

# Metdek 500

## COMMERCIAL ROOFING

<u>DETAIL LIST</u>	<u>Revision</u>	<u>Date</u>
00 / 18	COVER SHEET	
01 / 18	RIDGE WITH PROFILED APEX	1.0 JAN 2023
02 / 18	RIDGE WITH NON PROFILED APEX	1.0 JAN 2023
03 / 18	RIDGE VENT	1.0 JAN 2023
04 / 18	SAWTOOTH RIDGE	1.0 JAN 2023
05 / 18	INTERNAL GUTTER	1.0 JAN 2023
06 / 18	FLUSH EAVE WITH EXTERNAL GUTTER BRACKET	1.0 JAN 2023
07 / 18	FLUSH EAVE WITH PAN FIXED GUTTER	1.0 JAN 2023
08 / 18	BARGE WITH PROFILED CLADDING	1.0 JAN 2023
09 / 18	BARGE OVERHANG	1.0 JAN 2023
10 / 18	PARAPET WITH TRANSVERSE APRON	1.0 JAN 2023
11 / 18	TRANSVERSE APRON	1.0 JAN 2023
12 / 18	PARALLEL APRON	1.0 JAN 2023
13 / 18	PARALLEL HIDDEN GUTTER	1.0 JAN 2023
14 / 18	PARALLEL HIDDEN GUTTER (2 PART FLASHING)	1.0 JAN 2023
15 / 18	ROOF STEP	1.0 JAN 2023
16 / 18	TRANSLUCENT SHEETS - LONG SECTION	1.0 JAN 2023
17 / 18	TRANSLUCENT SHEETS - CROSS	1.0 JAN 2023
18 / 18	3D TRANSLUCENT SHEETS	1.0 JAN 2023

CRMD500

**Metalcraft**  
Roofing  
[www.metalcraftgroup.co.nz](http://www.metalcraftgroup.co.nz)

PRE-FINISHED RIDGE CAP FLASHING

STOPENDS TO ROOF CLADDING

METALCRAFT METDEK 500 ROOFING

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

NOTCHED EDGE DRESSED OVER METDEK 500 RIBS

5mm GAP

IF VENTILATION IS REQUIRED\*\*

PERMEABLE UNDERLAY SHOWN DASHED

SAFETY MESH TO WORKSAFE NZ REQUIREMENTS

5mm GAP

METALCRAFT METDEK 500 CLIP SYSTEM WITH 12G x 16mm WAFERTEK

METALCRAFT MSS PURLIN BY ENGINEER

STRUCTURAL STEEL FRAMING BY ENGINEER

\*\*E2/AS1 NO LONGER PREVENTS VENTILATION OF INSULATED SPACES. REFER TECHNICAL BULLETIN: VENTILATION OF ROOF SPACES

- BUILDING PAPER IS THE COMMON GENERIC NAME FOR PERMEABLE ROOF AND WALL UNDERLAYS. PLEASE REFER TO NZBC E2/AS1 AND MRM CODE OF PRACTICE VERSION 3.0 /2022.

\* - PLEASE REFER TO MRM CODE OF PRACTICE VERSION 3.0 /2022 AS MINIMUM PITCH WILL INCREASE DEPENDING ON DEFLECTION AND RAINWATER

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**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. VERY HIGH WIND ZONE  
2. LOW, MEDIUM & HIGH WIND ZONES WHERE ROOF PITCH  $\leq 10^\circ$

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

**SITUATION 3**

1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE.

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

**AS PER MRM CODE OF PRACTICE**

**CATEGORY A**

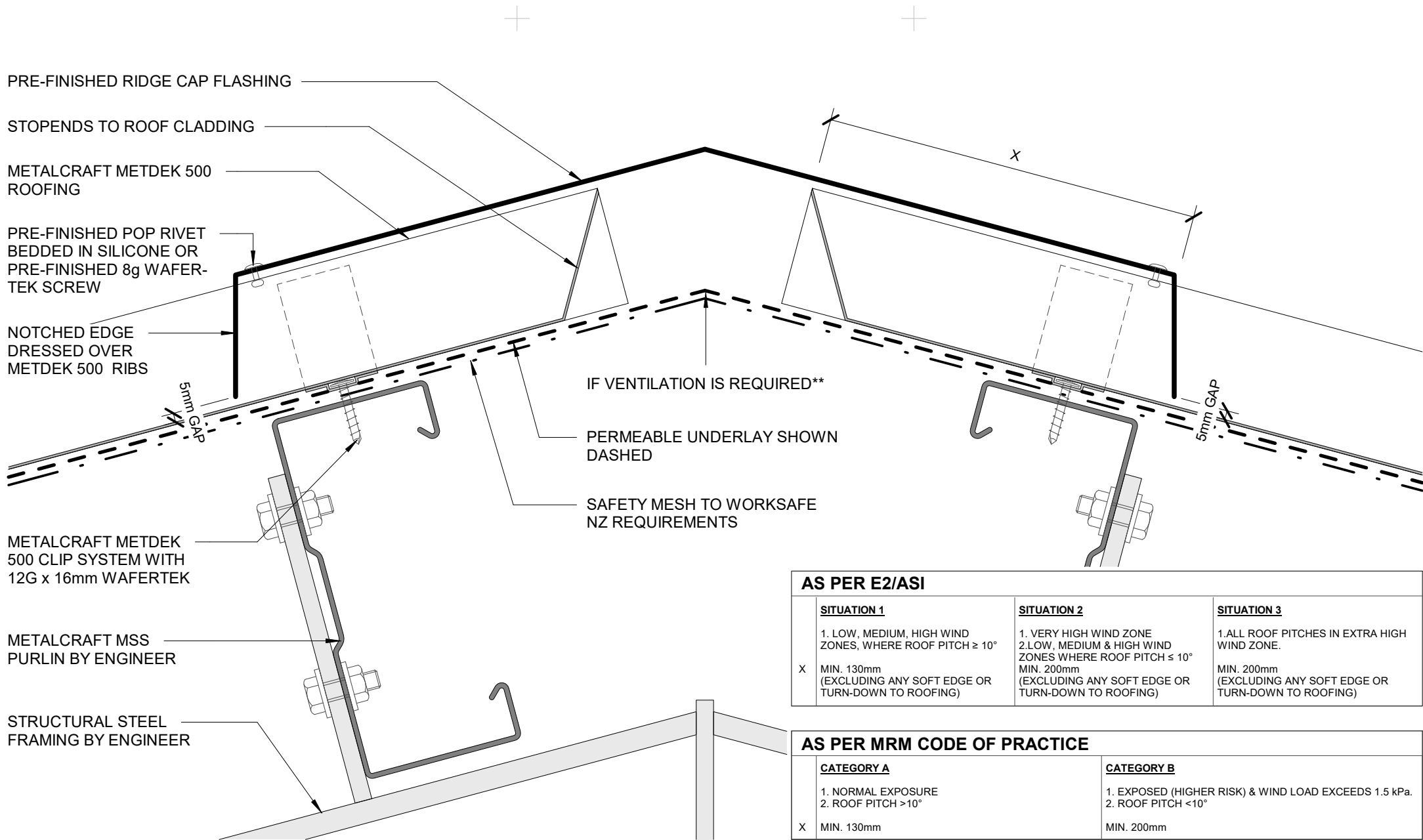
1. NORMAL EXPOSURE  
2. ROOF PITCH  $>10^\circ$

X MIN. 130mm

**CATEGORY B**

1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa.  
2. ROOF PITCH  $<10^\circ$

X MIN. 200mm



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STOPENDS TO ROOF CLADDING

METALCRAFT METDEK 500 ROOFING

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

NOTCHED EDGE DRESSED OVER METDEK 500 RIBS

5mm GAP

IF VENTILATION IS REQUIRED\*\*

PERMEABLE UNDERLAY SHOWN DASHED

SAFETY MESH TO WORKSAFE NZ REQUIREMENTS

5mm GAP

METALCRAFT METDEK 500 CLIP SYSTEM WITH 12G x 16mm WAFERTEK

METALCRAFT MSS PURLIN BY ENGINEER

STRUCTURAL STEEL FRAMING BY ENGINEER

AS PER E2/ASI		
SITUATION 1	SITUATION 2	SITUATION 3
1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH $\geq 10^\circ$ X MIN. 130mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)	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)	1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE. MIN. 200mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)

AS PER MRM CODE OF PRACTICE	
CATEGORY A	CATEGORY B
1. NORMAL EXPOSURE 2. ROOF PITCH $> 10^\circ$ X MIN. 130mm	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH $< 10^\circ$ MIN. 200mm

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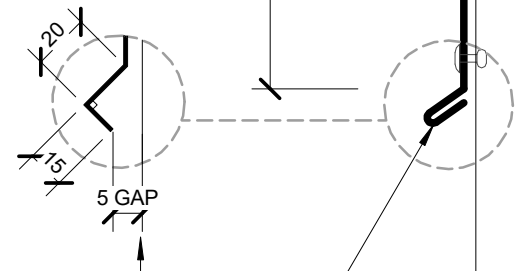
**Metalcraft Roofing**  
 www.metalcraftgroup.co.nz

\* METDEK 500 MIN. ROOF PITCH = 3°

PRE-FINISHED SAWTOOTH  
RIDGE CAP FLASHING

STOPENDS TO ROOF CLADDING

SEPARATE BATTEN AND  
CLADDING WITH EPDM AS  
REQUIRED



ALTERNATIVE OPTION  
BIRDS BEAK EDGE

HEMMED EDGE

METALCRAFT METDEK 500  
CLADDING

20mm CAVITY

PERMEABLE UNDERLAY SHOWN  
DASHED

STRUCTURAL STEEL FRAMING  
BY ENGINEER

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PERMEABLE  
ROOF AND WALL UNDERLAYS. PLEASE REFER TO NZBC E2/AS1 AND  
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MINIMUM PITCH WILL INCREASE DEPENDING ON DEFLECTION AND  
RAINFALL

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NZBC regulations.

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

METALCRAFT METDEK 500 ROOFING

NOTCHED EDGE DRESSED OVER  
METDEK 500 RIBS

PERMEABLE UNDERLAY SHOWN  
DASHED

SAFETY MESH TO WORKSAFE NZ  
REQUIREMENTS

METALCRAFT METDEK 500 CLIP SYSTEM  
WITH 12G x 16mm WAFERTEK

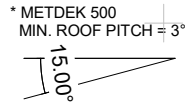
PRE-FINISHED SELF DRILLING/TAPPING  
SCREW WITH RUBBER WASHER

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 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
1. NORMAL EXPOSURE 2. ROOF PITCH $>10^\circ$	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH $<10^\circ$
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)

METALCRAFT MSS  
PURLIN BY ENGINEER

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  
 ENGINEER SPECIFIC DESIGN  
 MRM RECOMMENDS TO USE IN AREAS EXPOSED TO CONTAMINATORS SUCH AS SEA SALT OR INDUSTRIAL POLLUTANTS



DIMENSION TO SUIT  
 SUGGEST MIN. 125mm

METALCRAFT METDEK 500 ROOFING

PERMEABLE UNDERLAY SHOWN DASHED

PRE-FINISHED EAVE FLASHING

METALCRAFT BOX GUTTER 125 WITH EXTERNAL BRACKET

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH RUBBER WASHER

SEPARATE BATTEN AND CLADDING WITH EPDM AS REQUIRED

FASCIA BOARD

METALCRAFT METDEK 500 CLADDING ON CAVITY

METALCRAFT MSS PURLIN BY ENGINEER

MIN. 50mm  
 OR AS REQUIRED

MIN. 35mm  
 OVERLAP

PACKER

SAFETY MESH TO WORKSAFE NZ REQUIREMENTS

METALCRAFT METDEK 500 CLIP SYSTEM WITH 12G x 16mm WAFERTEK

STRUCTURAL STEEL FRAMING BY ENGINEER

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## FLUSH EAVE WITH EXTERNAL GUTTER BRACKET

Metdek 500

Rev. 1.0

COMMERCIAL ROOFING

Reference CRMD500

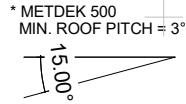
Date JAN 2023

Scale 1 : 2

Sheet

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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  
 ENGINEER SPECIFIC DESIGN  
 MRM RECOMMENDS TO USE IN AREAS EXPOSED TO CONTAMINATORS SUCH AS SEA SALT OR INDUSTRIAL POLLUTANTS



METALCRAFT METDEK 500 ROOFING

PERMEABLE UNDERLAY SHOWN DASHED

PRE-FINISHED EAVE FLASHING

METALCRAFT BOX GUTTER 125 WITH EXTERNAL BRACKET

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH RUBBER WASHER

SEPARATE BATTEN AND CLADDING WITH EPDM AS REQUIRED

METALCRAFT METDEK 500 CLADDING ON CAVITY

METALCRAFT MSS PURLIN BY ENGINEER

MIN. 50mm OR AS REQUIRED

DIMENSION TO SUIT SUGGEST MIN. 125mm

MIN. 35mm OVERLAP

PACKER

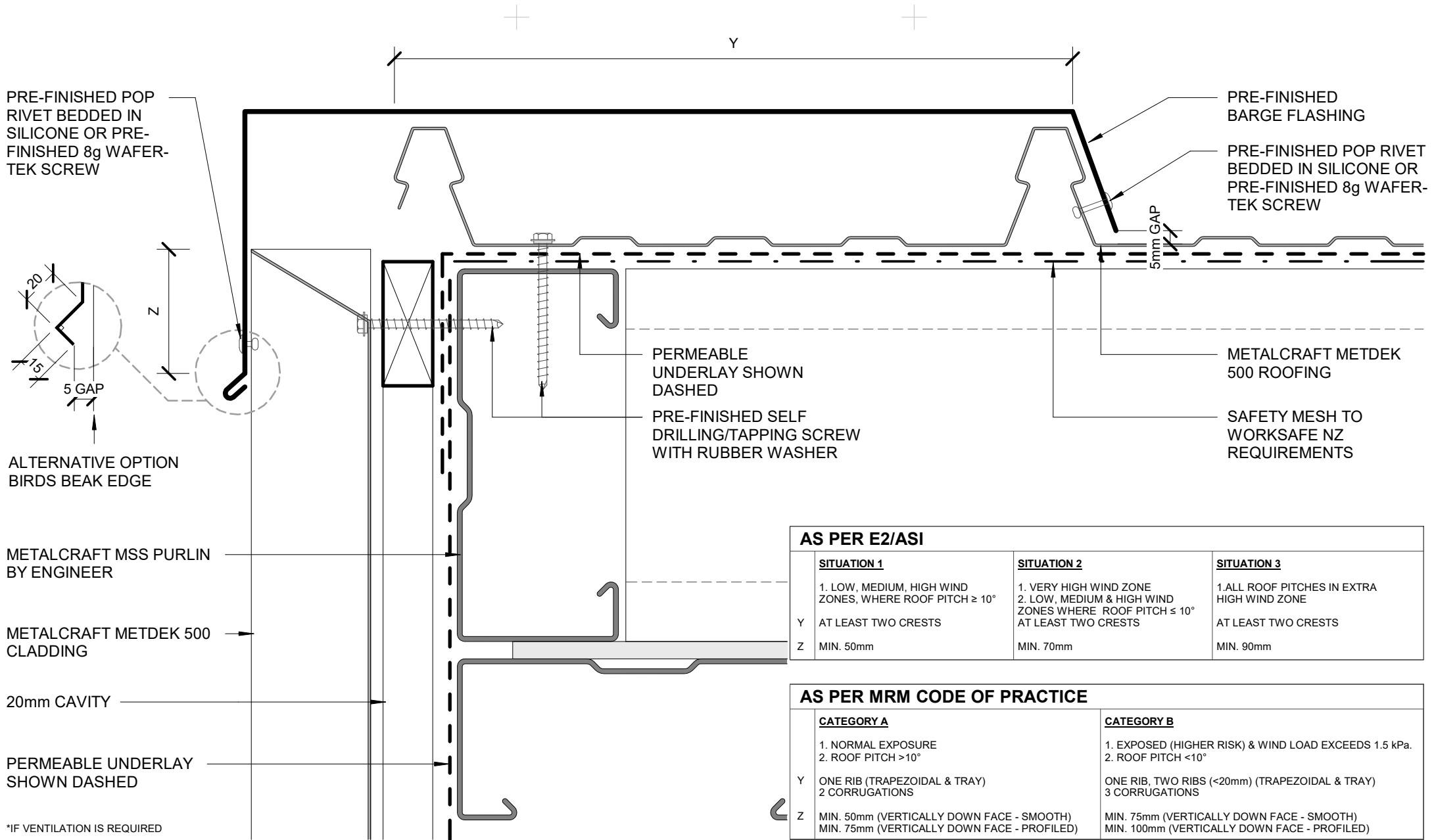
SAFETY MESH TO WORKSAFE NZ REQUIREMENTS

METALCRAFT METDEK 500 CLIP SYSTEM WITH 12G x 16mm WAFERTEK

STRUCTURAL STEEL FRAMING BY ENGINEER

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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	1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE
2. LOW, MEDIUM & HIGH WIND ZONES WHERE ROOF PITCH $\leq 10^\circ$	2. LOW, MEDIUM & HIGH WIND ZONES WHERE ROOF PITCH $\leq 10^\circ$	2. LOW, MEDIUM & HIGH WIND ZONES WHERE ROOF PITCH $\leq 10^\circ$
Y AT LEAST TWO CRESTS	Y AT LEAST TWO CRESTS	Y AT LEAST TWO CRESTS
Z MIN. 50mm	Z MIN. 70mm	Z MIN. 90mm

AS PER MRM CODE OF PRACTICE	
CATEGORY A	CATEGORY B
1. NORMAL EXPOSURE	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa.
2. ROOF PITCH $>10^\circ$	2. ROOF PITCH $<10^\circ$
Y ONE RIB (TRAPEZOIDAL & TRAY)	Y ONE RIB, TWO RIBS ( $<20\text{mm}$ ) (TRAPEZOIDAL & TRAY)
2 CORRUGATIONS	3 CORRUGATIONS
Z MIN. 50mm (VERTICALLY DOWN FACE - SMOOTH)	Z MIN. 75mm (VERTICALLY DOWN FACE - SMOOTH)
MIN. 75mm (VERTICALLY DOWN FACE - PROFILED)	MIN. 100mm (VERTICALLY DOWN FACE - PROFILED)

## BARGE WITH PROFILED CLADDING

Metdek 500

Rev. 1.0

COMMERCIAL ROOFING

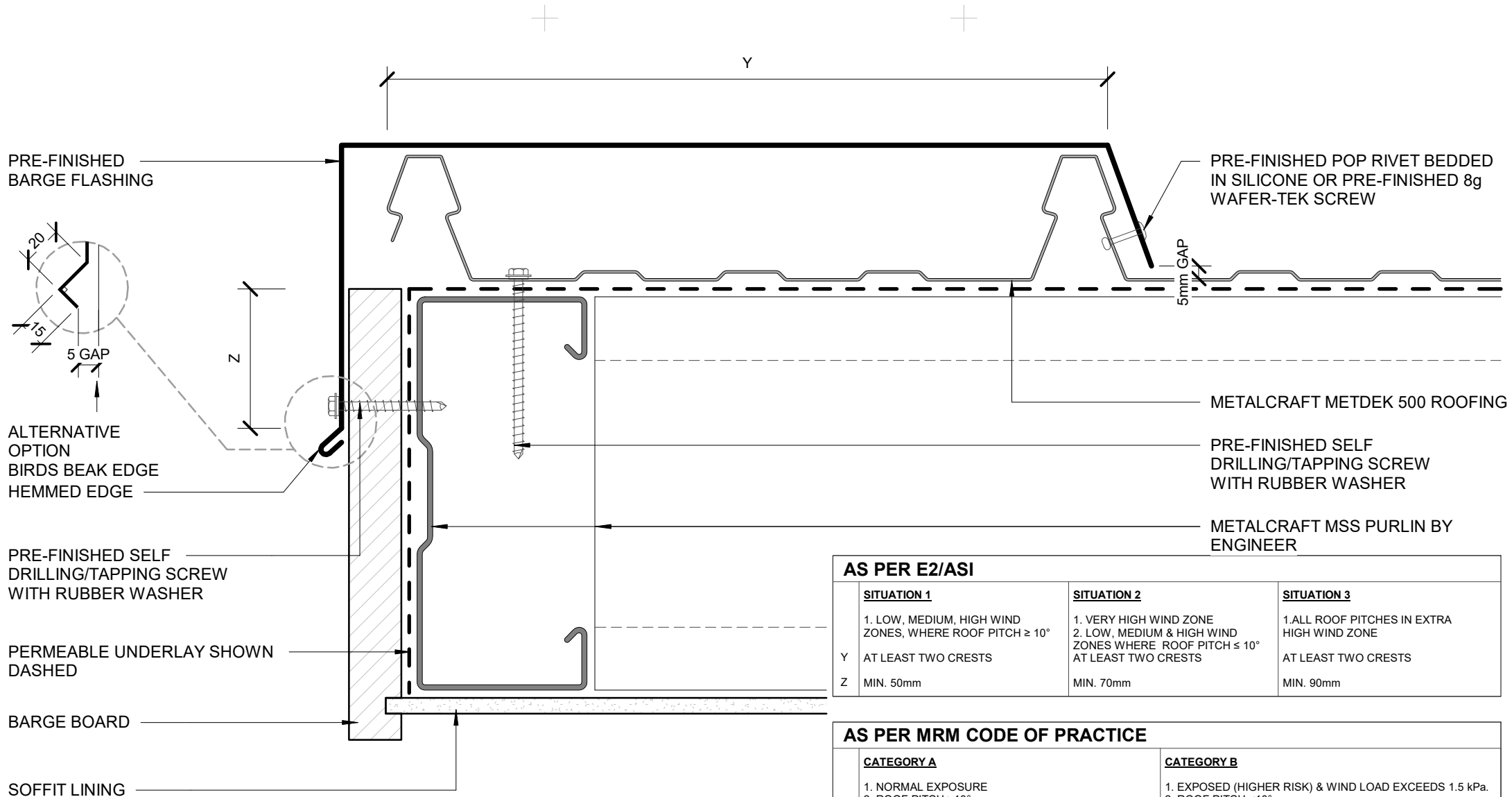
Reference CRMD500

Date JAN 2023

Scale 1 : 2

Sheet

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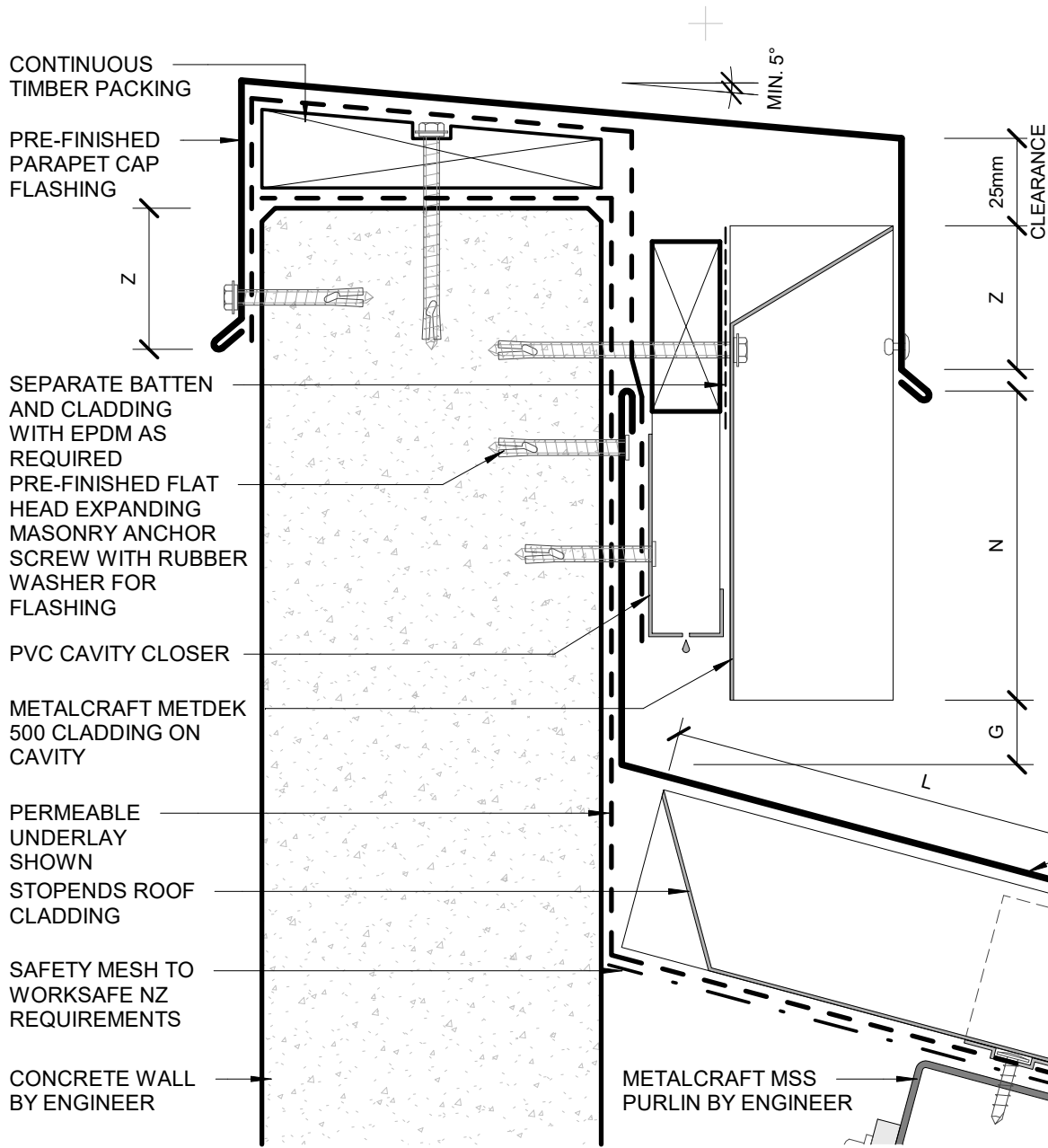


AS PER E2/ASI		
SITUATION 1	SITUATION 2	SITUATION 3
1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH $\geq 10^\circ$	1. VERY HIGH WIND ZONE	1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE
Y AT LEAST TWO CRESTS	2. LOW, MEDIUM & HIGH WIND ZONES WHERE ROOF PITCH $\leq 10^\circ$	AT LEAST TWO CRESTS
Z MIN. 50mm	AT LEAST TWO CRESTS	MIN. 90mm
	MIN. 70mm	

AS PER MRM CODE OF PRACTICE	
CATEGORY A	CATEGORY B
1. NORMAL EXPOSURE	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa.
2. ROOF PITCH $>10^\circ$	2. ROOF PITCH $<10^\circ$
Y ONE RIB (TRAPEZOIDAL & TRAY)	ONE RIB, TWO RIBS ( $<20\text{mm}$ ) (TRAPEZOIDAL & TRAY)
2 CORRUGATIONS	3 CORRUGATIONS
Z MIN. 50mm (VERTICALLY DOWN FACE - SMOOTH)	MIN. 75mm (VERTICALLY DOWN FACE - SMOOTH)
MIN. 75mm (VERTICALLY DOWN FACE - PROFILED)	MIN. 100mm (VERTICALLY DOWN FACE - PROFILED)

\*IF VENTILATION IS REQUIRED





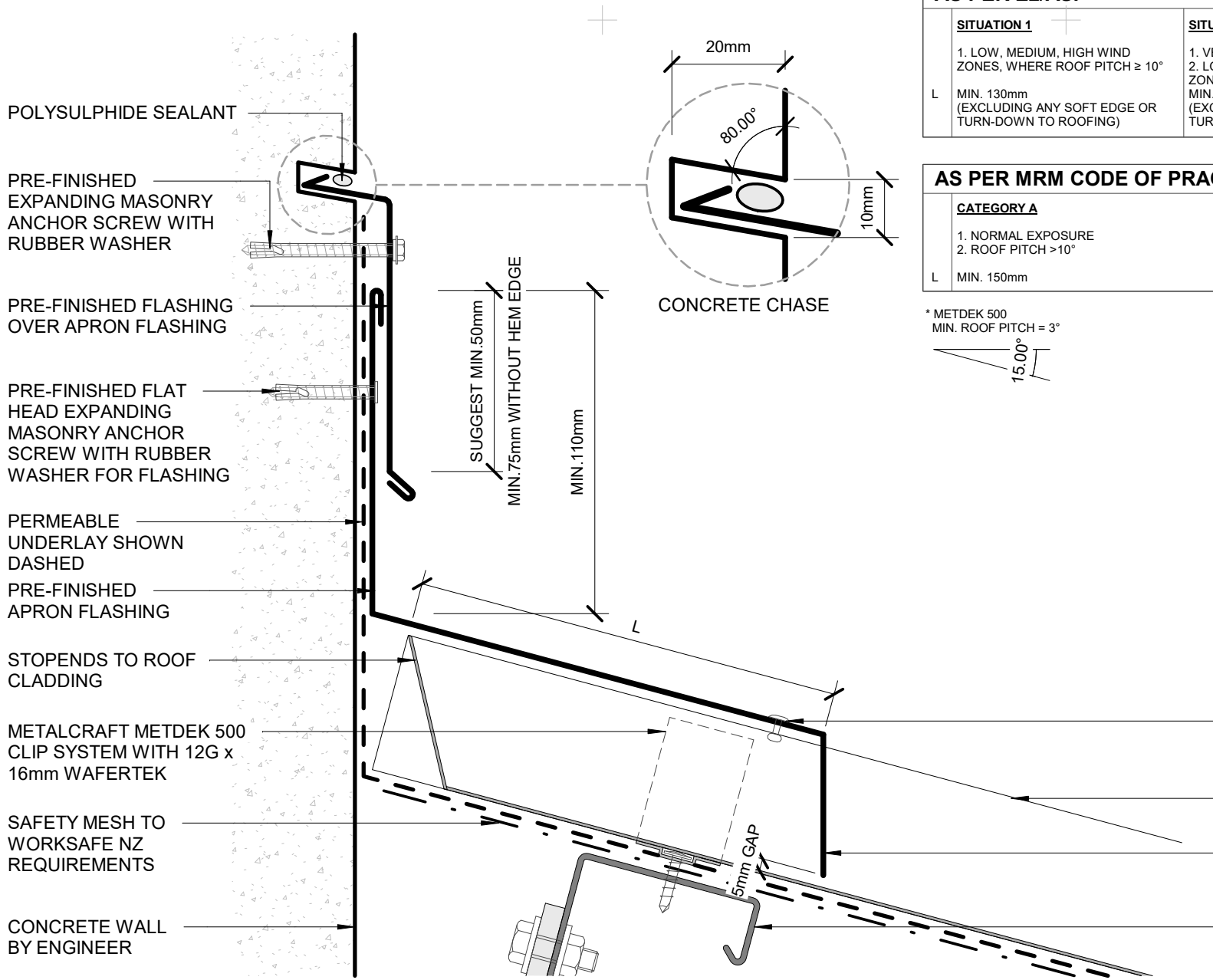
AS PER E2/AS1		
SITUATION 1	SITUATION 2	SITUATION 3
1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH $\geq 10^\circ$	1. VERY HIGH WIND ZONE 2. LOW, MEDIUM AND HIGH WIND ZONES WHERE ROOF PITCHES $\leq 10^\circ$	1. ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE
G MIN. 35mm	MIN. 35mm	MIN. 35mm
N MIN. 75mm	MIN. 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
1. NORMAL EXPOSURE 2. ROOF PITCH $>10^\circ$	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH $<10^\circ$
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)
L MIN. 150mm	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)

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PARAPET WITH TRANSVERSE APRON  
COMMERCIAL ROOFING



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 PITCH $\leq 10^\circ$	1. ALL ROOF PITCHES EXTRA HIGH WIND ZONE
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
1. NORMAL EXPOSURE 2. ROOF PITCH $>10^\circ$	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH $<10^\circ$
L MIN. 150mm	MIN. 200mm

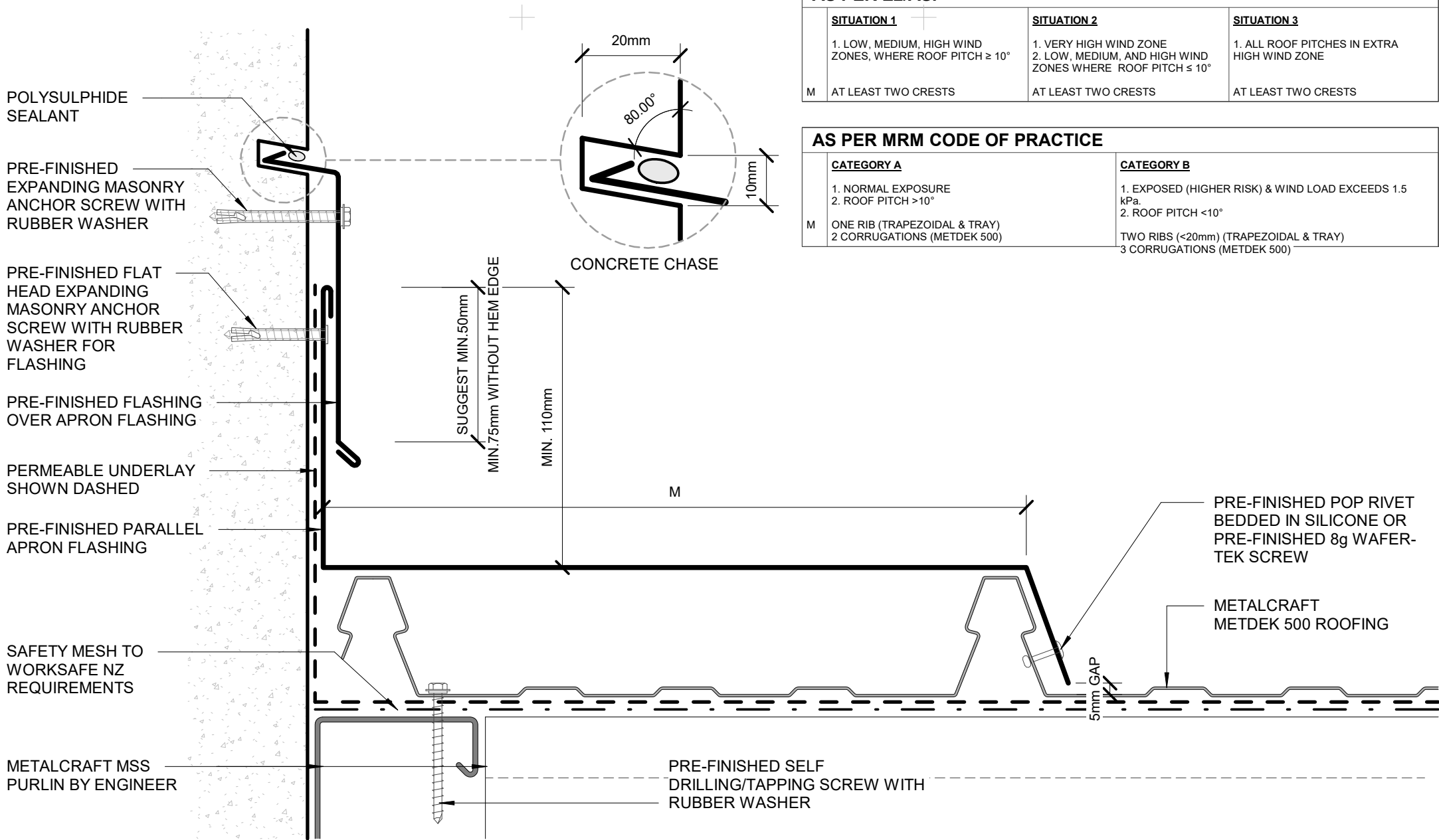
\* METDEK 500  
MIN. ROOF PITCH =  $3^\circ$

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- PRE-FINISHED POP RIVET BEDDED IN SILICONE OR PRE-FINISHED 8g WAFER-TEK SCREW
- METALCRAFT METDEK 500 ROOFING
- NOTCHED EDGE DRESSED OVER METDEK 500 RIBS
- METALCRAFT MSS PURLIN BY ENGINEER

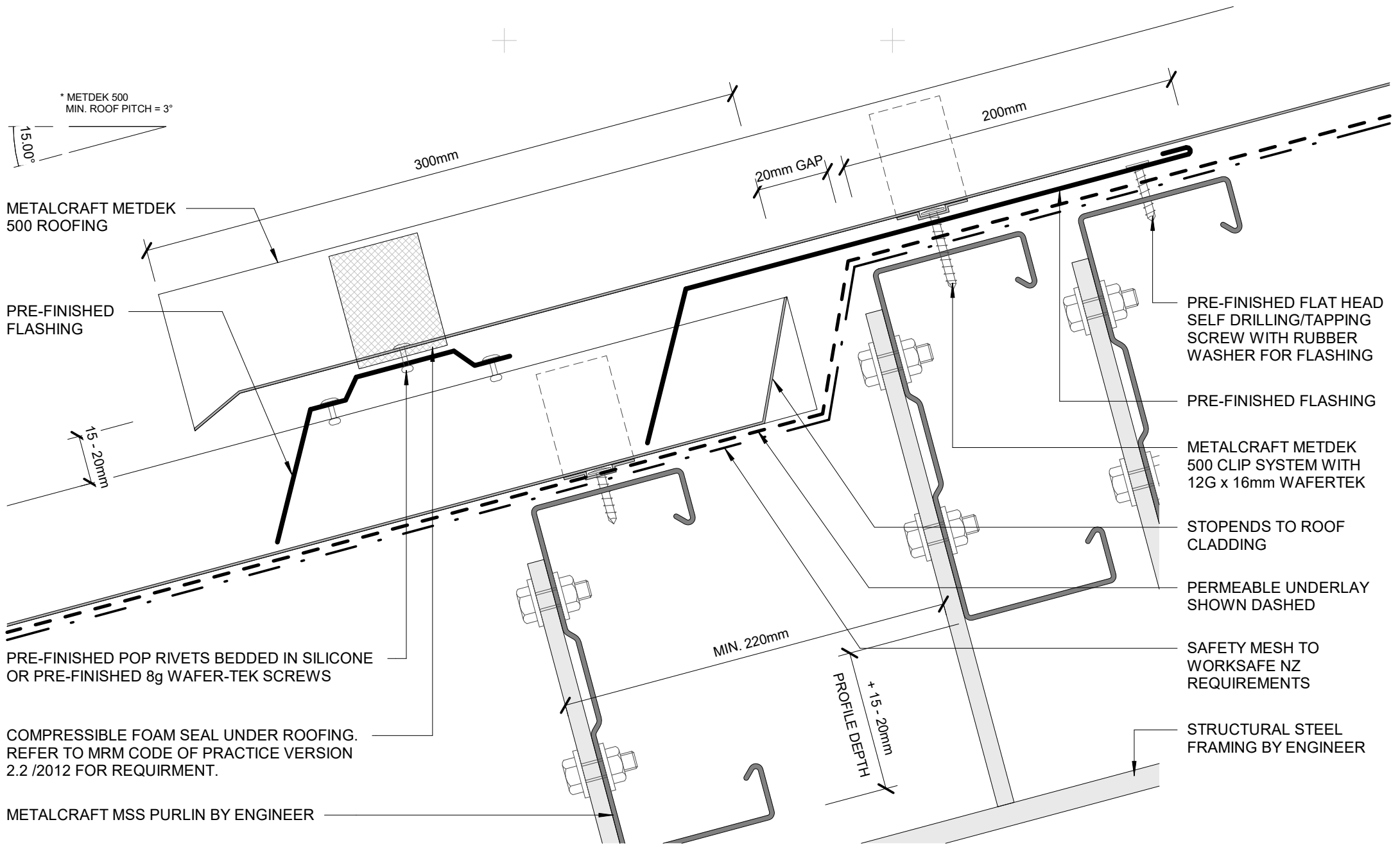


AS PER E2/AS1		
SITUATION 1	SITUATION 2	SITUATION 3
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M AT LEAST TWO CRESTS	AT LEAST TWO CRESTS	AT LEAST TWO CRESTS

AS PER MRM CODE OF PRACTICE	
CATEGORY A	CATEGORY B
1. NORMAL EXPOSURE 2. ROOF PITCH $>10^\circ$	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH $<10^\circ$
M ONE RIB (TRAPEZOIDAL & TRAY) 2 CORRUGATIONS (METDEK 500)	TWO RIBS ( $<20\text{mm}$ ) (TRAPEZOIDAL & TRAY) 3 CORRUGATIONS (METDEK 500)

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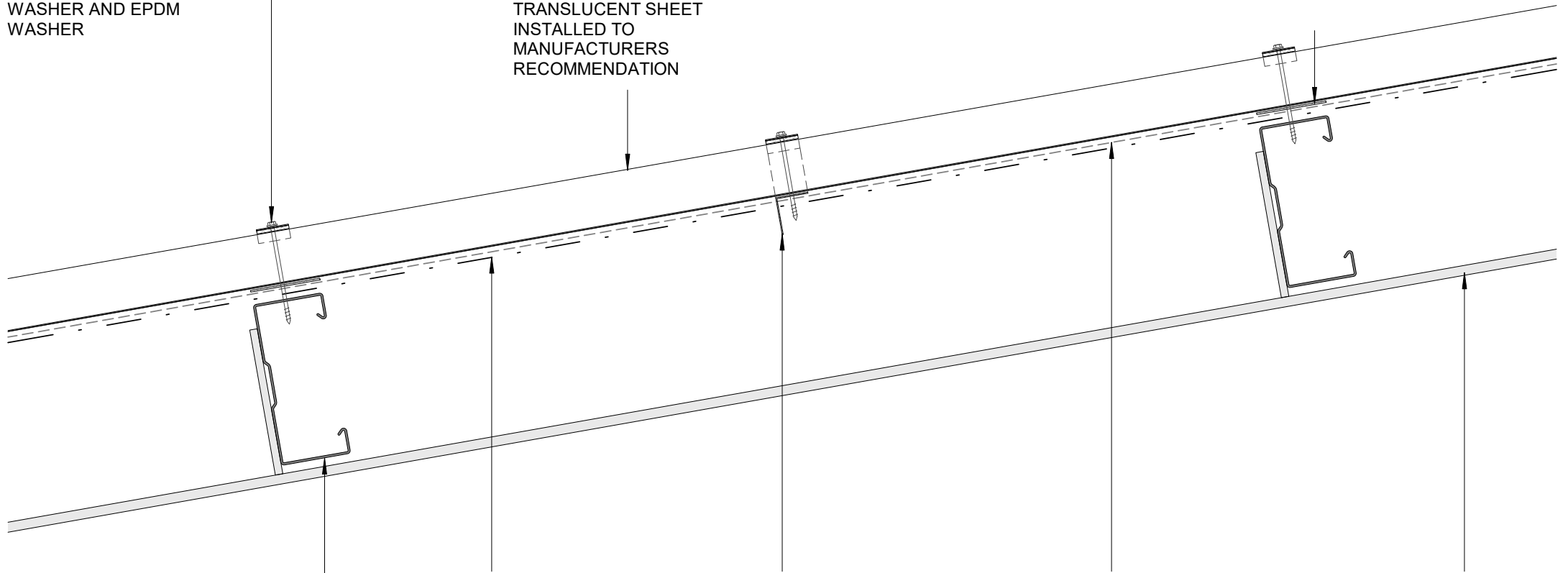
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FIXING WITH PROFILED WASHER AND EPDM WASHER

METALCRAFT METDEK 500 TRANSLUCENT SHEET INSTALLED TO MANUFACTURERS RECOMMENDATION

PURLIN PROTECTION



METALCRAFT MSS PURLIN BY ENGINEER

SAFETY MESH TO WORKSAFE NZ REQUIREMENTS

MID SPAN SUPPORT

PURLIN TAPE BARRIER STRIP

STRUCTURAL STEEL FRAMING BY ENGINEER

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## TRANSLUCENT SHEETS - LONG SECTION

Metdek 500

Rev. 1.0

COMMERCIAL ROOFING

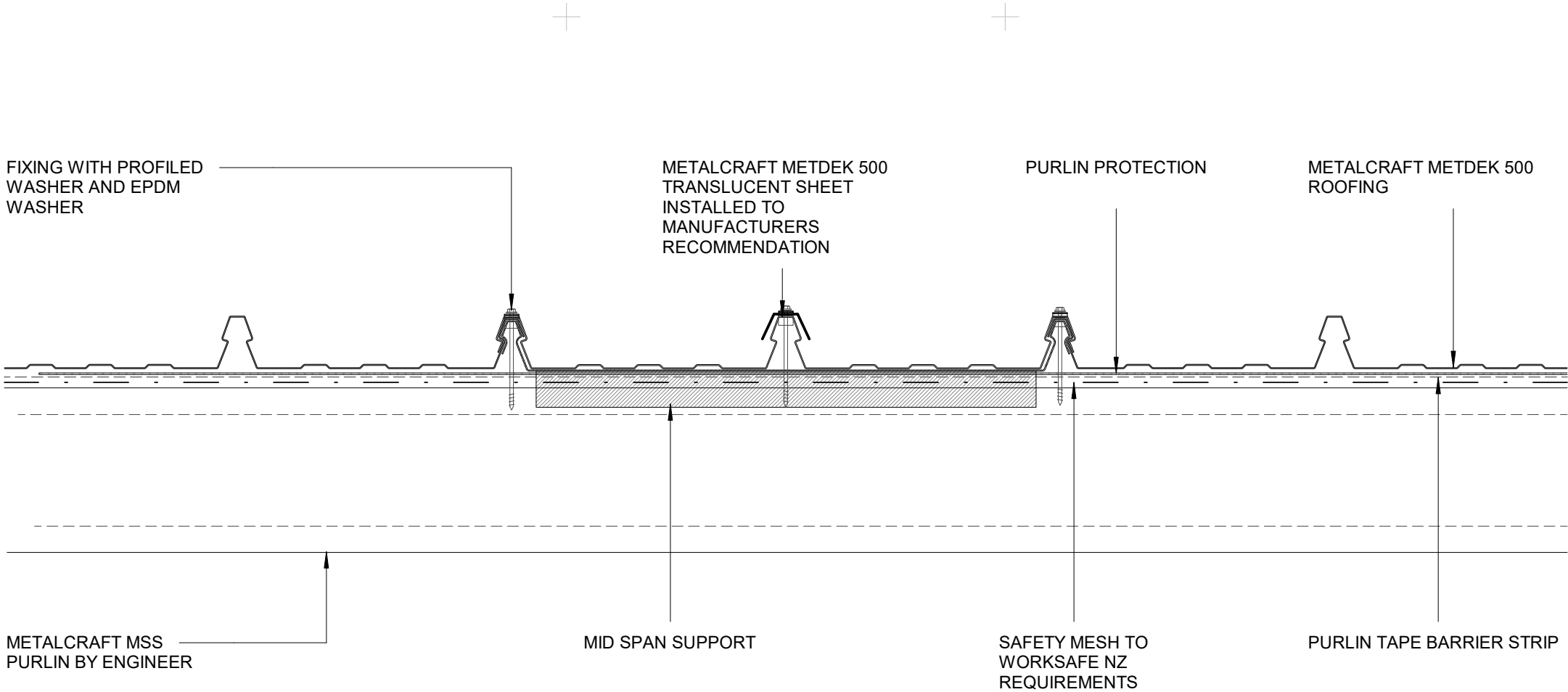
Reference CRMD500

Date JAN 2023

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- BUILDING PAPER IS THE COMMON GENERIC NAME FOR PERMEABLE ROOF AND WALL UNDERLAYS. PLEASE REFER TO NZBC E2/AS1 AND MRM CODE OF PRACTICE VERSION 3.0 /2022.

\* - PLEASE REFER TO MRM CODE OF PRACTICE VERSION 3.0 /2022 AS MINIMUM PITCH WILL INCREASE DEPENDING ON DEFLECTION AND RAINWATER

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.

**TRANSLUCENT SHEETS - CROSS**  
**COMMERCIAL ROOFING**

Metdek 500

Rev. 1.0

Reference CRMD500

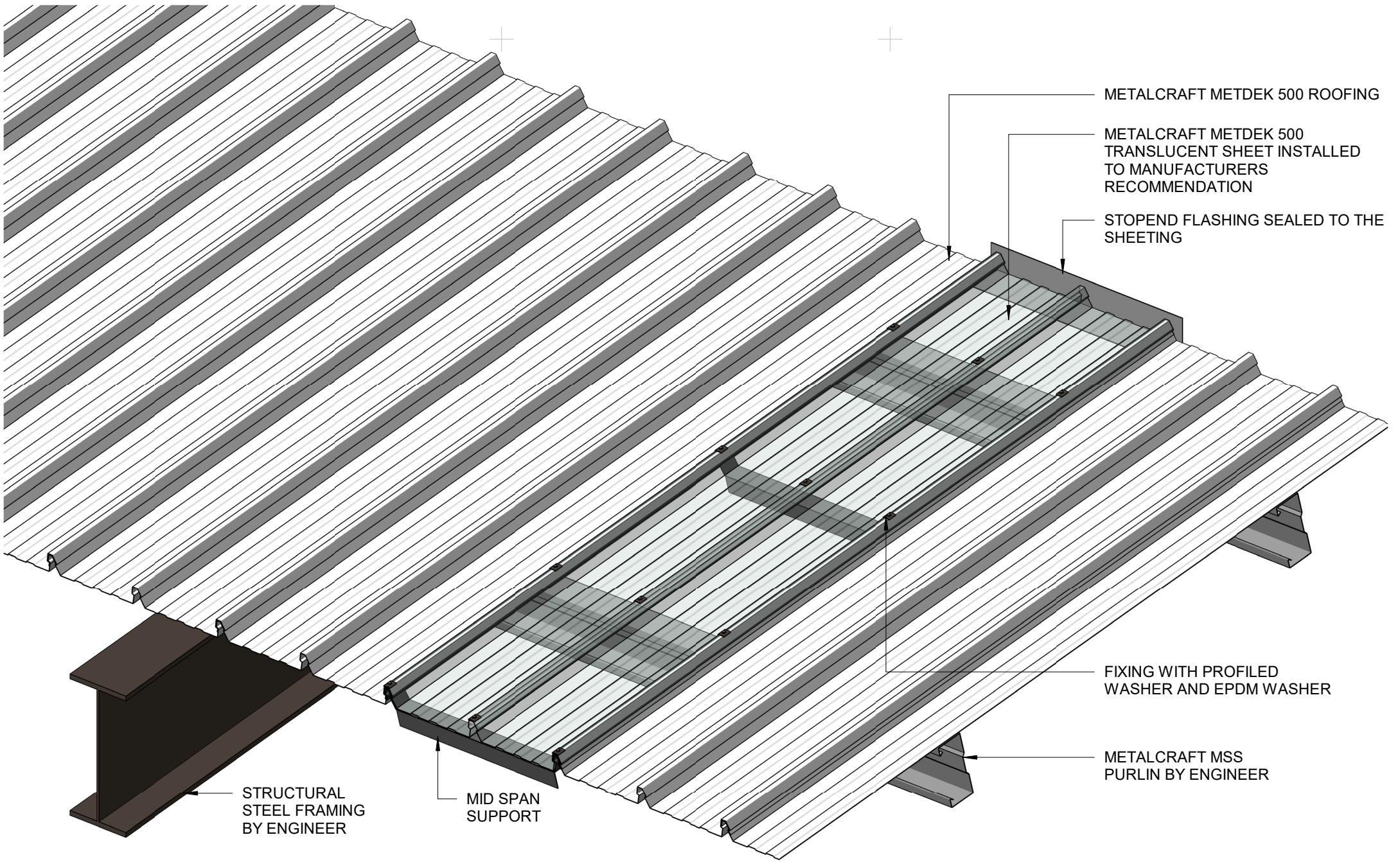
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**Metalcraft**  
 Roofing  
 www.metalcraftgroup.co.nz



METALCRAFT METDEK 500 ROOFING

METALCRAFT METDEK 500 TRANSLUCENT SHEET INSTALLED TO MANUFACTURERS RECOMMENDATION

STOPEND FLASHING SEALED TO THE SHEETING

FIXING WITH PROFILED WASHER AND EPDM WASHER

METALCRAFT MSS PURLIN BY ENGINEER

STRUCTURAL STEEL FRAMING BY ENGINEER

MID SPAN SUPPORT

**3D TRANSLUCENT SHEETS**  
COMMERCIAL ROOFING