Espan 340[®] / 470[®]

DETAIL LIST		<u>Revision</u>	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	G 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

RREP

RESIDENTIAL ROOFING





ACCEPTABLE SOLU

 SITUATION 1

 1. LOW, MEDIUM, HIGH WIN

 WHERE ROOF PITCH ≥ 10°

 X

 MIN. 130mm

MIN. 50mm

ALTERNATIVE SOLU

CATEGORY A 1. NORMAL EXPOSURE 2. ROOF PITCH >10° MIN. 130mm MIN. 50mm (VERTICALLY DOWN FACE -MIN. 75mm (VERTICALLY DOWN FACE -

PRE-FINISHED RIDGE CAP FLASHING STOPENDS TO ROOF CLADDING X PRE-FINISHED POP RIVET BEDDED IN SILICONE OR MIN. ROOF PITCH AS PER MRM COP PRE-FINISHED 8g WAFER-TEK SCREW METALCRAFT ESPAN™ ROOFING (<5mm EXPANSION GAP AROUND GAP Ē METALCRAFT ESPAN™ CLIP SYSTEM WITH 10 -12G FIXING SCREWS PERMEABLE UNDERLAY, SHOWN DASHED PURLIN ROOF FRAMING

UTION AS PER E2/ASI		
	SITUATION 2	SITUATION 3
IND ZONES,)°	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
	MIN. 200mm	MIN. 200mm
	MIN. 70mm	MIN. 90mm

UTION AS PER MRM CODE OF	PRACTICE	
	CATEGORY B	
	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°	
	MIN. 200mm	
E - SMOOTH) E - PROFILED)	MIN. 75mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 100mm (VERTICALLY DOWN FACE - PROFILED)	

PRE-FINISHED SECRET FLASHING

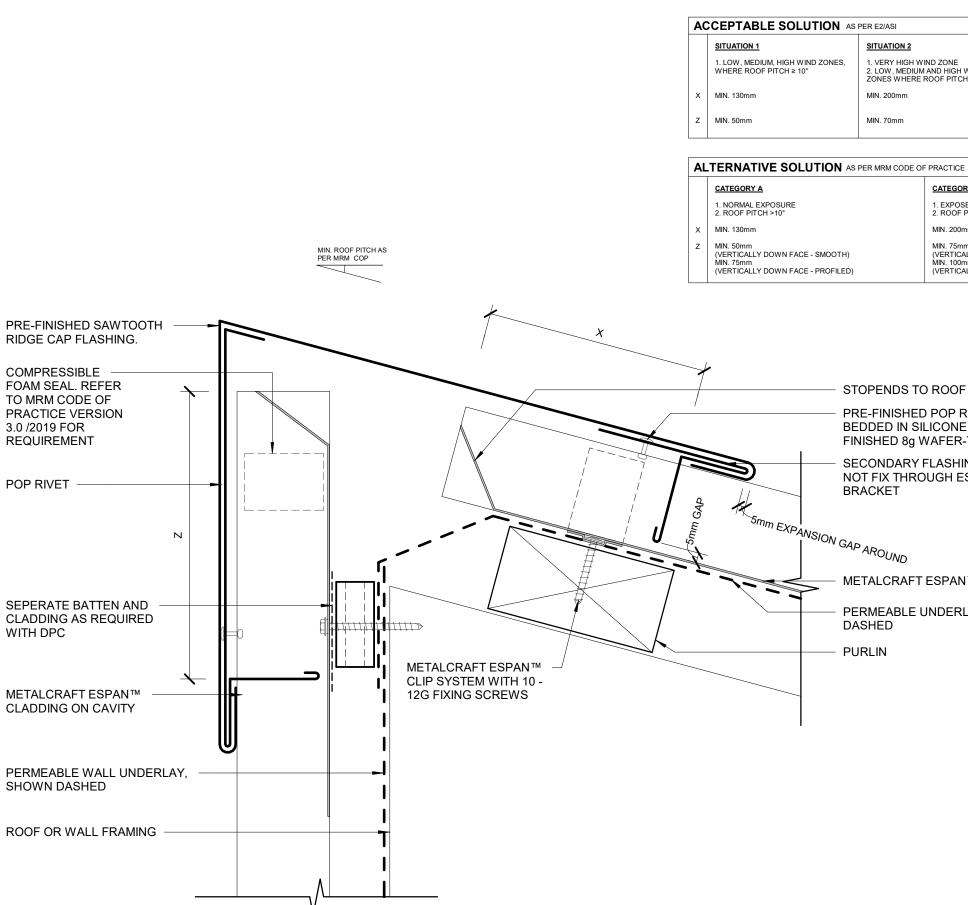
SECONDARY FLASHING, DO NOT FIX THROUGH ESPAN BRACKET



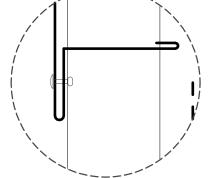
Rev. 2.0

Scale 1:2











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Espan 340[®] / 470[®]

Reference RREP

UTION AS PER E2/ASI		
	SITUATION 2	SITUATION 3
VIND ZONES, 0°	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
	MIN. 200mm	MIN. 200mm
	MIN. 70mm	MIN. 90mm

	CATEGORY B	
	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°	
	MIN. 200mm	
CE - SMOOTH)	MIN. 75mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 100mm	
CE - PROFILED)	(VERTICALLY DOWN FACE - PROFILED)	

	STOPENDS TO ROOF CLADDING
	PRE-FINISHED POP RIVET BEDDED IN SILICONE OR PRE- FINISHED 8g WAFER-TEK SCREW
	SECONDARY FLASHING, DO NOT FIX THROUGH ESPAN BRACKET
Ns _{ION}	GAP AROUND
>	METALCRAFT ESPAN™ ROOFING
	PERMEABLE UNDERLAY, SHOWN DASHED

PURLIN

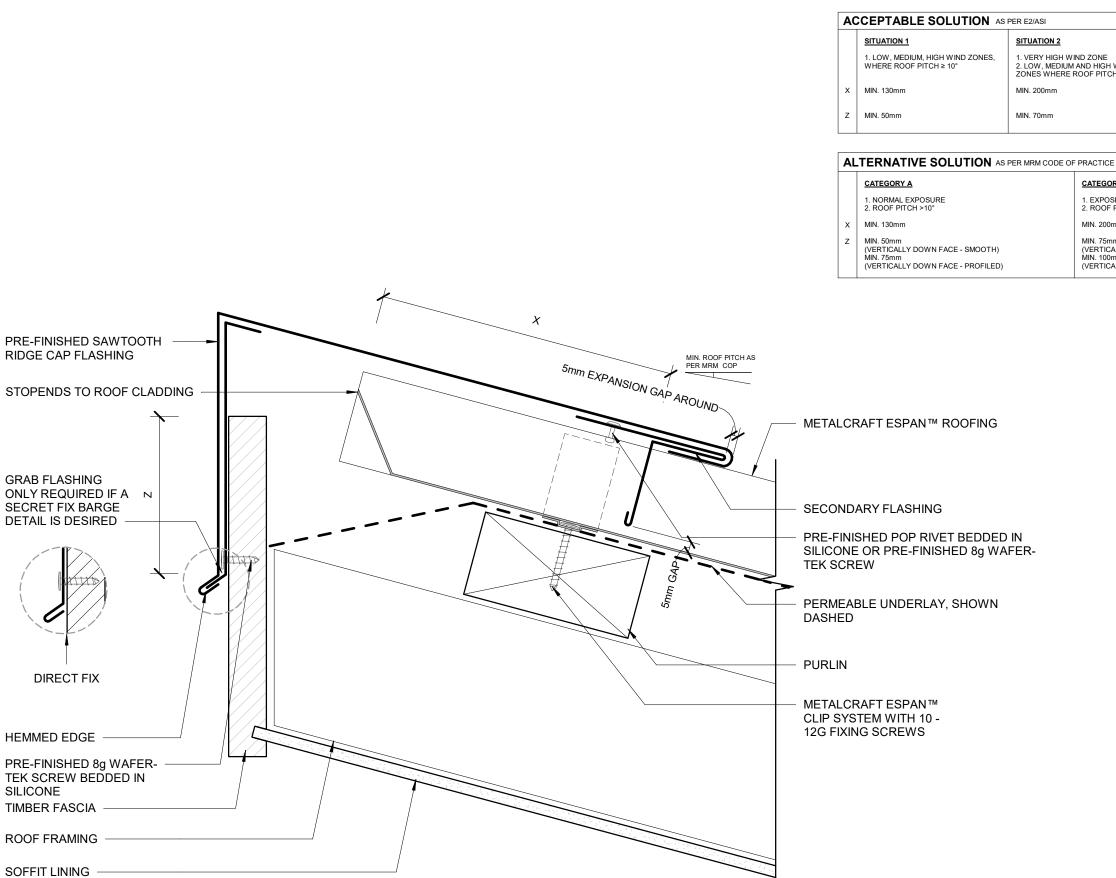


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Scale 1:2

Sheet

A 02





SILICONE

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Reference RREP

	SITUATION 2	SITUATION 3
VIND ZONES, 0°	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
	MIN. 200mm	MIN. 200mm
	MIN. 70mm	MIN. 90mm

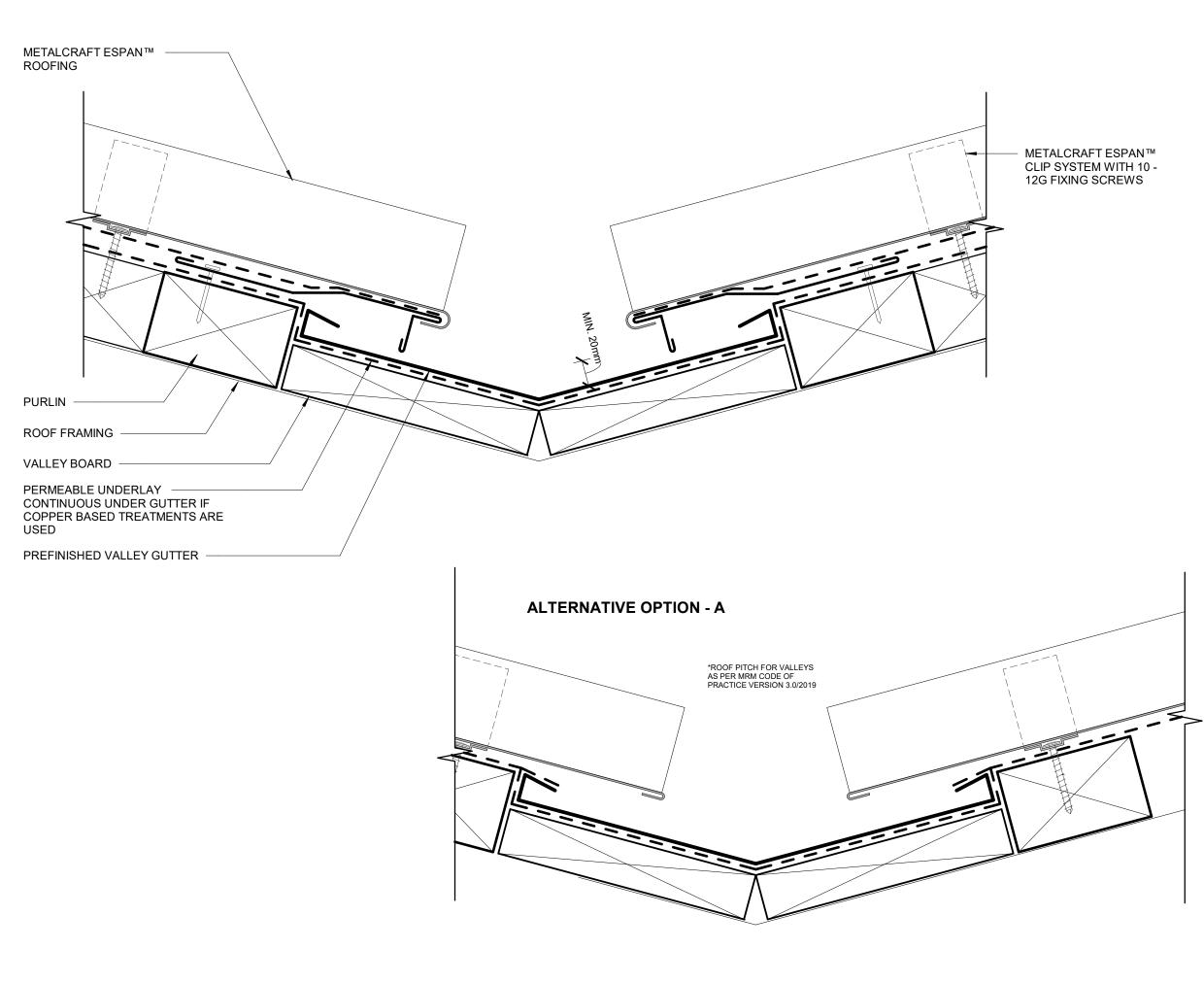
	CATEGORY B
	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°
	MIN. 200mm
CE - SMOOTH)	MIN. 75mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 100mm
CE - PROFILED)	(VERTICALLY DOWN FACE - PROFILED)



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Scale 1:2







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

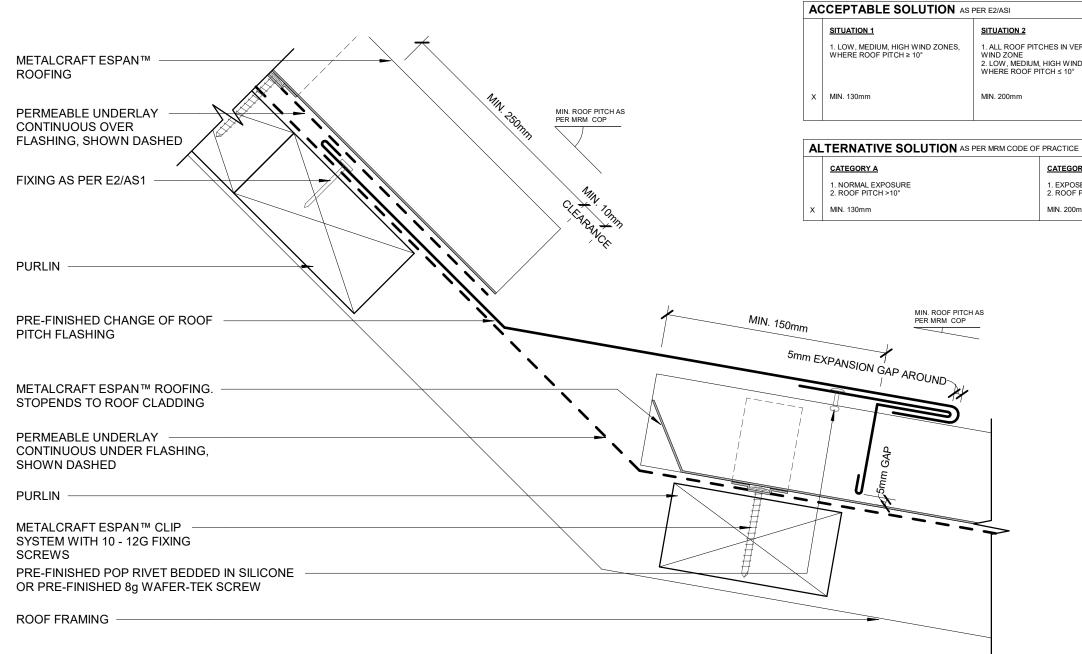


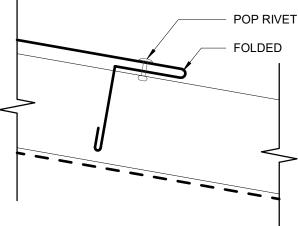
A 04

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Date FEB 2022

Scale 1:2







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Reference RREP

LUTION AS PER E2/ASI		
	SITUATION 2	SITUATION 3
VIND ZONES, 0°	1. ALL ROOF PITCHES IN VERY HIGH WIND ZONE 2. LOW, MEDIUM, HIGH WIND ZONES WHERE ROOF PITCH ≤ 10° MIN. 200mm	1. NOT PERMITTED UNDER E2/AS1

CATEGORY B
1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°
MIN. 200mm

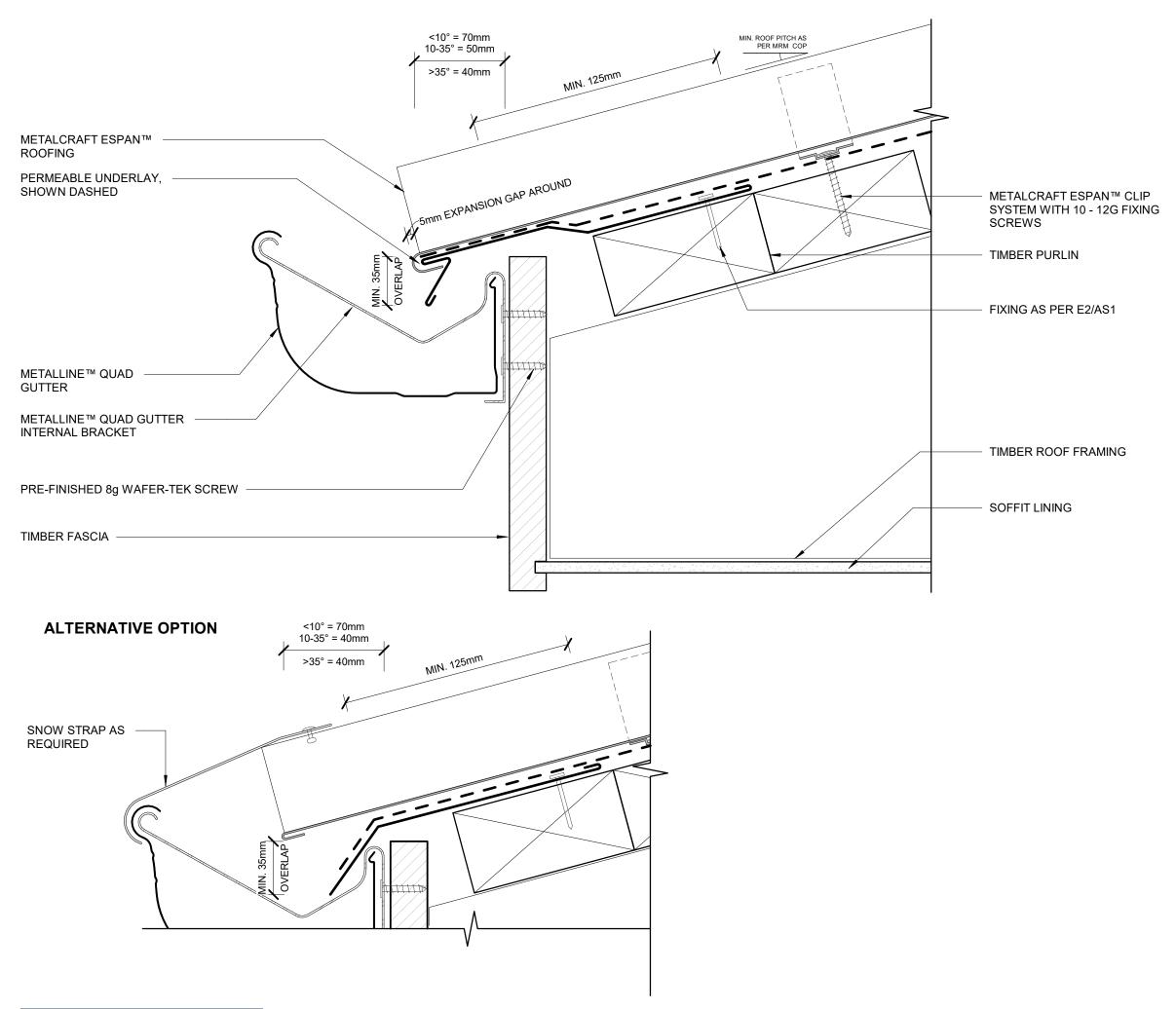
CHANGE IN PITCH **RESIDENTIAL ROOFING**

Rev. 2.0

Date FEB 2022

Scale 1:2







EAVE FLASHING IS ALWAYS REQUIRED

EAVE WITH ROUND GUTTER

Rev. 2.0

RESIDENTIAL ROOFING

Date FEB 2022

Scale 1:2



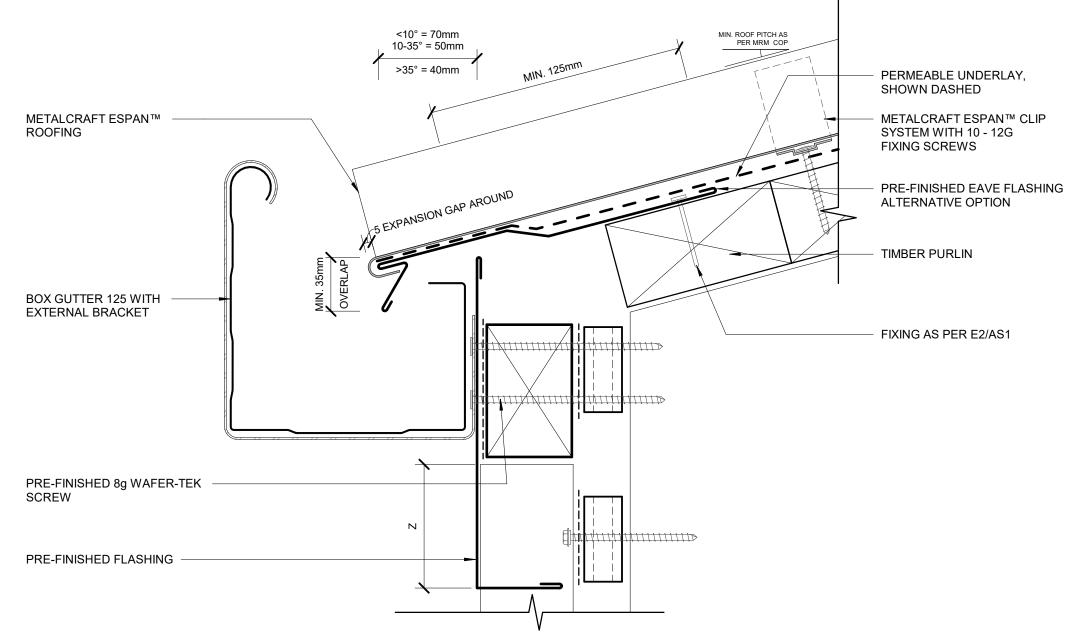
ACCEPTABLE SOL

SITUATION 1 1. LOW, MEDIUM, HIGH W WHERE ROOF PITCH ≥ 10

MIN. 50mm

ALTERNATIVE SOL

- CATEGORY A 1. NORMAL EXPOSURE 2. ROOF PITCH >10° MIN. 50mm (VERTICALLY
- MIN. 75mm (VERTICALLY





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Reference RREP

LUTION AS PER E2/ASI		
	SITUATION 2	SITUATION 3
WIND ZONES, 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
	MIN. 70mm	MIN. 90mm

LUTION AS PER MRM CODE OF PRACTICE		
	CATEGORY B	
	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°	
Y DOWN FACE - SMOOTH)	MIN. 75mm (VERTICALLY DOWN FACE - SMOOTH)	
Y DOWN FACE - PROFILED)	MIN. 100mm (VERTICALLY DOWN FACE - PROFILED)	

EAVE FLASHING IS ALWAYS REQUIRED

EAVE WITH SQUARE **RESIDENTIAL ROOFING**

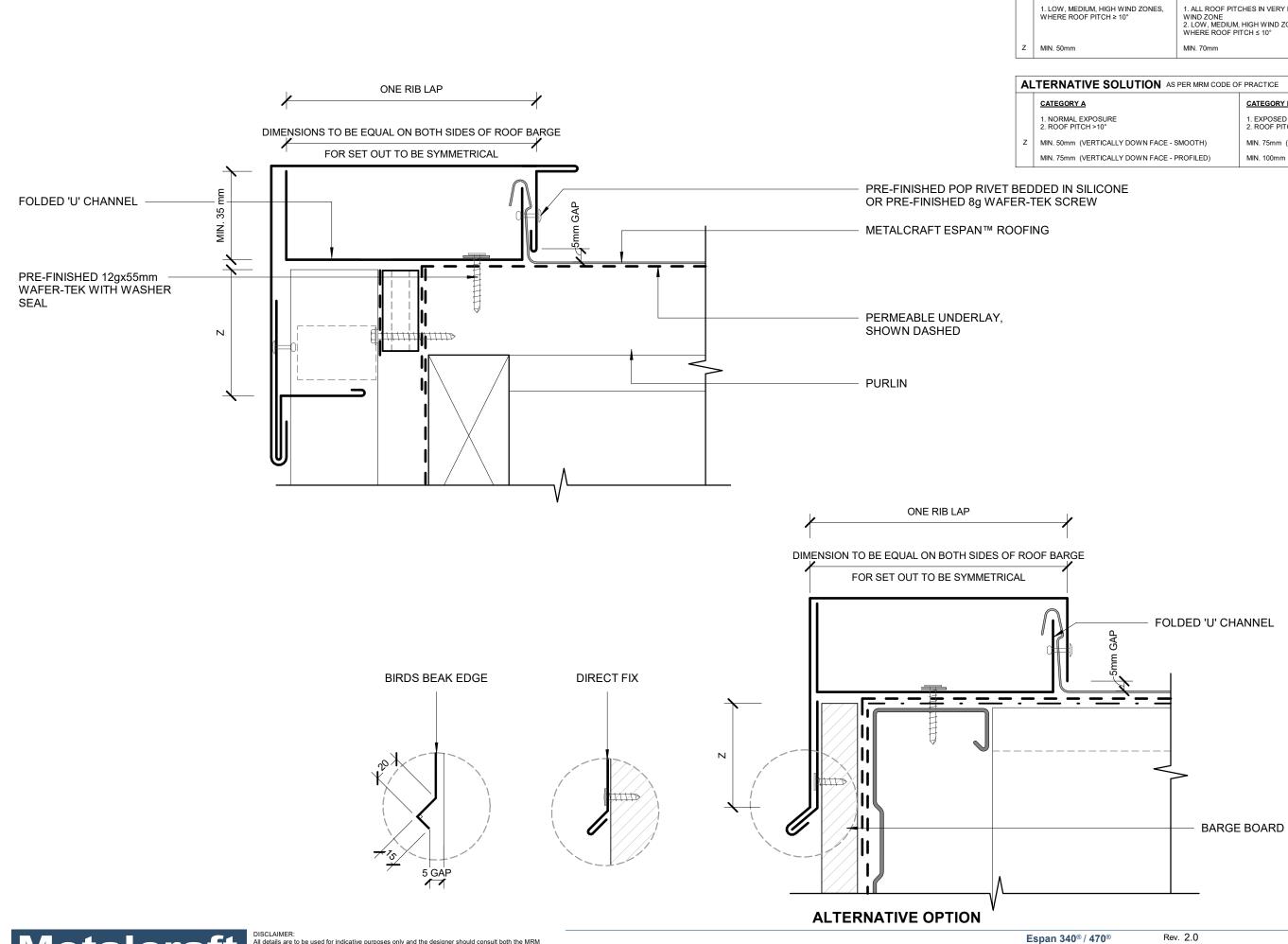
Rev. 2.0

Scale 1:2

Sheet

A 07

Date FEB 2022





Reference RREP

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

LUTION AS PER MRM CODE OF PRACTICE		
	CATEGORY B	
	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°	
OOWN FACE - SMOOTH)	MIN. 75mm (VERTICALLY DOWN FACE - SMOOTH)	
(DOWN FACE - PROFILED)	MIN. 100mm (VERTICALLY DOWN FACE - PROFILED)	

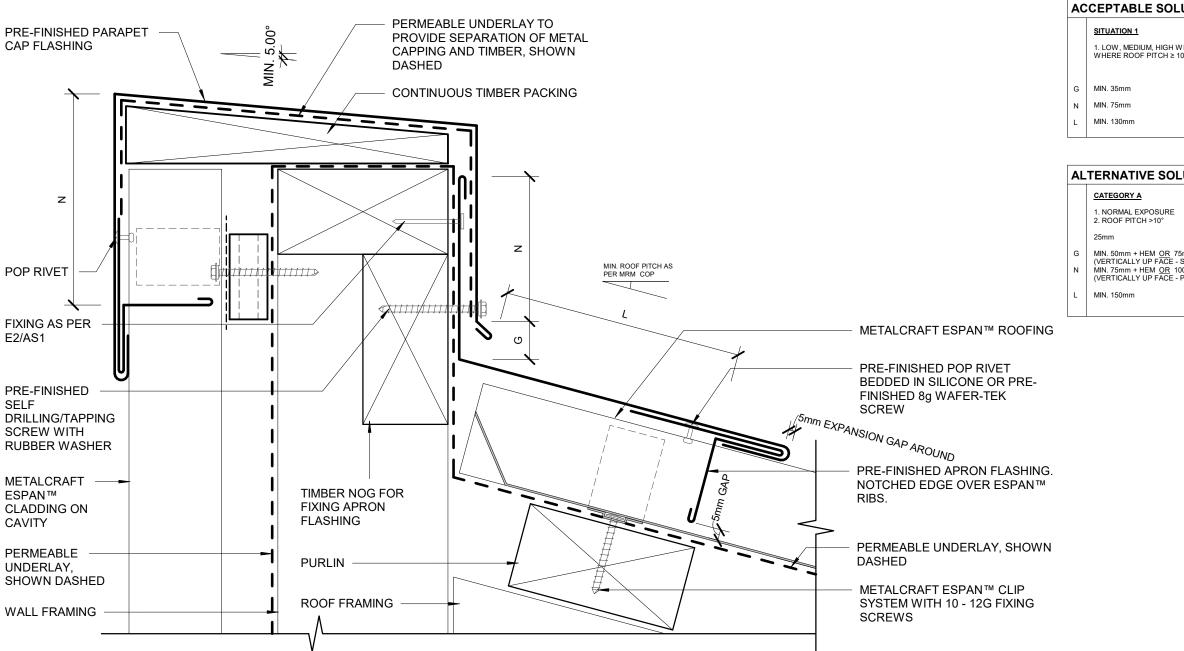
BARGE FLASHING **RESIDENTIAL ROOFING**

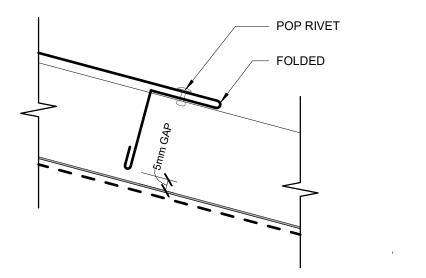
A 08

Rev. 2.0

Date FEB 2022

Scale 1:2







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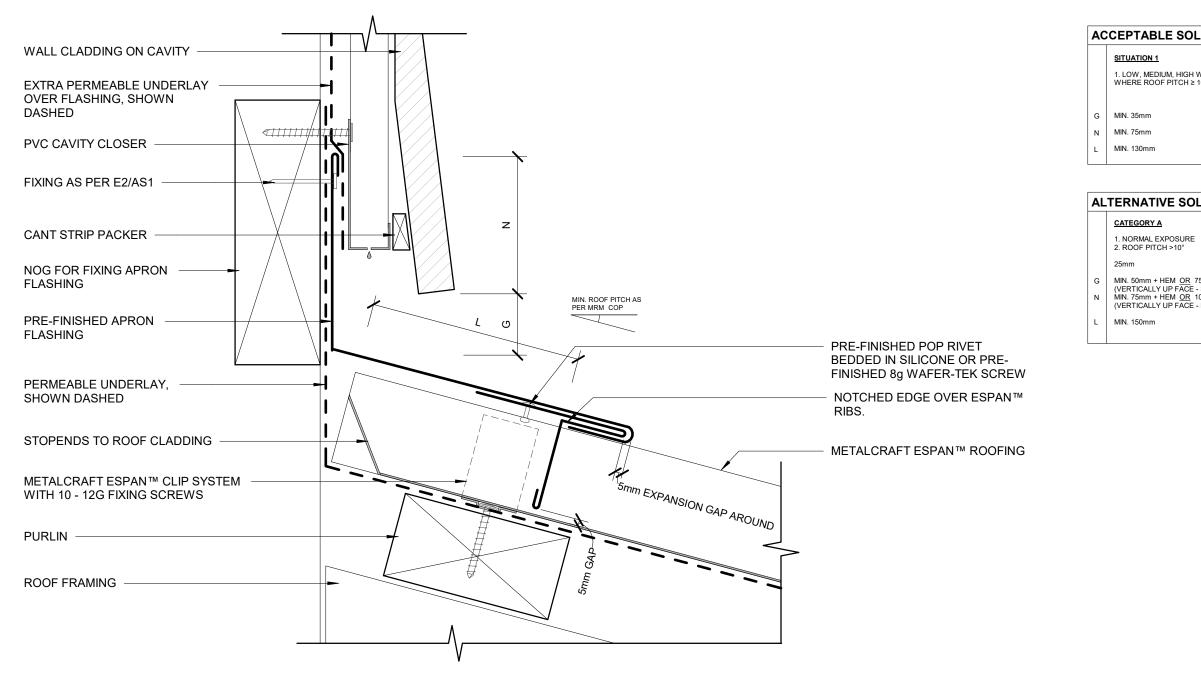
Espan 340[®] / 470[®]

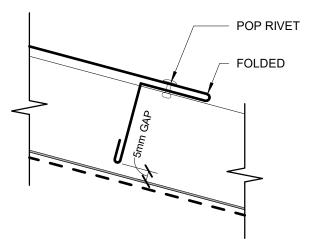
UTION AS PER E2/ASI		
	SITUATION 2	SITUATION 3
WIND ZONES, 10°	1. ALL ROOF PITCHES IN VERY HIGH WIND ZONES 2. LOW, MEDIUM, AND HIGH WIND ZONES WHERE ROOF PITCH ≤ 10°	1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE
	MIN. 35mm	MIN. 35mm
	MIN. 75mm	
	MIN. 200mm	MIN. 200mm

LUTION AS PER MRM CODE OF PRACTICE		
	CATEGORY B	
	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°	
	25mm	
5mm SMOOTH) 00mm PROFILED)	MIN. 75mm + HEM <u>OR</u> 100mm (VERTICALLY UP FACE - SMOOTH) MIN. 100mm + HEM <u>OR</u> 125mm (VERTICALLY UP FACE - PROFILED)	
	MIN. 200mm	

PARAPET WITH TRANSVERSE APRON Rev. 2.0 RESIDENTIAL ROOFING









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<u>ON 2</u> OOF PITCHES IN VERY HIGH DNES	SITUATION 3 1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE
MEDIUM, AND HIGH WIND WHERE ROOF PITCH ≤ 10°	WIND ZONE
nm	MIN. 35mm
nm	
mm	MIN. 200mm
r	WHERE ROOF PITCH ≤ 10° 1m 1m

LUTION AS PER MRM CODE OF PRACTICE	
	CATEGORY B
1	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°
	25mm
75mm - SMOOTH) 100mm - PROFILED)	MIN. 75mm + HEM <u>OR</u> 100mm (VERTICALLY UP FACE - SMOOTH) MIN. 100mm + HEM <u>OR</u> 125mm (VERTICALLY UP FACE - PROFILED)
	MIN. 200mm

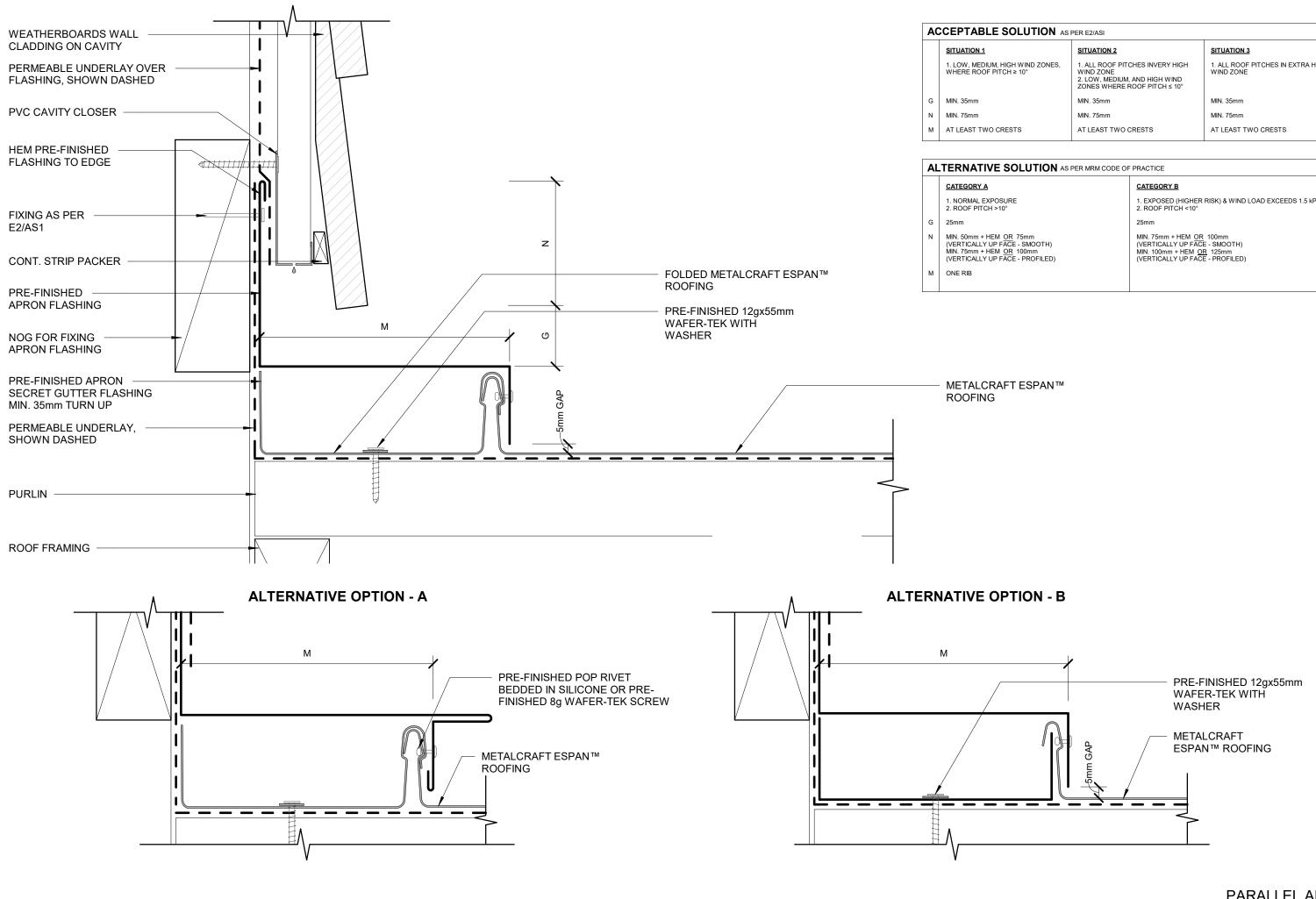
TRANSVERSE APRON

Rev. 2.0

RESIDENTIAL ROOFING

A 10

Scale 1:2





Espan 340[®] / 470[®]

Reference RREP

ION AS PER E2/ASI		
	SITUATION 2	SITUATION 3
ZONES,	1. ALL ROOF PITCHES INVERY HIGH WIND ZONE 2. LOW, MEDIUM, AND HIGH WIND ZONES WHERE ROOF PITCH ≤ 10°	1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE
	MIN. 35mm	MIN. 35mm
	MIN. 75mm	MIN. 75mm
	AT LEAST TWO CRESTS	AT LEAST TWO CRESTS

ION AS PER MRM CODE OF PRACTICE		
	CATEGORY B	
	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°	
	25mm	
OTH)	MIN. 75mm + HEM <u>OR</u> 100mm (VERTICALLY UP FACE - SMOOTH) MIN. 100mm + HEM OR 125mm	
FILED)	(VERTICALLY UP FACE - PROFILED)	

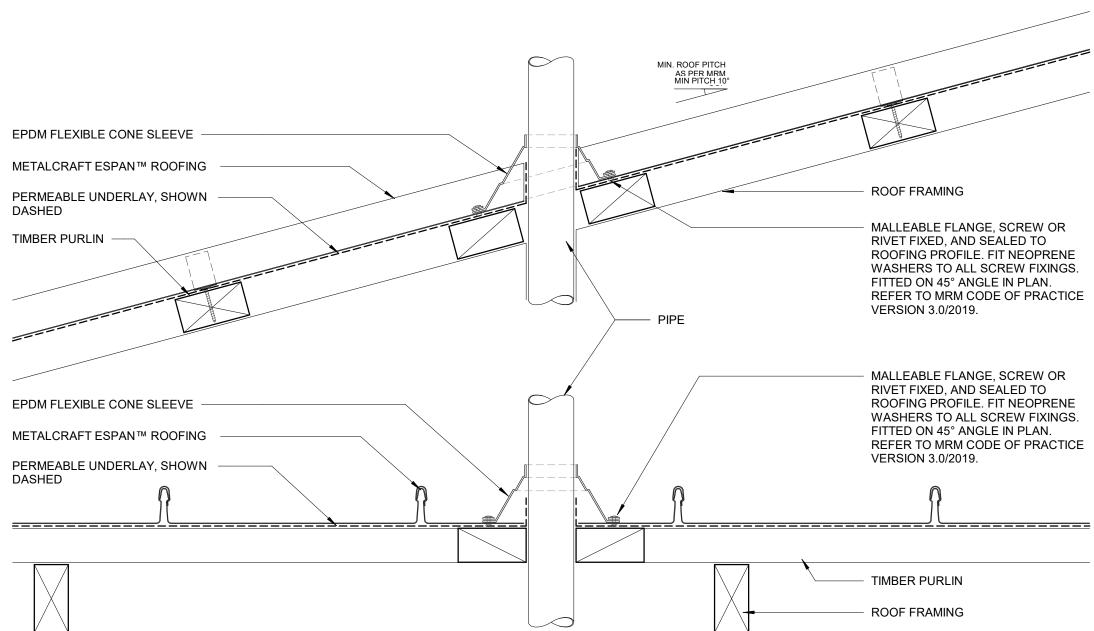
PARALLEL APRON **RESIDENTIAL ROOFING**

Rev. 2.0

Date FEB 2022

Scale 1:2







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Reference RREP

* 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.

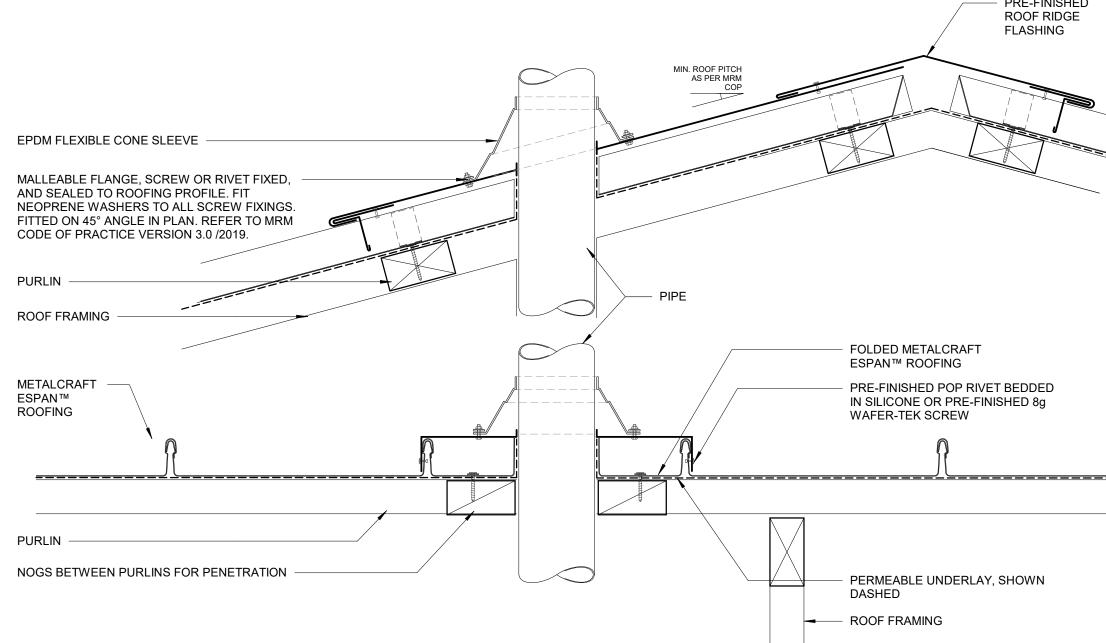
WHEN ROOF PITCH IS LESS THAN 10° USE BACK TRAY AS PER A13

REFER TO MRM CODE OF PRACTICE

PIPE PENETRATION DIRECT FIXED BOOT FLASHING **RESIDENTIAL ROOFING** Rev. 2.0

Date FEB 2022







Espan 340[®] / 470[®]

Reference RREP

* 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

PRE-FINISHED ROOF RIDGE

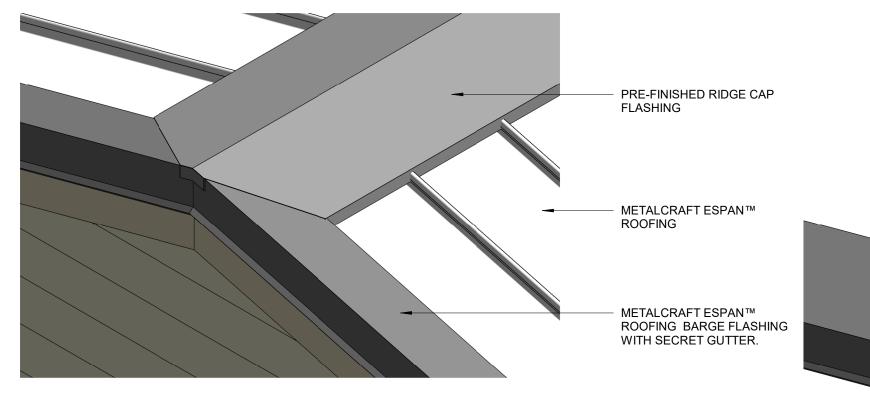


PIPE PENETRATION BACK TRAY BOOT FLASHING **RESIDENTIAL ROOFING** Rev. 2.0

Date FEB 2022

Scale 1:5





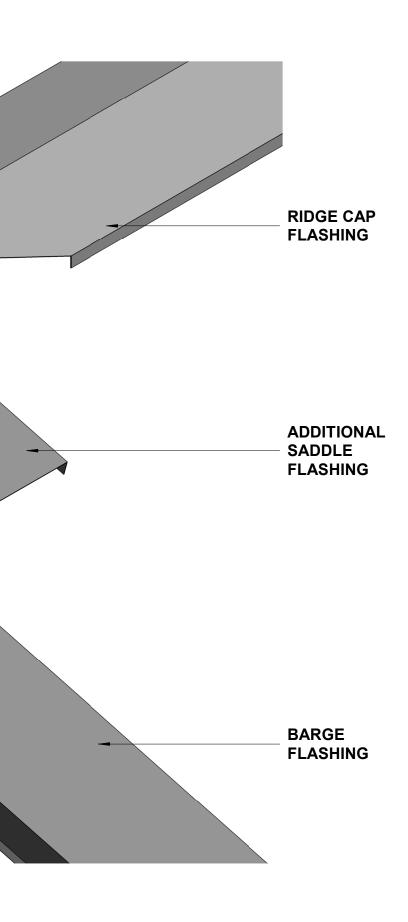
* PLEASE REFER TO MRM CODE OF PRACTICE VERSION 3.0 /2019



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Reference RREP



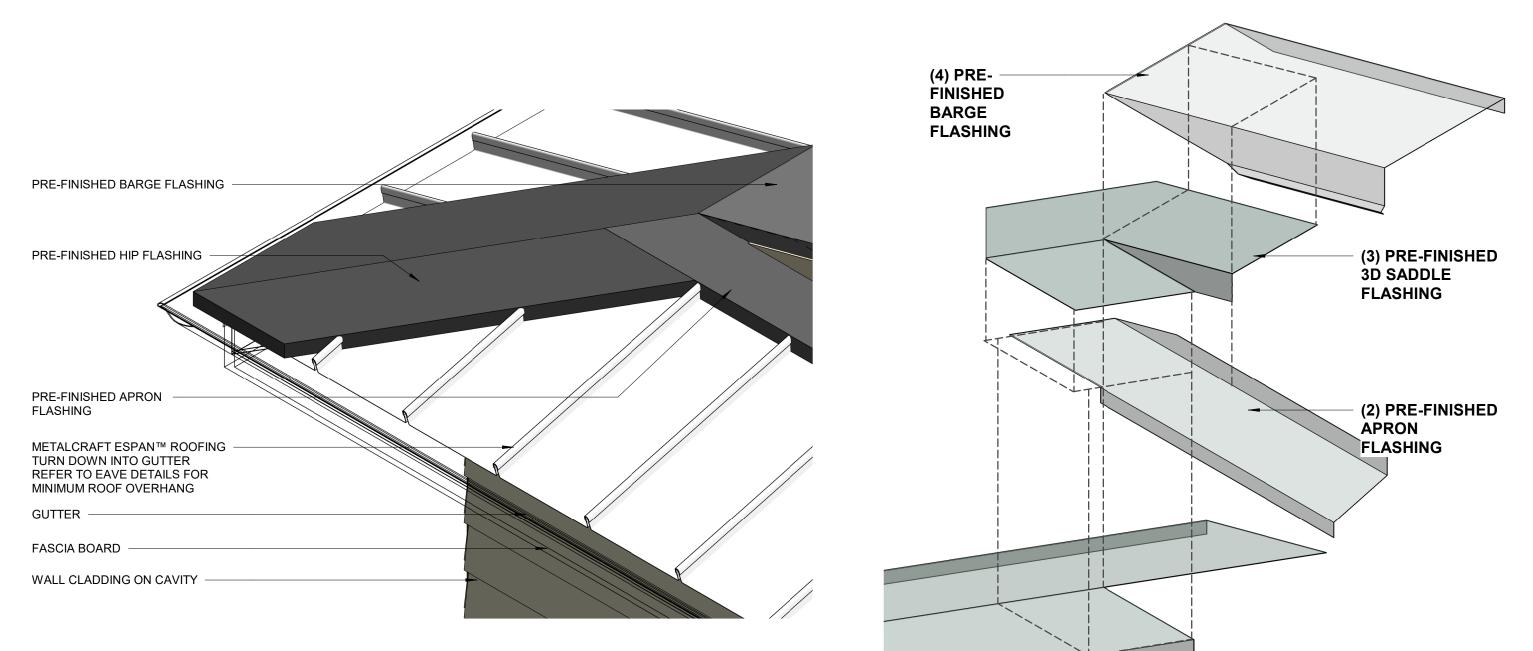
3D RIDGE TO BARGE JUCTION RESIDENTIAL ROOFING

Rev. 2.0

Date FEB 2022

Scale

A 14



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



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Reference RREP

(1) PRE-FINISHED HIP FLASHING

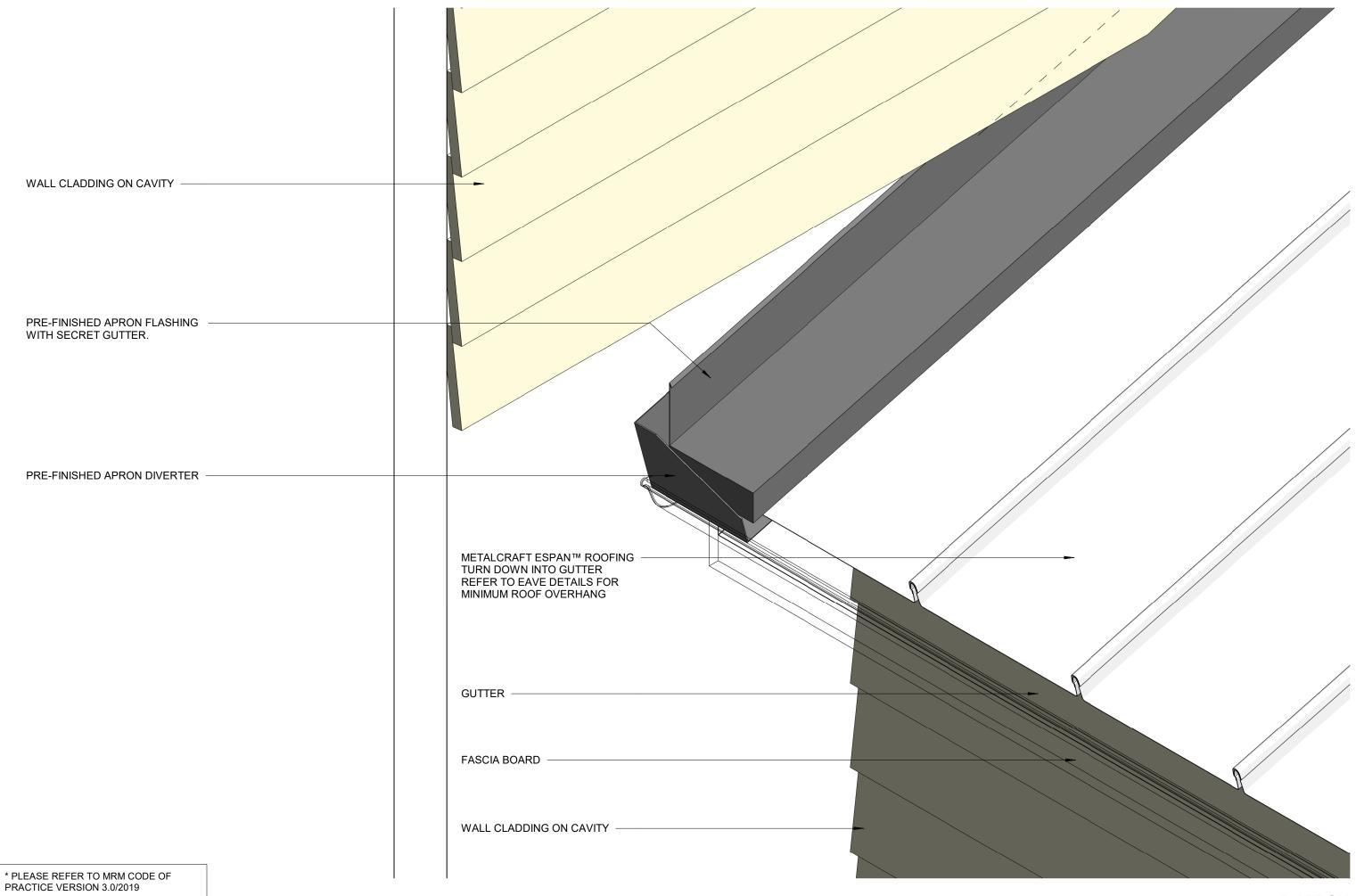


Rev. 2.0

Date FEB 2022

Scale





Metalcraft Roofing

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Reference RREP

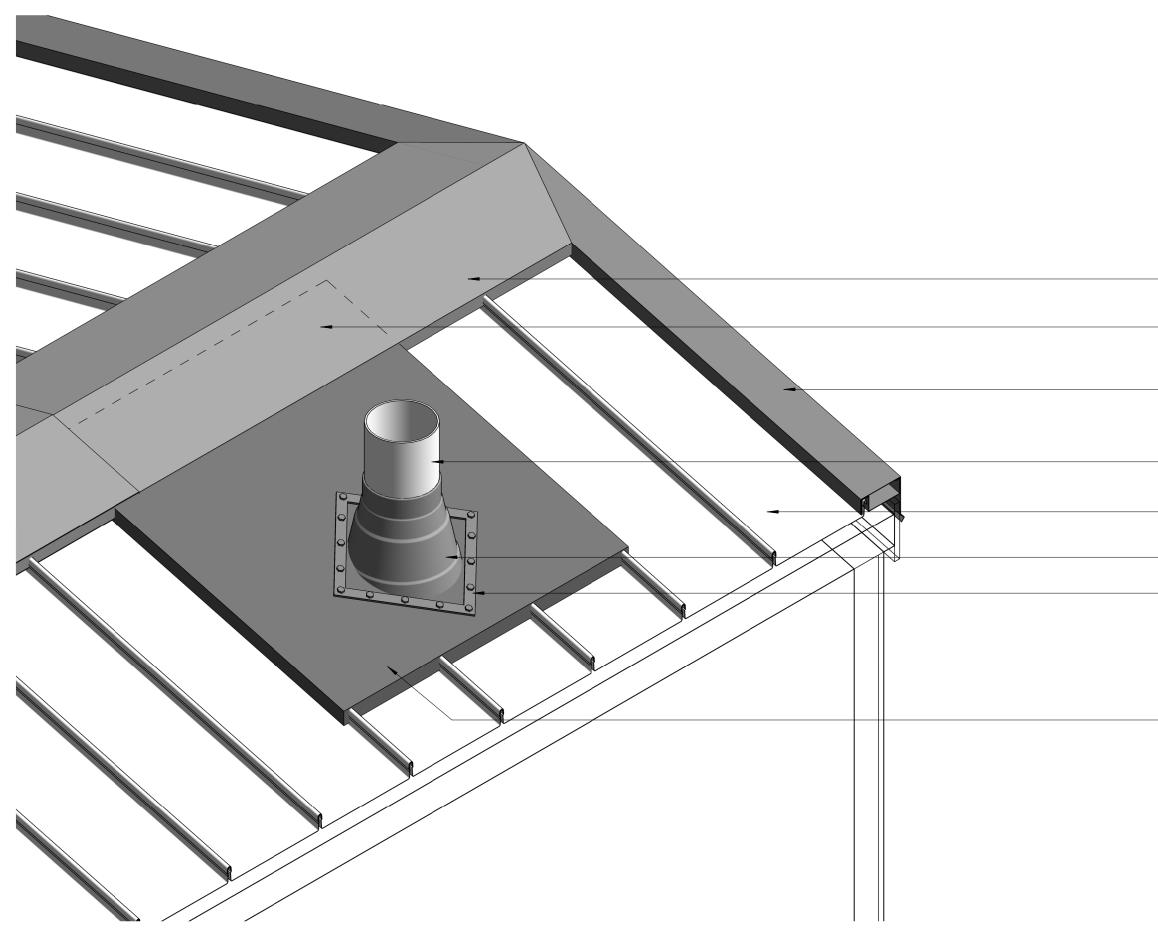
3D APRON RESIDENTIAL ROOFING

A 16

Rev. 2.0

Date FEB 2022

Scale





Espan 340[®] / 470[®]

Reference RREP

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

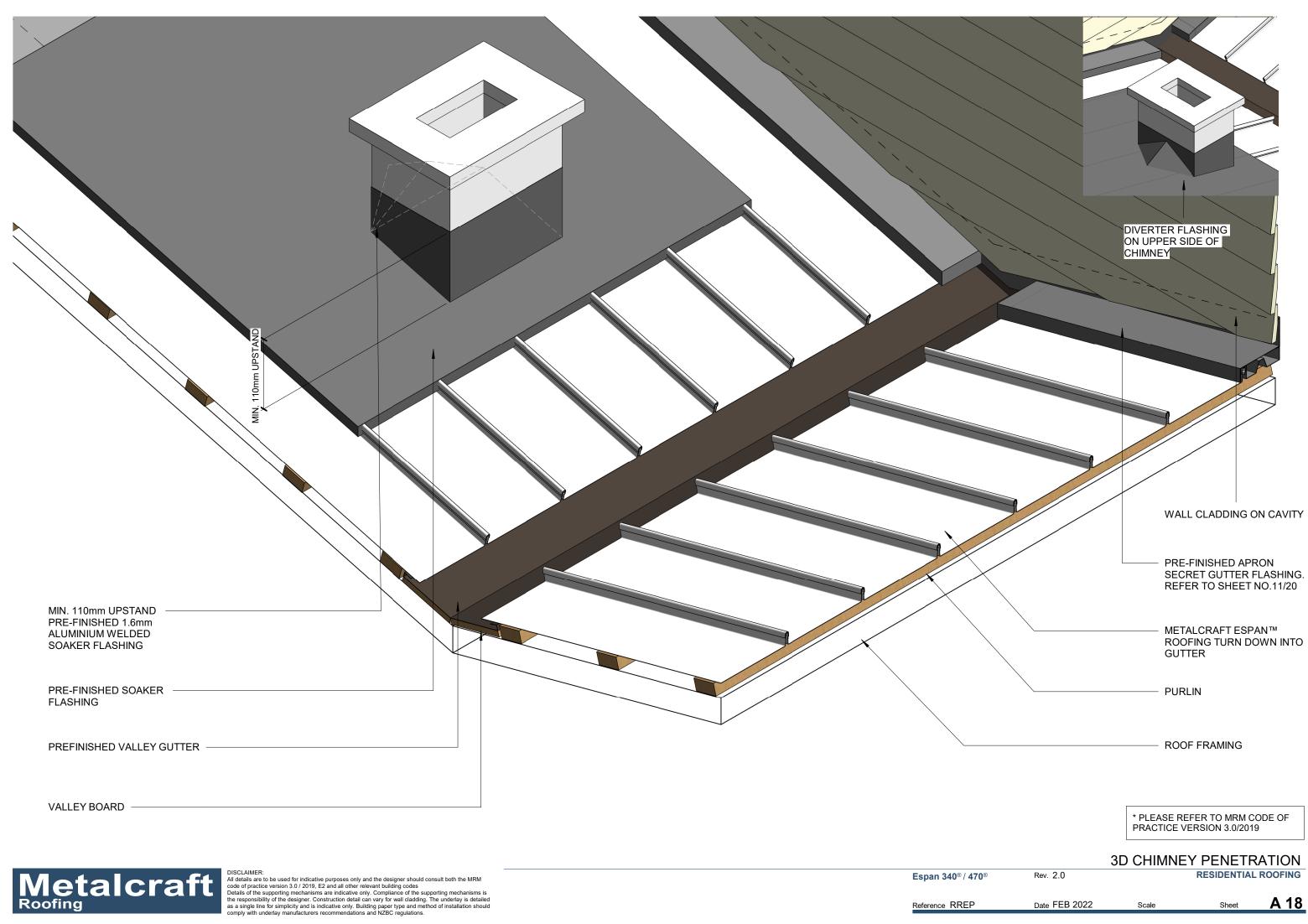
 PRE-FINISHED ROOF RIDGE FLASHING
 PRE-FINISHED SOAKER FLASHING UNDER PRE-FINISHED ROOF RIDGE FLASHING
 METALCRAFT ESPAN™ ROOFING BARGE FLASHING WITH SECRET GUTTER.
 PIPE (85mm < PIPE DIAMETER ≤ 500mm)
 METALCRAFT ESPAN™ ROOFING
 EPDM FLEXIBLE CONE SLEEVE
 MALLEABLE FLANGE, SCREW OR RIVET FIXED, AND SEALED 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

3D BACK TRAY PENETRATION RESIDENTIAL ROOFING

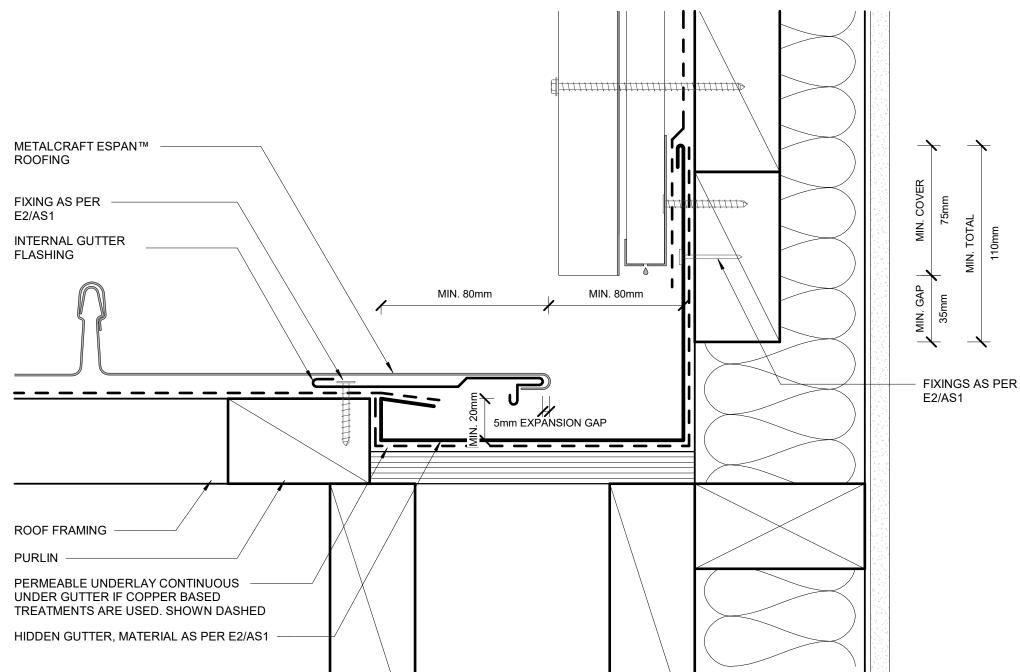
Rev. 2.0

Date FEB 2022











Espan 340[®] / 470[®]

Reference RREP

PARALLEL HIDDEN GUTTER

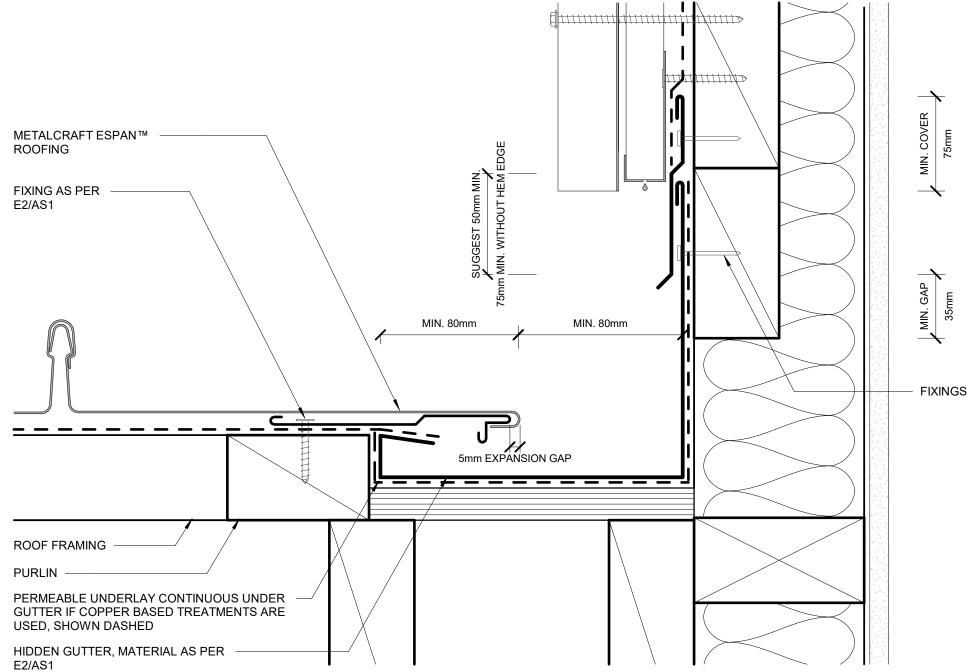
Rev. 2.0

RESIDENTIAL ROOFING

Date FEB 2022

Scale 1:2







Espan 340[®] / 470[®]

Reference Designer

FIXINGS AS PER E2/AS1

PARALLEL HIDDEN GUTTER (2 PART FLASHING) 470° Rev. 2.0 RESIDENTIAL ROOFING

Date FEB 2022

