Espan 340[®] / 470[®]

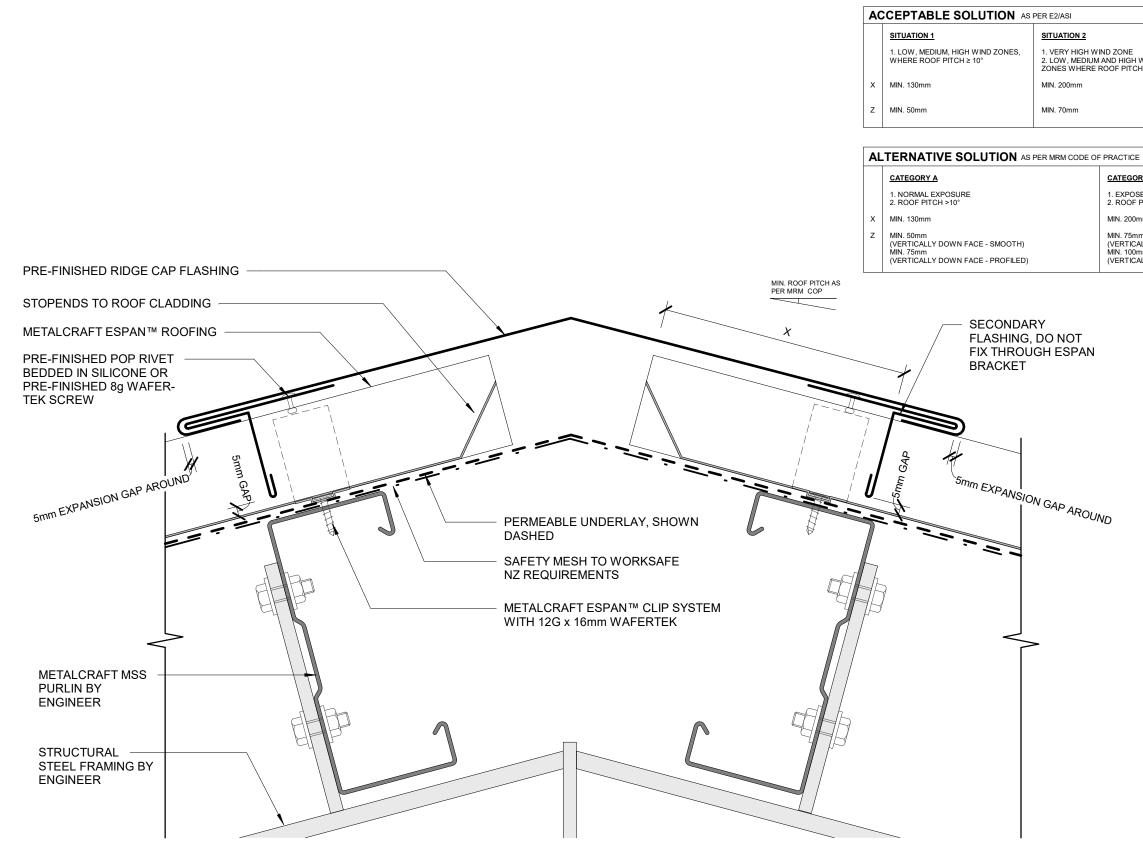
DETAIL LIST		Revision	Date
D 01	RIDGE WITH PROFILED APEX	2.0	JAN 2023
D 02	SAWTOOTH RIDGE	2.0	JAN 2023
D 03	INTERNAL GUTTER	2.0	JAN 2023
D 04	FLUSH EAVE WITH EXTERNAL BRACKET	2.0	JAN 2023
D 05	FLUSH EAVE WITH EXTERNAL GUTTER BRACKET	2.0	JAN 2023
D 06	BARGE WITH PROFILED CLADDING	2.0	JAN 2023
D 07	PARAPET WITH TRANSVERSE APRON	2.0	JAN 2023
D 08	TRANSVERSE APRON	2.0	JAN 2023
D 09	PARALLEL APRON	2.0	JAN 2023

CREP

FOR ADDITIONAL DETAILS - REFER TO RESIDENTIAL ROOFING ESPAN

COMMERCIAL ROOFING







Espan 340[®] / 470[®]

Reference CREP

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)	

RIDGE WITH PROFILED APEX

Rev. 2.0

COMMERCIAL ROOFING

D 01

Date JAN 2023

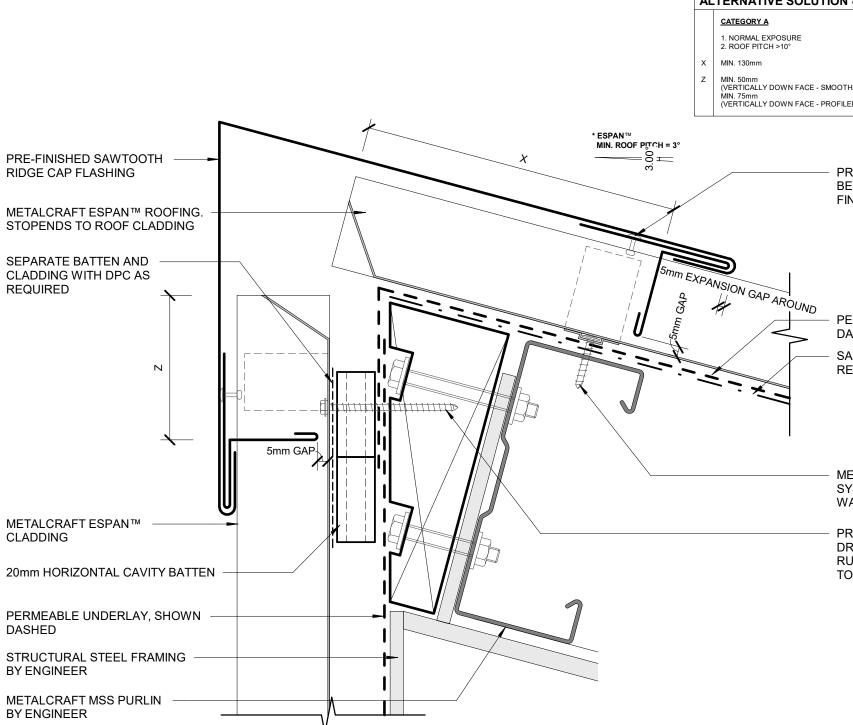
Scale 1:2

ACCEPTABLE SOL

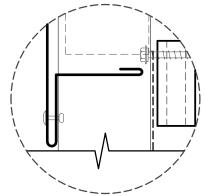
SITUATION 1

1. LOW, MEDIUM, HIGH WI WHERE ROOF PITCH ≥ 10 MIN. 130mm

MIN, 50mm 7









DISCLAIMER: All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 3.0 / 2022, 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.

DASHED

Espan 340[®] / 470[®]

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

ALTERNATIVE SOLUTION AS PER MRM CODE OF PRACTICE

	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)	

_	PRE-FINISHED POP RIVET
	BEDDED IN SILICONE OR PRE-
	FINISHED 8g WAFER-TEK SCREW

- PERMEABLE UNDERLAY, SHOWN DASHED
- SAFETY MESH TO WORKSAFE NZ REQUIREMENTS
- METALCRAFT ESPAN™ CLIP SYSTEM WITH 12G x 16mm WAFERTEK
- PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH RUBBER WASHER FOR FIXING TOP OF ESPAN™ CLADDING

SAWTOOTH RIDGE COMMERCIAL ROOFING

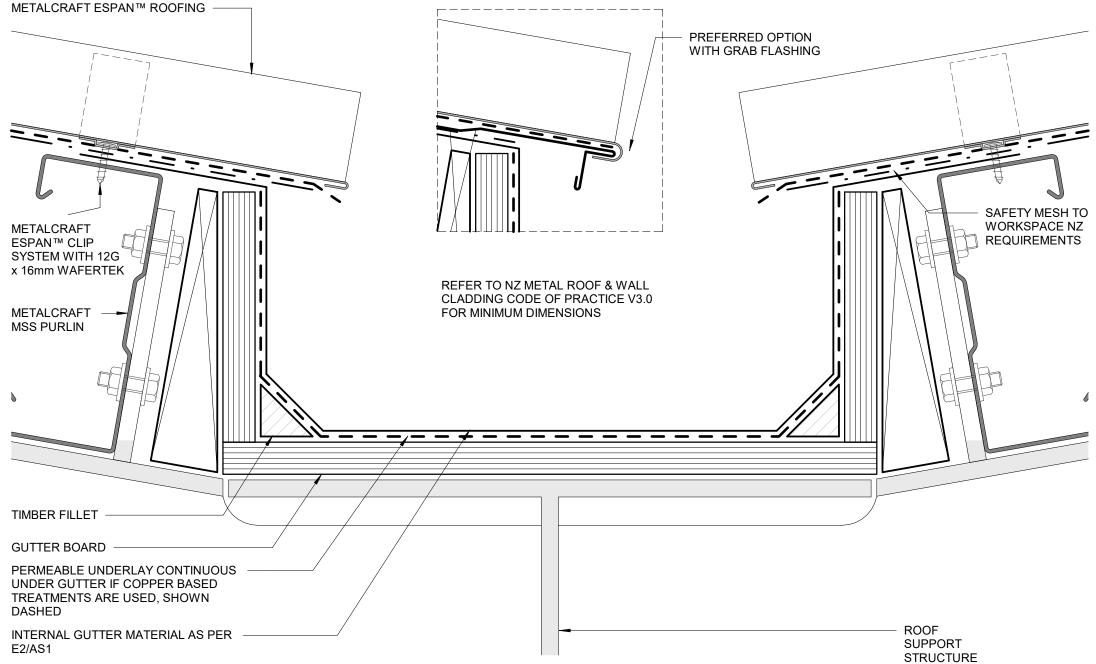
Rev. 2.0

Date JAN 2023

Scale 1:2

Sheet

D 02





Espan 340[®] / 470[®]

Reference CREP

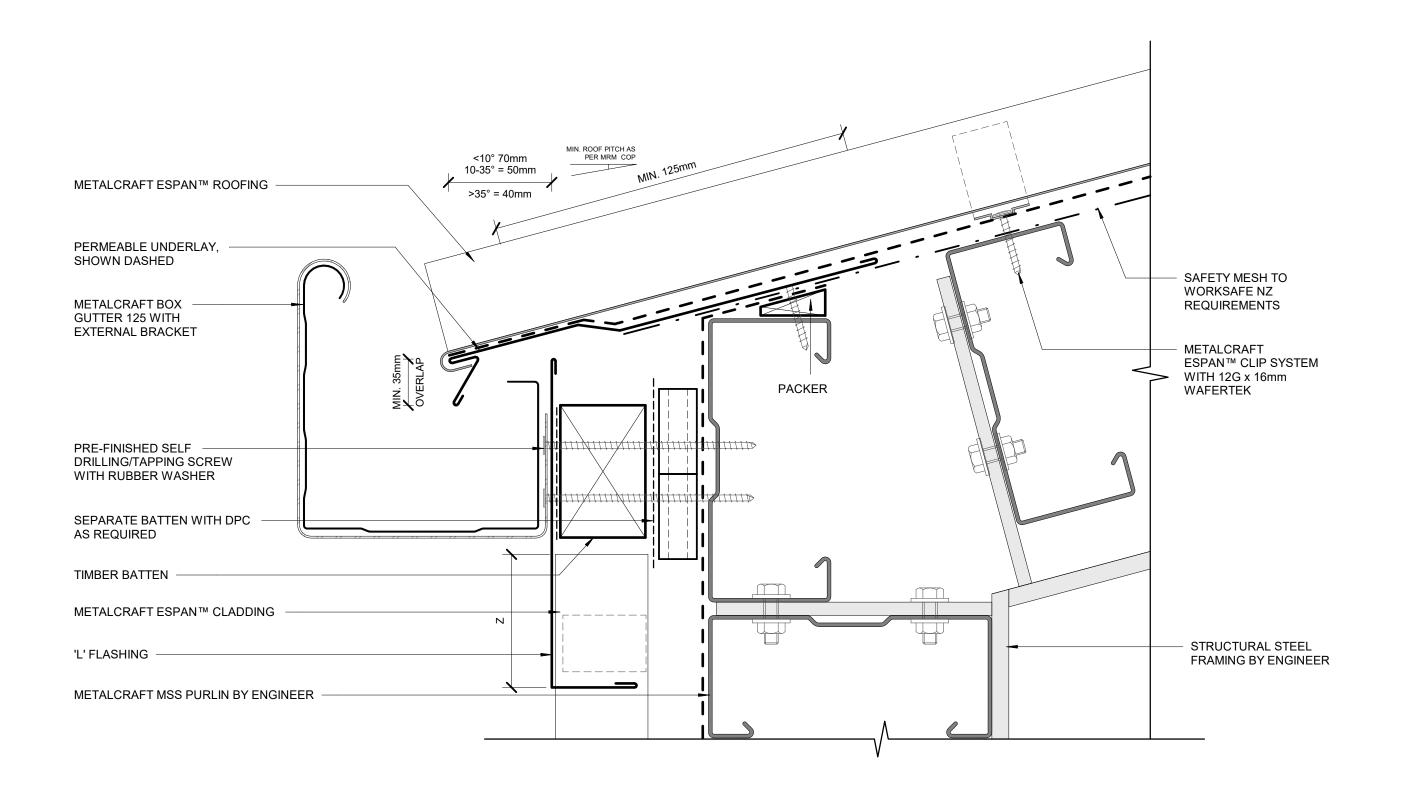
INTERNAL GUTTER COMMERCIAL ROOFING

Rev. 2.0

Date JAN 2023

Scale 1:2

D 03





Espan 340[®] / 470[®]

Reference CREP

EAVE FLASHING IS ALWAYS REQUIRED

FLUSH EAVE WITH EXTERNAL BRACKET COMMERCIAL ROOFING Rev. 2.0

D 04

Date JAN 2023

Scale 1:2

	0° = 70mm 35° = 50mm 55° = 40mm	
PERMEABLE UNDERLAY,	MIN. 120	
METALCRAFT BOX GUTTER 125 WITH EXTERNAL BRACKET		PACKER
PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH RUBBER WASHER		
SEPARATE BATTEN AND CLADDING WITH DPC AS REQUIRED		
METALCRAFT ESPAN™ CLADDING METALCRAFT MSS PURLIN BY ENGINEER		



Espan 340[®] / 470[®]

Reference CREP

EAVE FLASHING IS ALWAYS REQUIRED



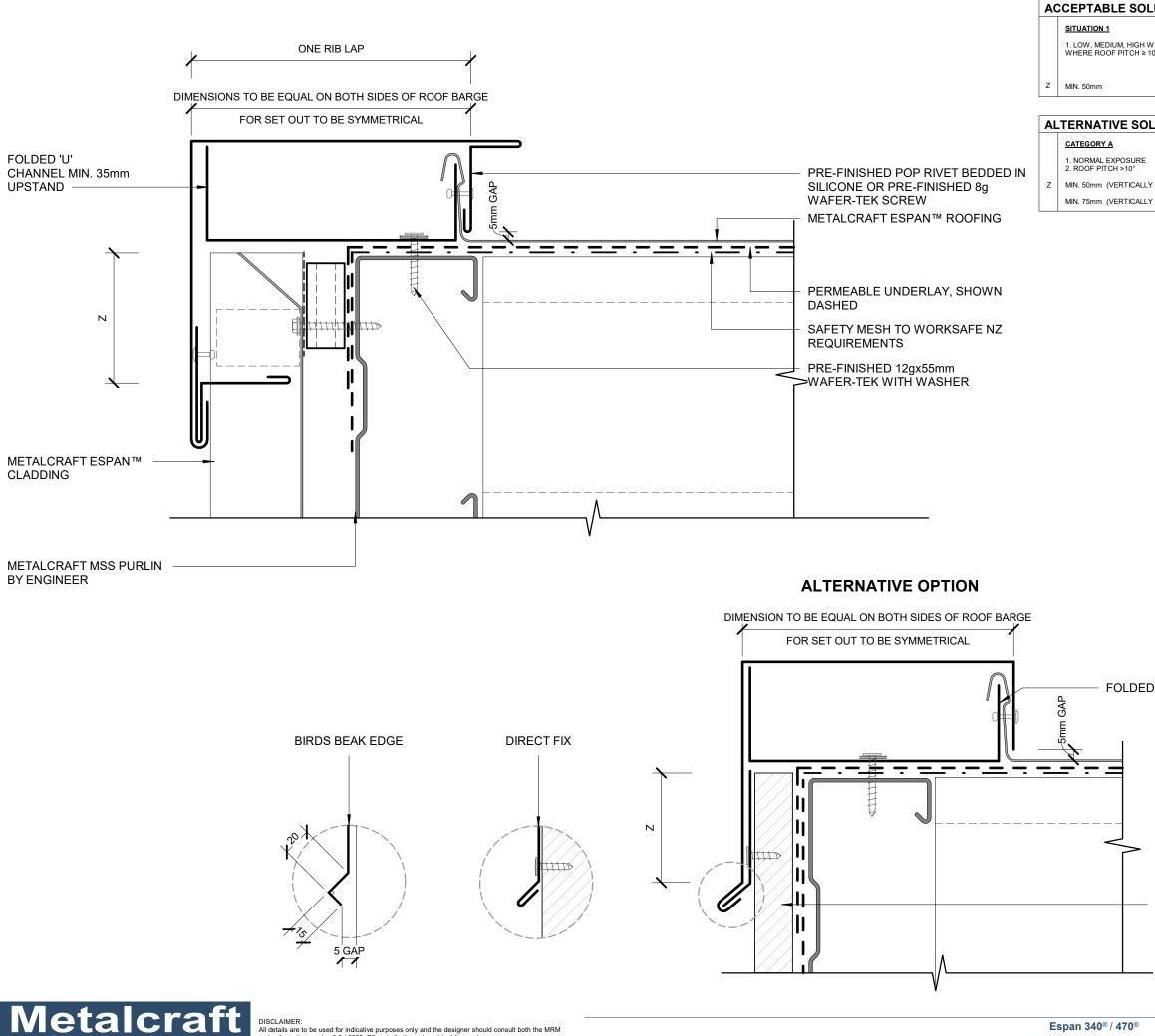
FLUSH EAVE WITH EXTERNAL GUTTER BRACKET COMMERCIAL ROOFING Rev. 2.0

Date JAN 2023

Scale 1:2

Sheet

D 05



Roofing www.metalcraftgroup.co.nz

DISCLAIMER: All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 3.0 / 2022, 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.

Espan 340[®] / 470[®]

Reference CREP

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)	

FOLDED 'U' CHANNEL

BARGE BOARD

BARGE WITH PROFILED CLADDING

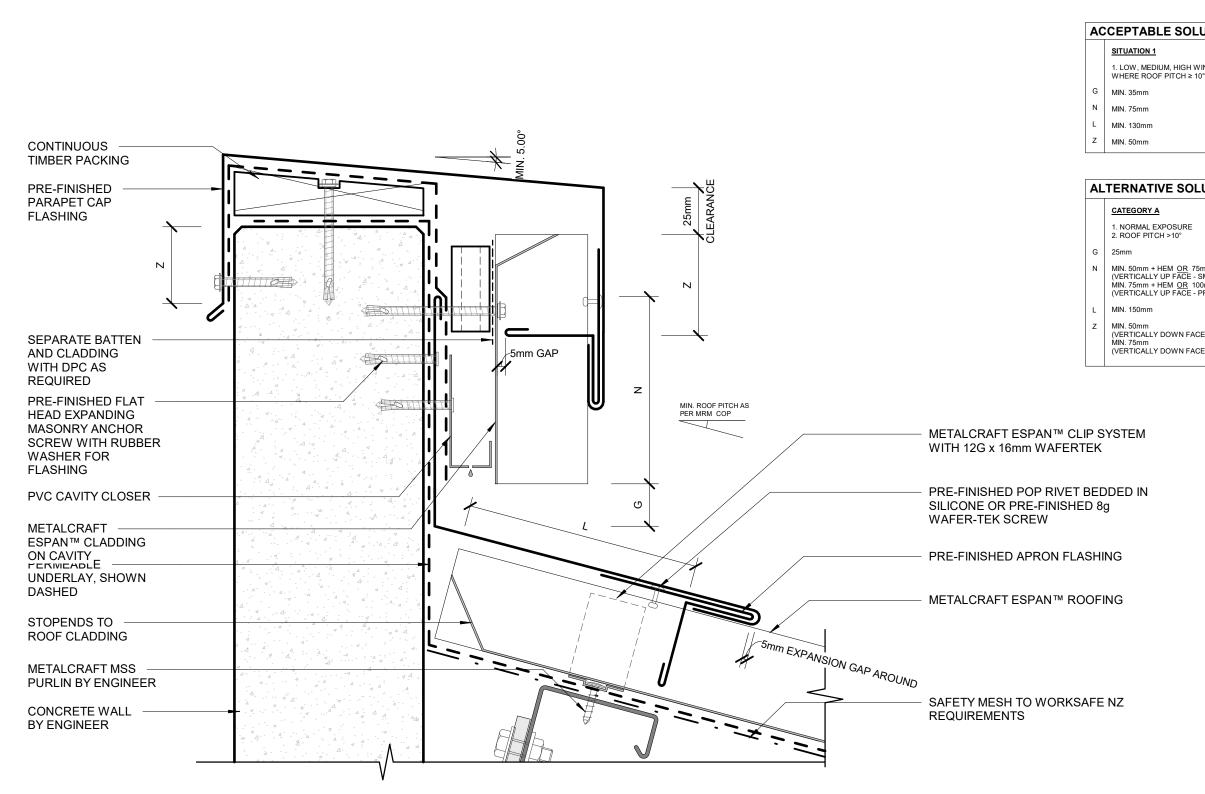
Rev. 2.0

COMMERCIAL ROOFING

D 06

Date JAN 2023

Scale 1:2





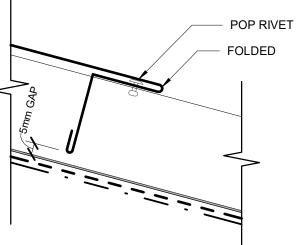
Espan 340[®] / 470[®]

Reference CREP

<u>N 3</u> OF PITCHES IN EXTRA HIGH
OF PITCHES IN EXTRA HIGH
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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	
CE - SMOOTH) CE - PROFILED)	MIN. 75mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 100mm (VERTICALLY DOWN FACE - PROFILED)	

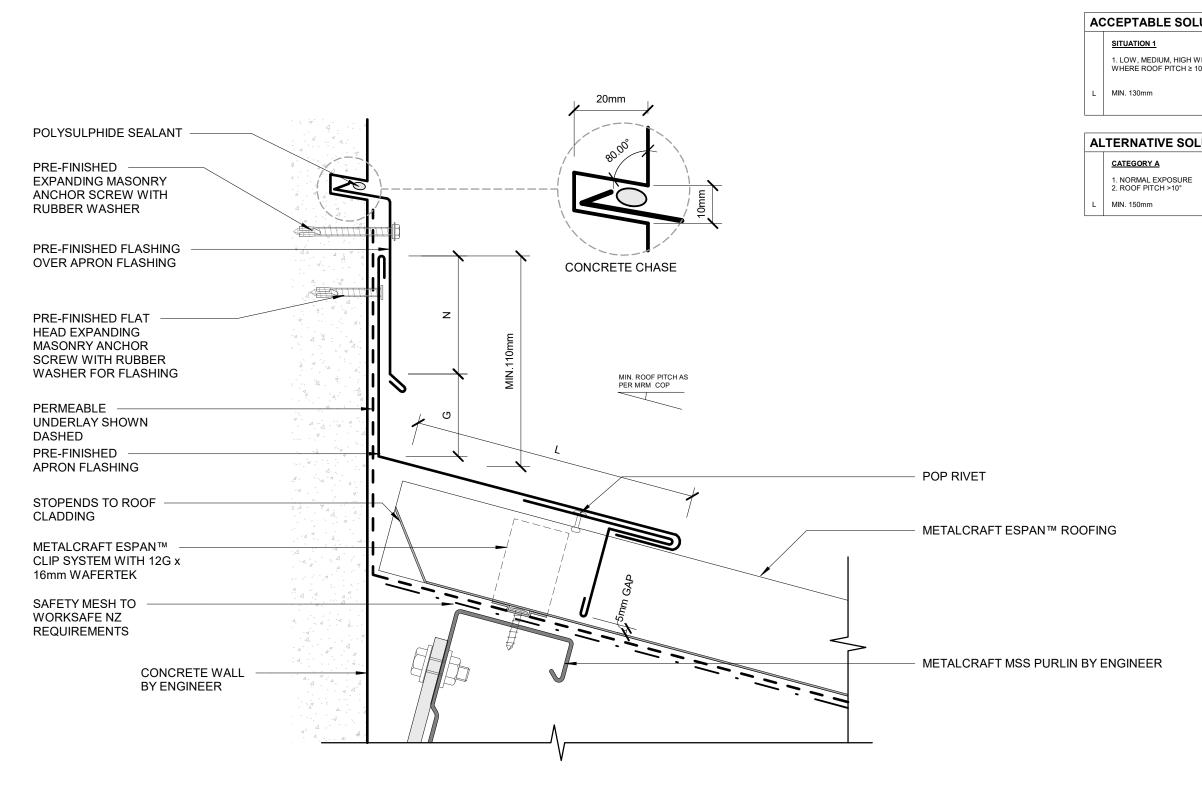
ALTERNATIVE OPTION



PARAPET WITH TRANSVERSE APRON Rev. 2.0 COMMERCIAL ROOFING

Scale 1:2

D 07





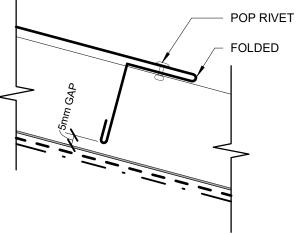
Espan 340[®] / 470[®]

Reference CREP

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 EXTRA HIGH WIND ZONE
	MIN. 200mm	MIN. 200mm

CATEGORY A CATEGORY B 1. NORMAL EXPOSURE 1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH >10° 2. ROOF PITCH <10°</td> L MIN. 150mm MIN. 200mm

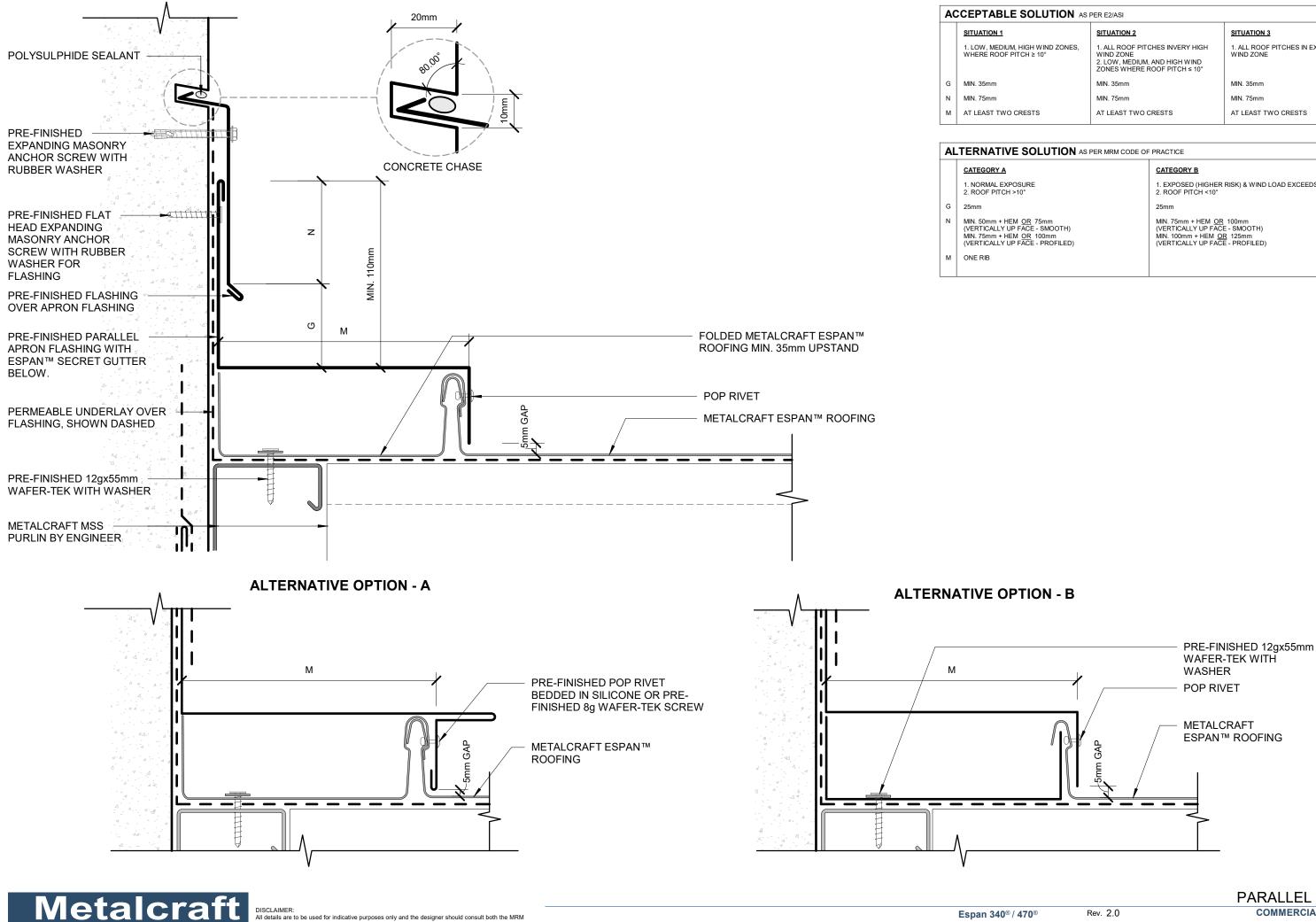
ALTERNATIVE OPTION



TRANSVERSE APRON COMMERCIAL ROOFING

Rev. 2.0

Date JAN 2023



Roofing

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Espan 340[®] / 470[®]

Reference CREP

JTION AS PER E2/ASI			
	SITUATION 2	SITUATION 3	
ND 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	

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

PARALLEL APRON COMMERCIAL ROOFING

Rev. 2.0

Date JAN 2023

Scale 1:2

D 09