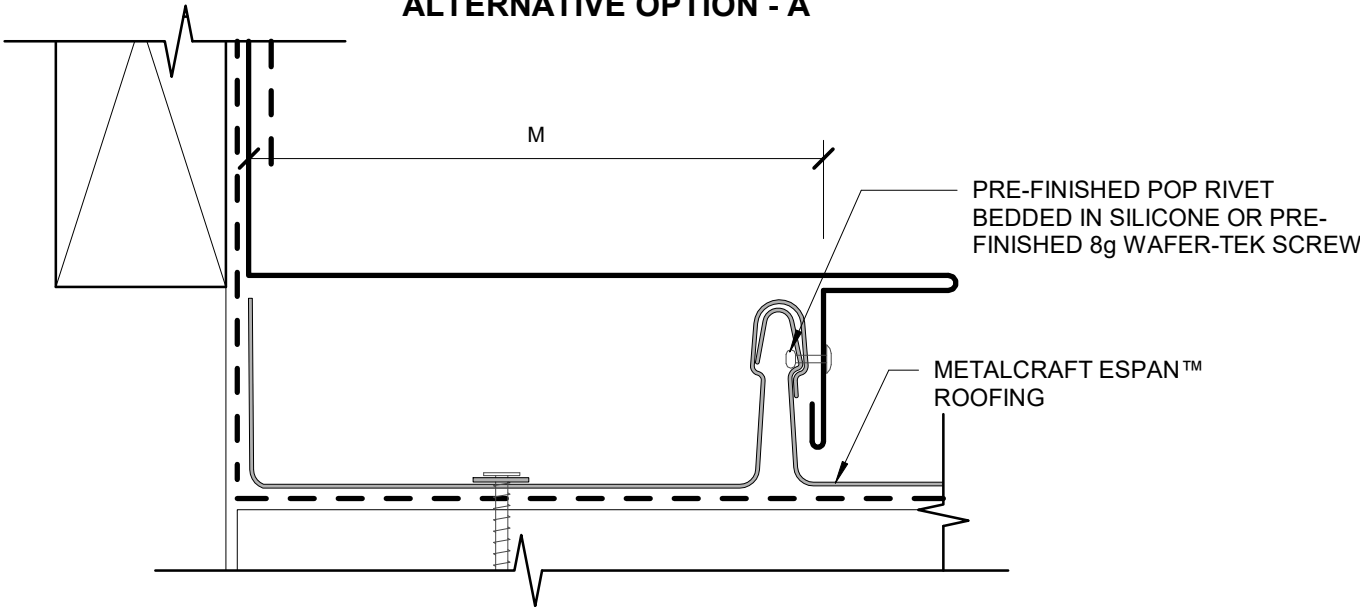




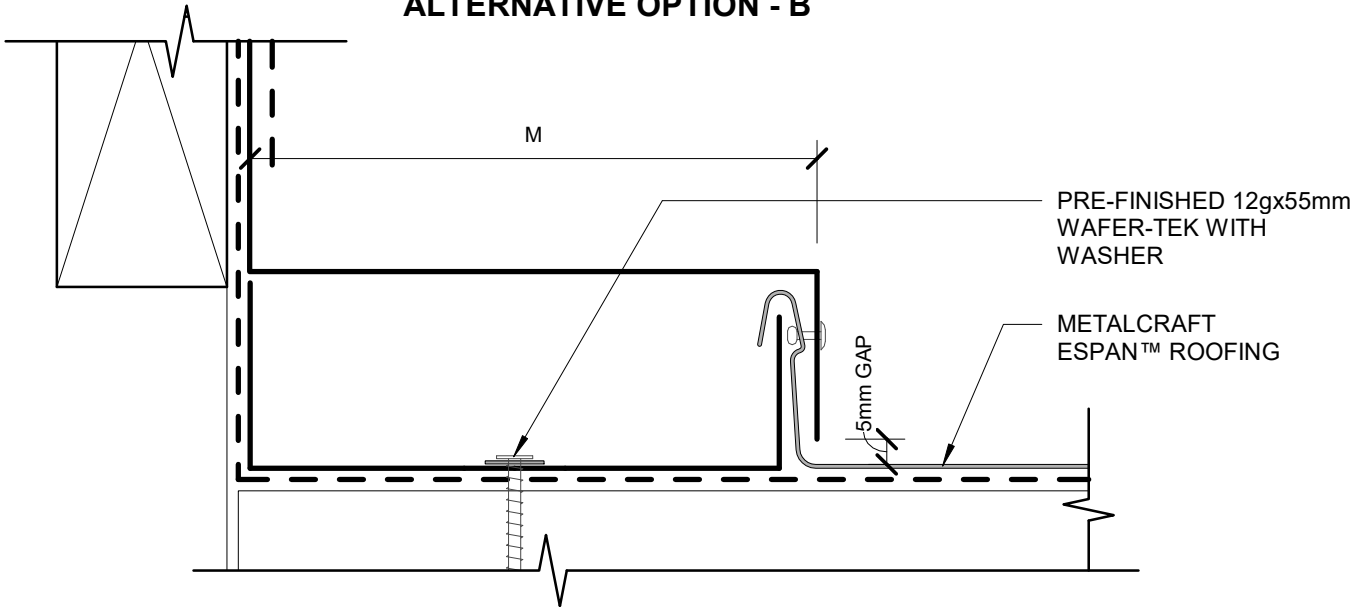
ACCEPTABLE SOLUTION AS PER E2/AS1			
	SITUATION 1	SITUATION 2	SITUATION 3
	1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH ≥ 10°	1. ALL ROOF PITCHES IN VERY HIGH WIND ZONE 2. LOW, MEDIUM, AND HIGH WIND ZONES WHERE ROOF PITCH ≤ 10°	1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE
G	MIN. 35mm	MIN. 35mm	MIN. 35mm
N	MIN. 75mm	MIN. 75mm	MIN. 75mm
M	AT LEAST TWO CRESTS	AT LEAST TWO CRESTS	AT LEAST TWO CRESTS

ALTERNATIVE SOLUTION AS PER MRM CODE OF PRACTICE	
CATEGORY A	CATEGORY B
1. NORMAL EXPOSURE 2. ROOF PITCH >10°	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°
G 25mm	25mm
N MIN. 50mm + HEM OR 75mm (VERTICALLY UP FACE - SMOOTH) MIN. 75mm + HEM OR 100mm (VERTICALLY UP FACE - PROFILED)	MIN. 75mm + HEM OR 100mm (VERTICALLY UP FACE - SMOOTH) MIN. 100mm + HEM OR 125mm (VERTICALLY UP FACE - PROFILED)
M ONE RIB	

ALTERNATIVE OPTION - A



ALTERNATIVE OPTION - B



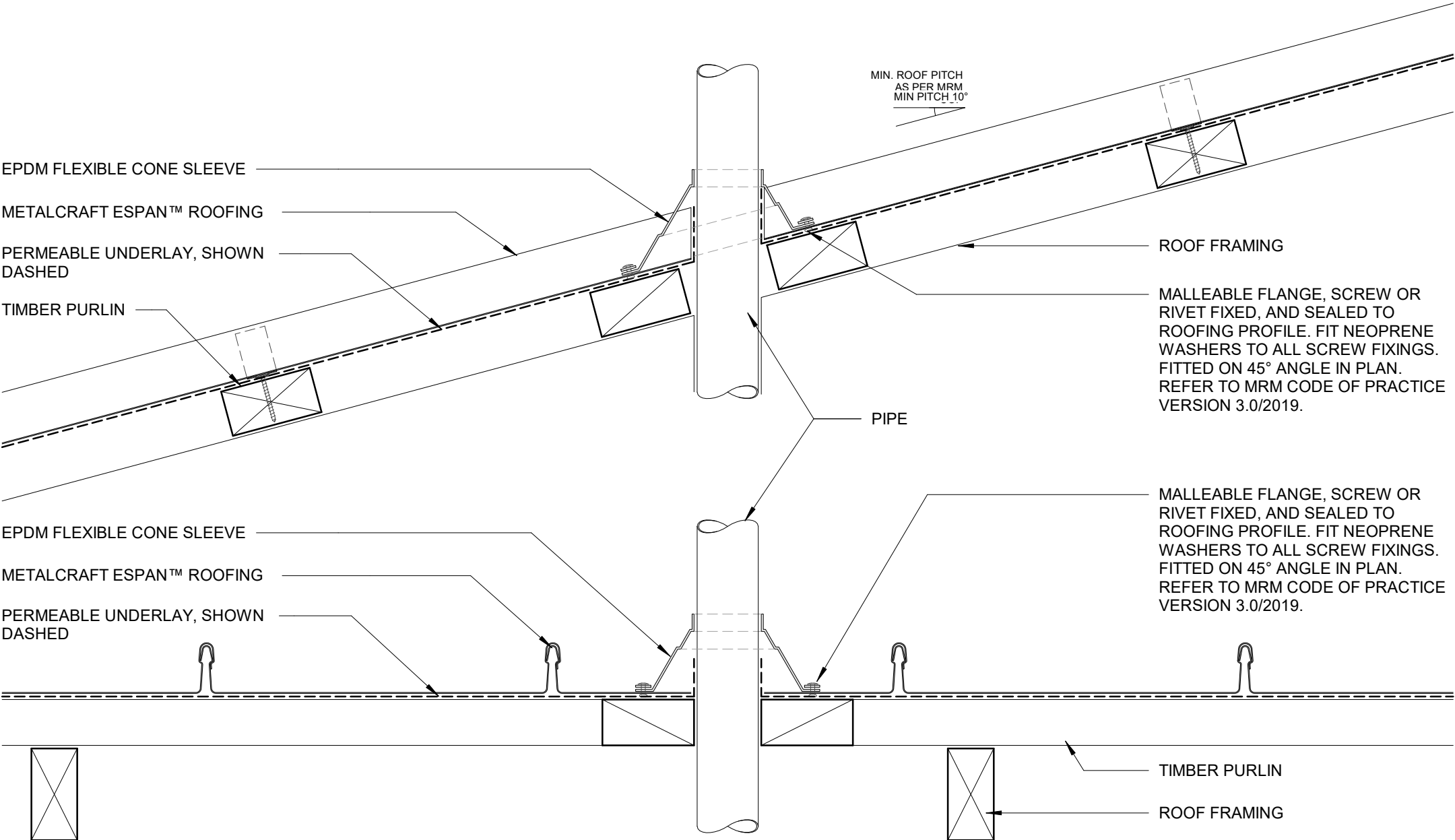
* MIN. 10° FOR PIPE PENETRATION WITH A BOOT.

BOOT FLASHING MUST BE FIXED DIAGONALLY.

BOOT FLASHING IS ONLY APPLICABLE WHEN LESS THAN 50% OF THE PAN IS BLOCKED.

WHEN ROOF PITCH IS LESS THAN 10° USE BACK TRAY AS PER A13

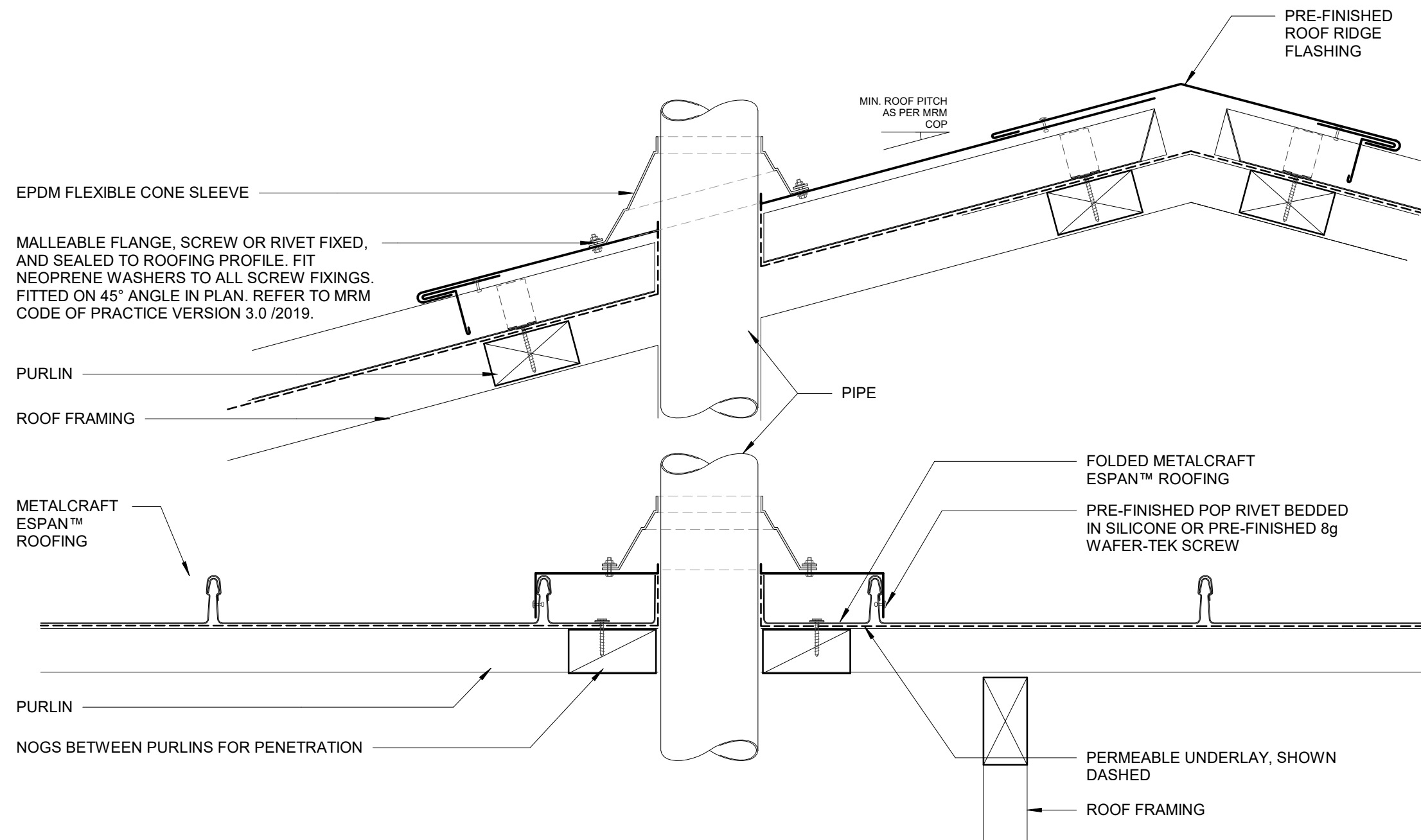
REFER TO MRM CODE OF PRACTICE

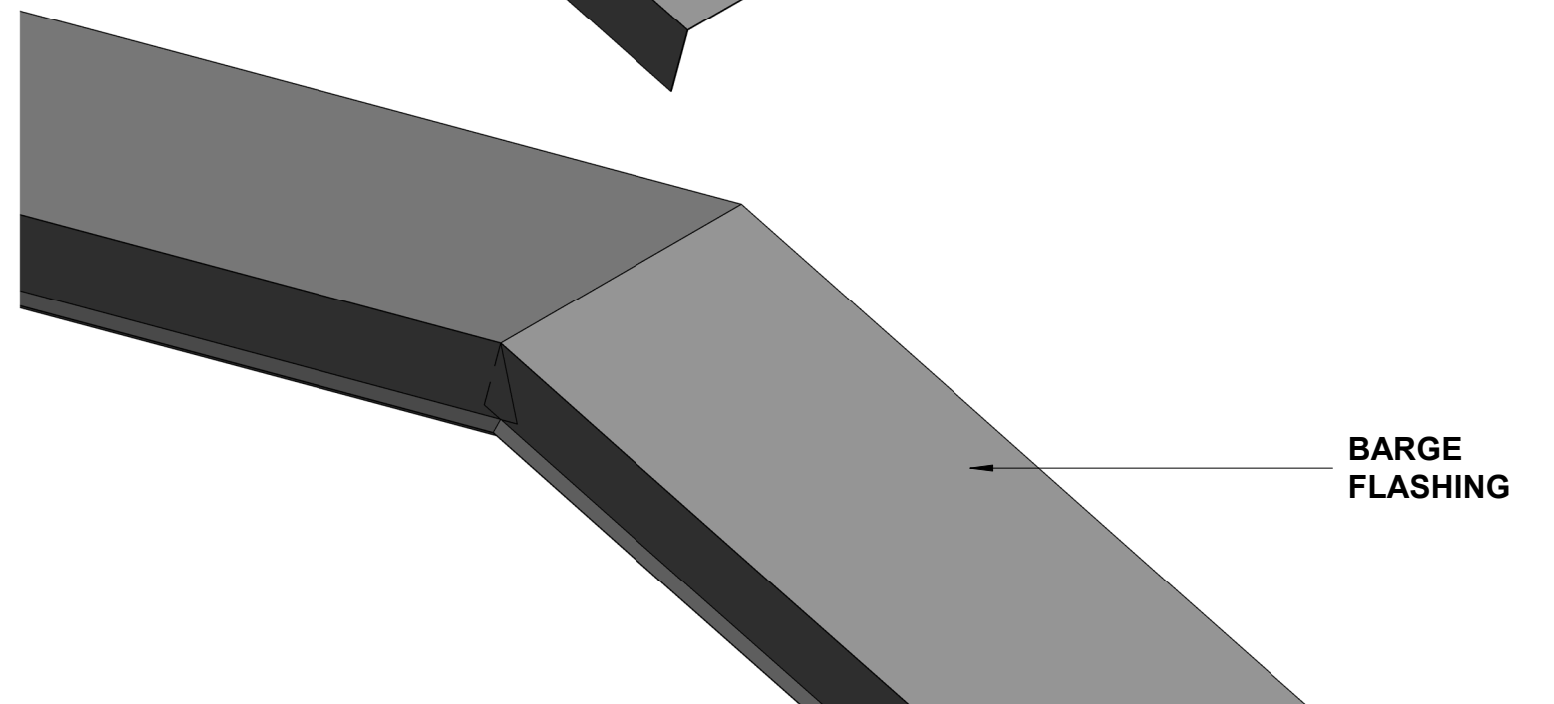
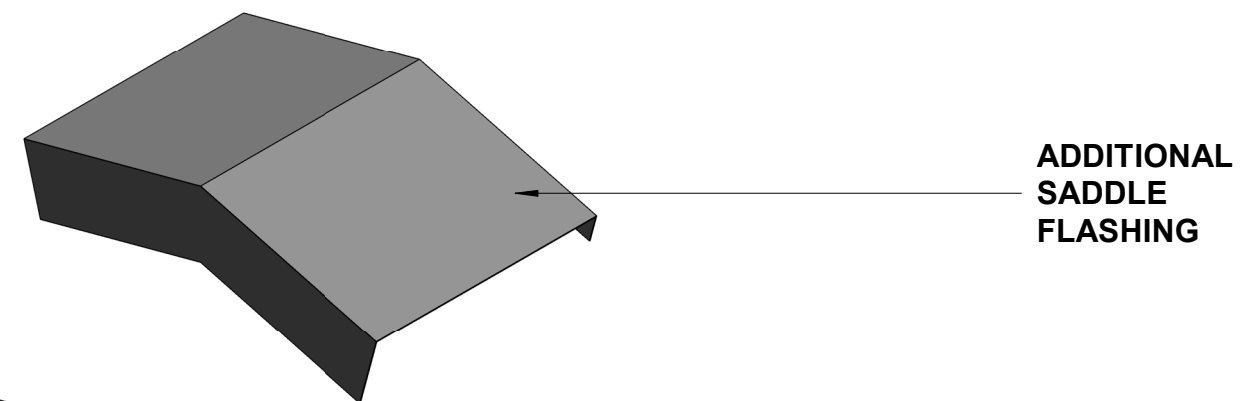
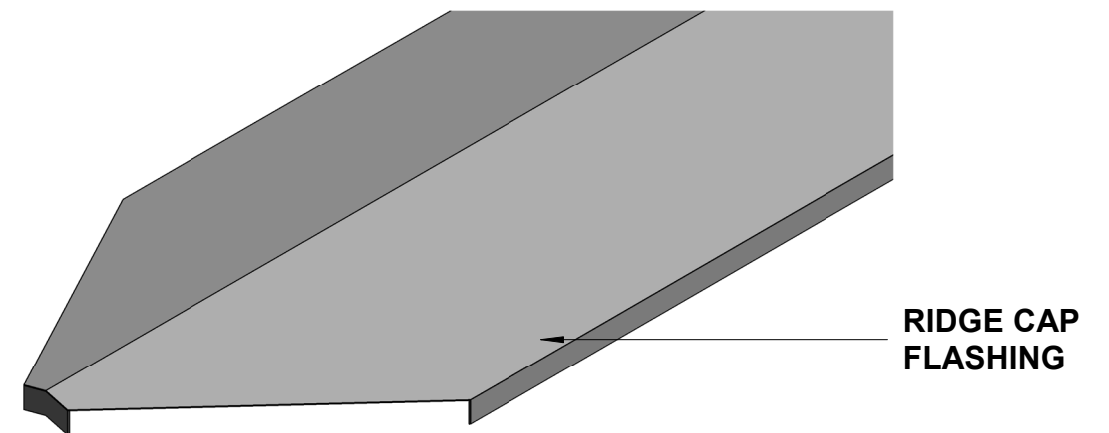
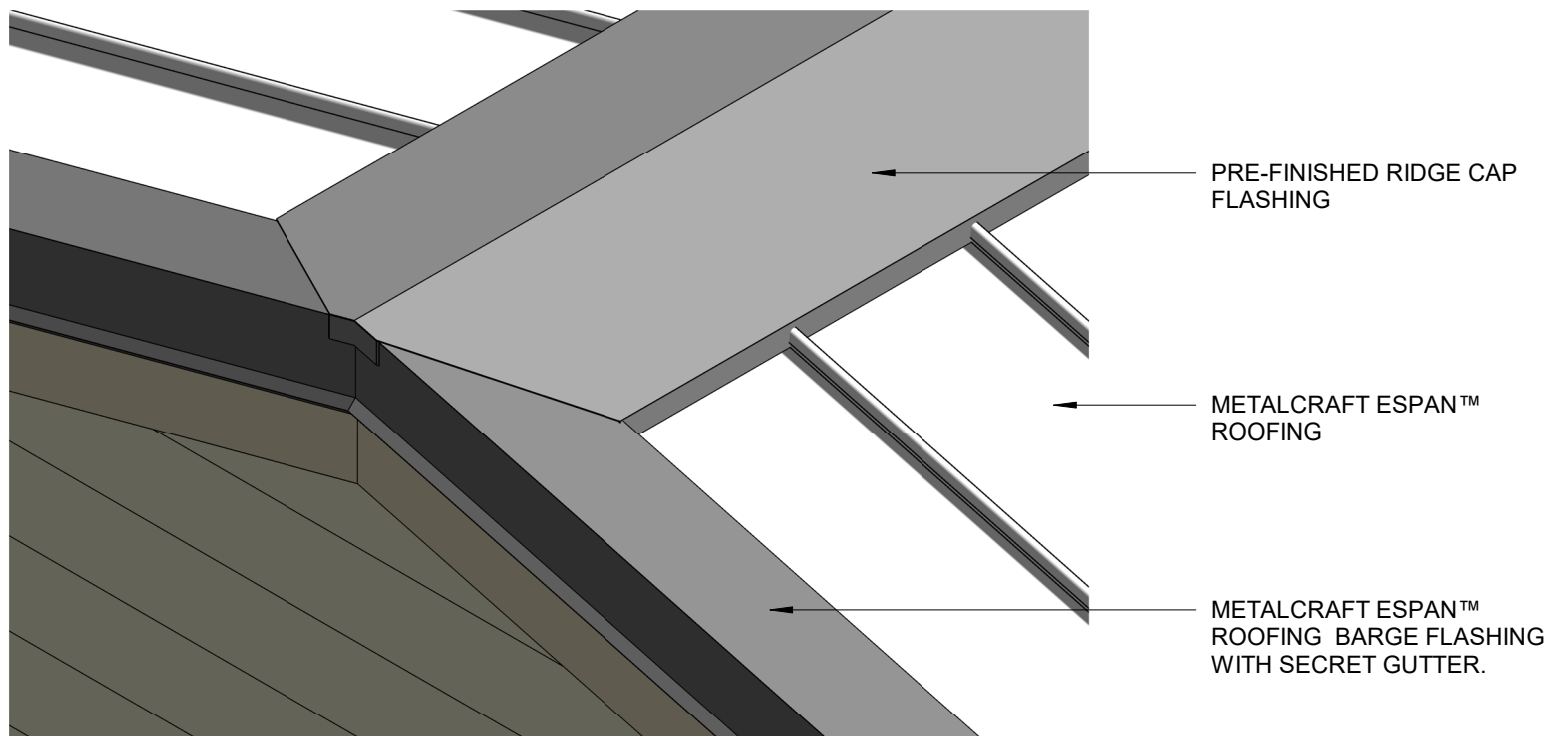


* MIN. 3° FOR PIPE PENETRATION.

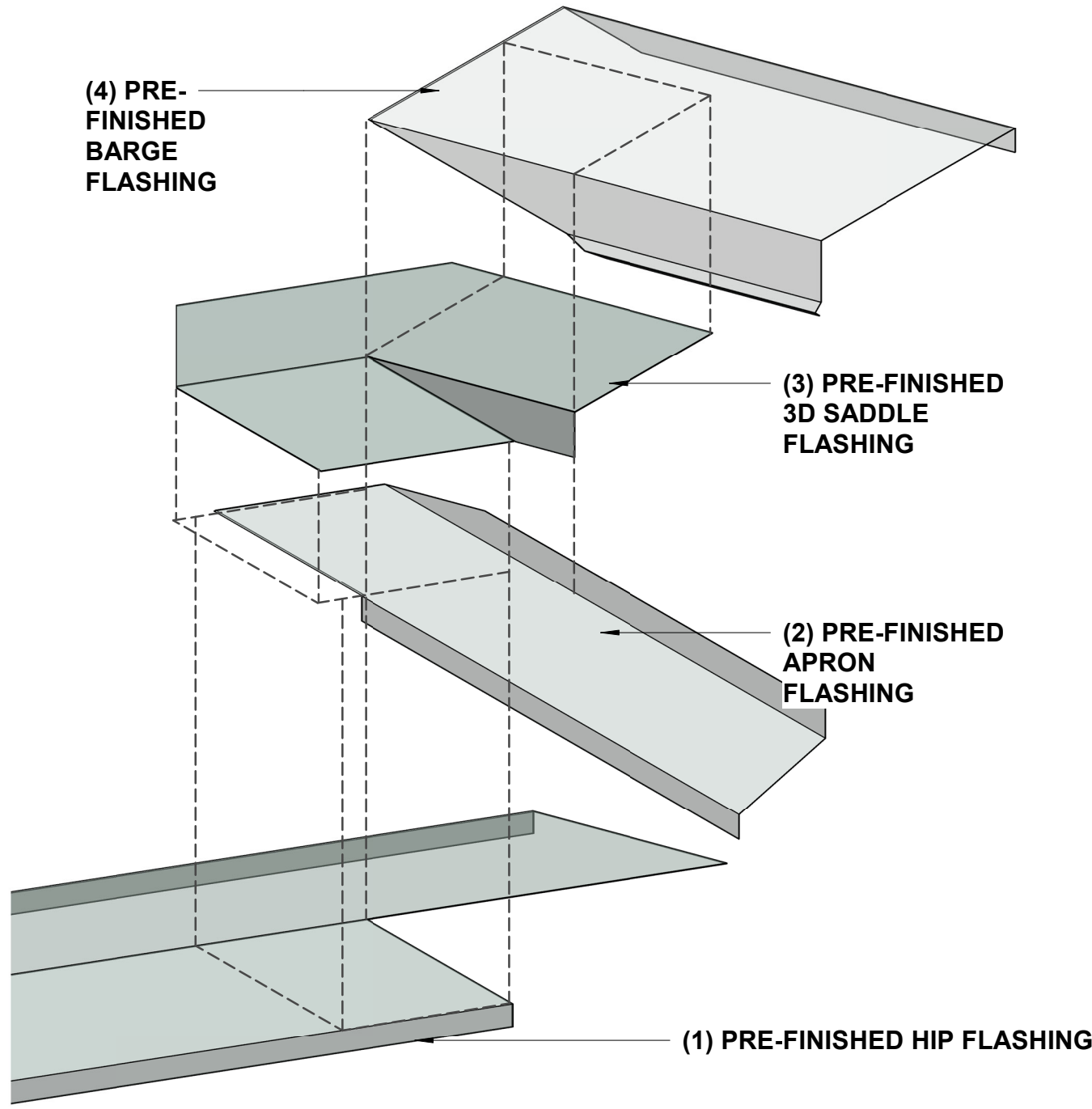
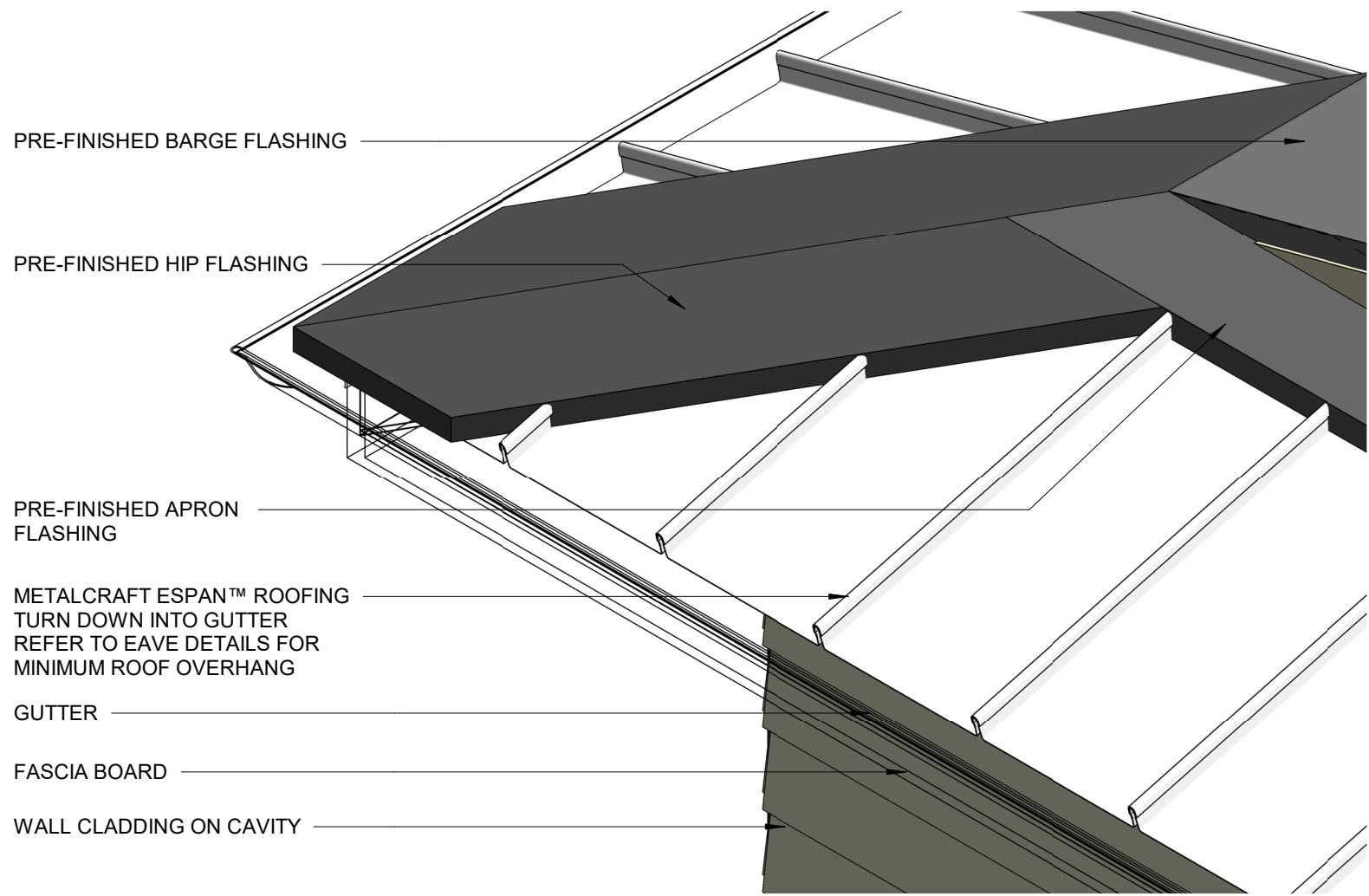
BACK TRAY AND BOOT FLASHING IS APPLICABLE WHEN MORE THAN 50% OF PAN IN BLOCKED, OR WHEN THE ROOF PITCH IS LESS THAN 10°

REFER TO MRM CODE OF PRACTICE





* PLEASE REFER TO MRM CODE OF PRACTICE VERSION 3.0 /2019



* PLEASE REFER TO MRM CODE OF PRACTICE VERSION 3.0/2019

WALL CLADDING ON CAVITY

PRE-FINISHED APRON FLASHING
WITH SECRET GUTTER.

PRE-FINISHED APRON DIVERTER

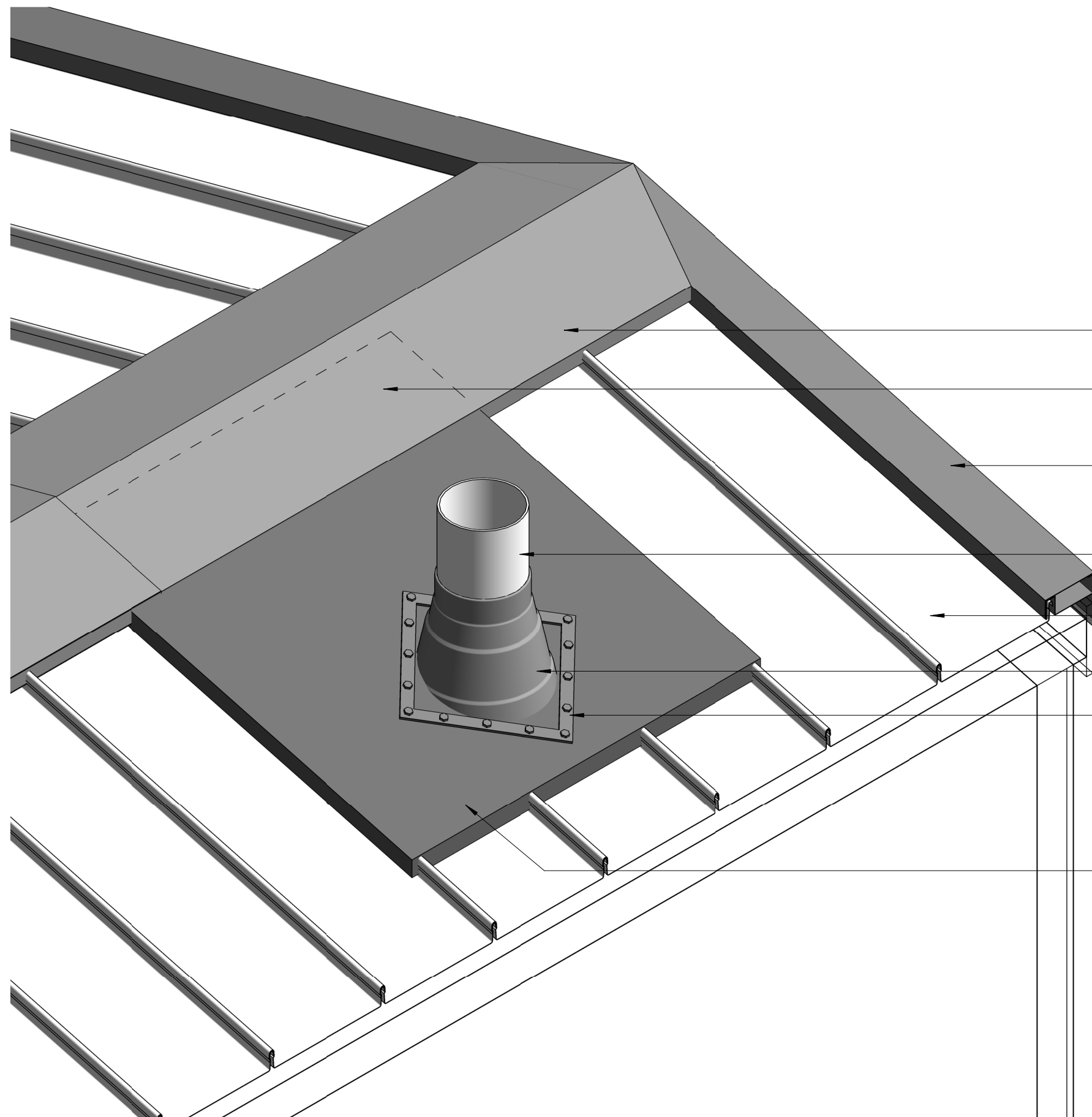
METALCRAFT ESPAN™ ROOFING
TURN DOWN INTO GUTTER
REFER TO EAVE DETAILS FOR
MINIMUM ROOF OVERHANG

GUTTER

FASCIA BOARD

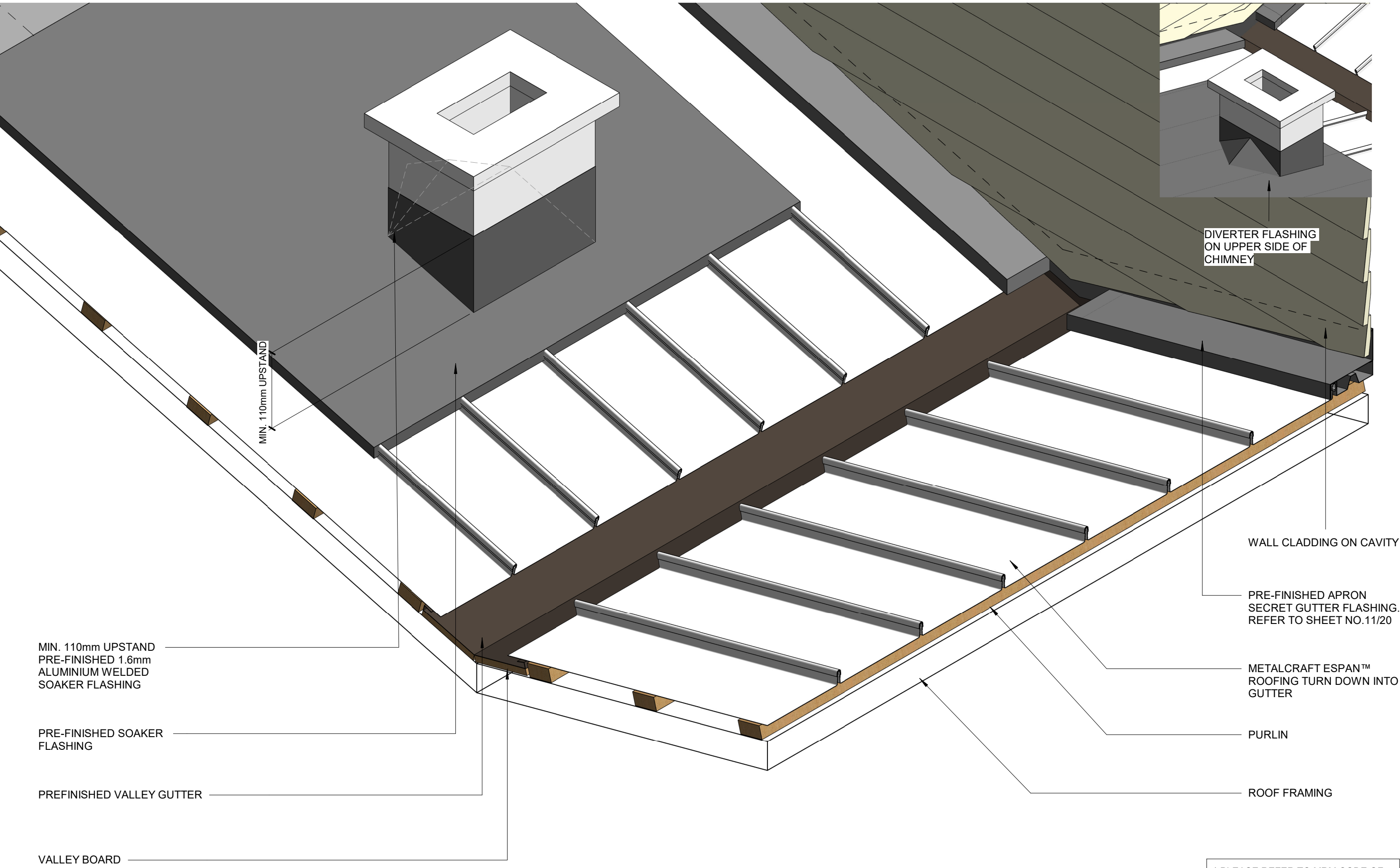
WALL CLADDING ON CAVITY

* PLEASE REFER TO MRM CODE OF
PRACTICE VERSION 3.0/2019

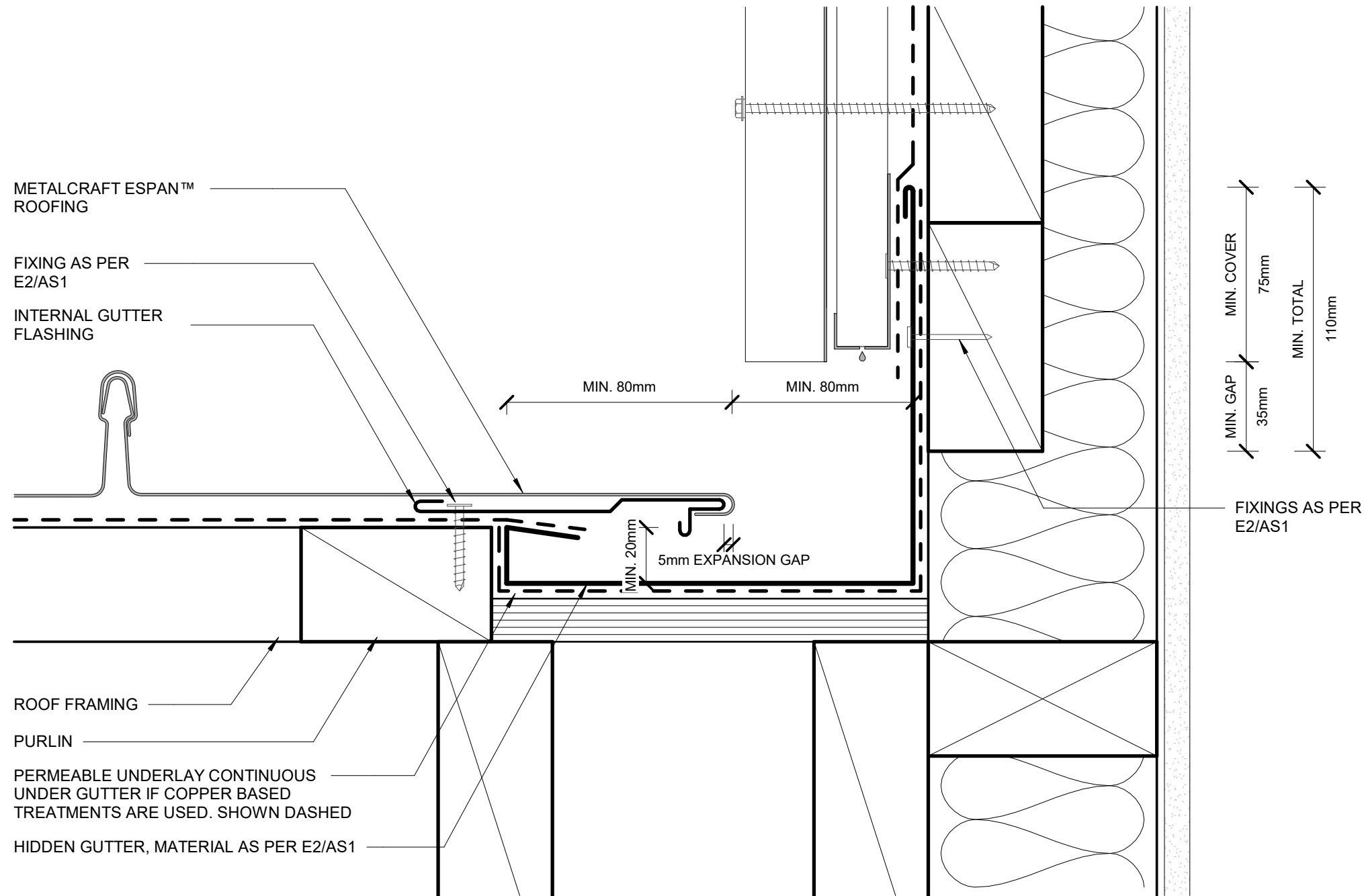


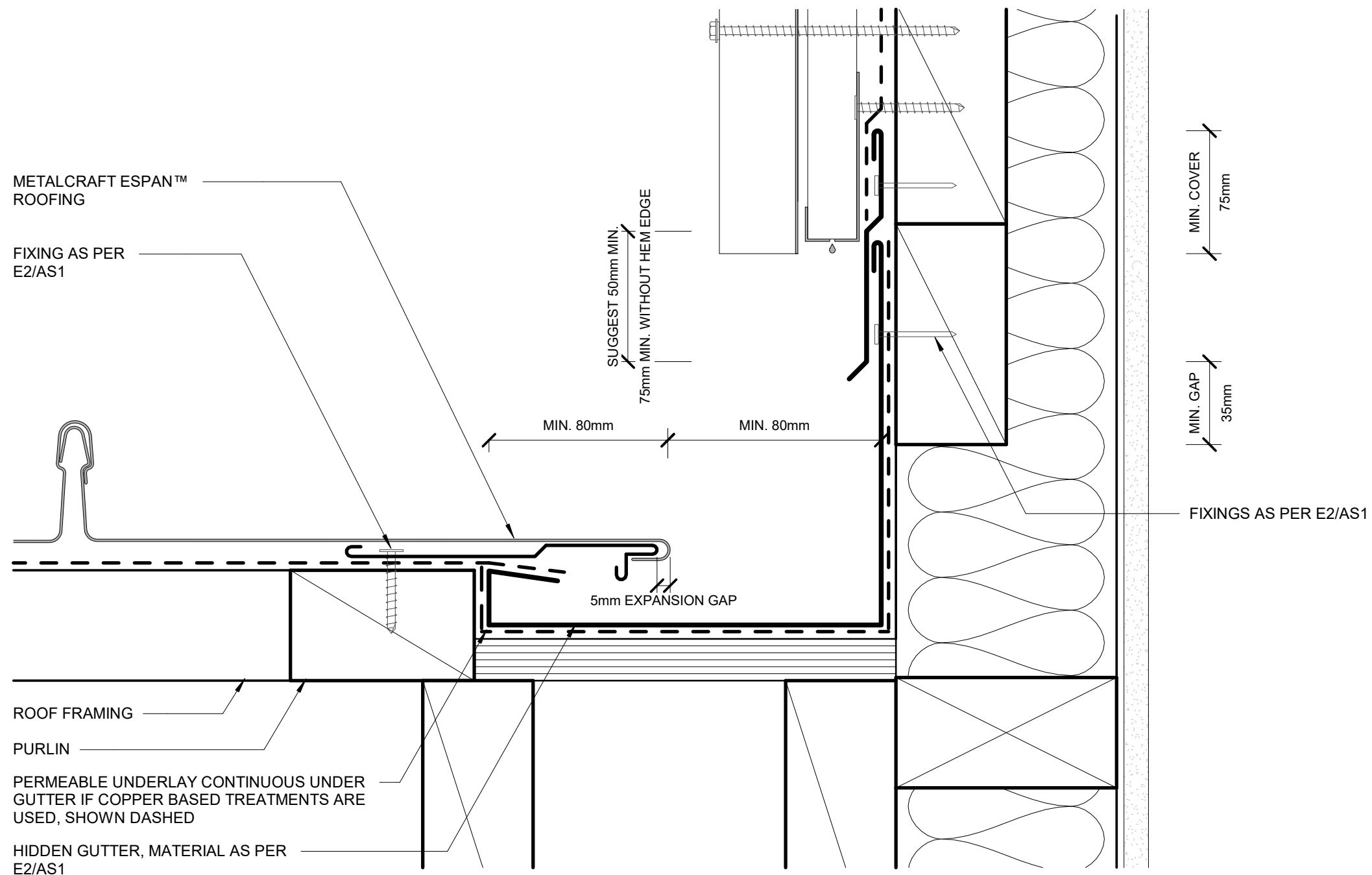
* PLEASE REFER TO MRM CODE OF PRACTICE VERSION 3.0/2019

- PRE-FINISHED ROOF RIDGE FLASHING
- PRE-FINISHED SOAKER FLASHING UNDER PRE-FINISHED ROOF RIDGE FLASHING
- METALCRAFT ESPAN™ ROOFING BARGE FLASHING WITH SECRET GUTTER.
- PIPE
(85mm < PIPE DIAMETER ≤ 500mm)
- METALCRAFT ESPAN™ 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



* PLEASE REFER TO MRM CODE OF PRACTICE VERSION 3.0/2019





PARALLEL HIDDEN GUTTER (2 PART FLASHING)

Espan 340® / 470®

Rev. 2.0

RESIDENTIAL ROOFING

Reference Designer

Date FEB 2022

Scale 1 : 2

Sheet

A 20