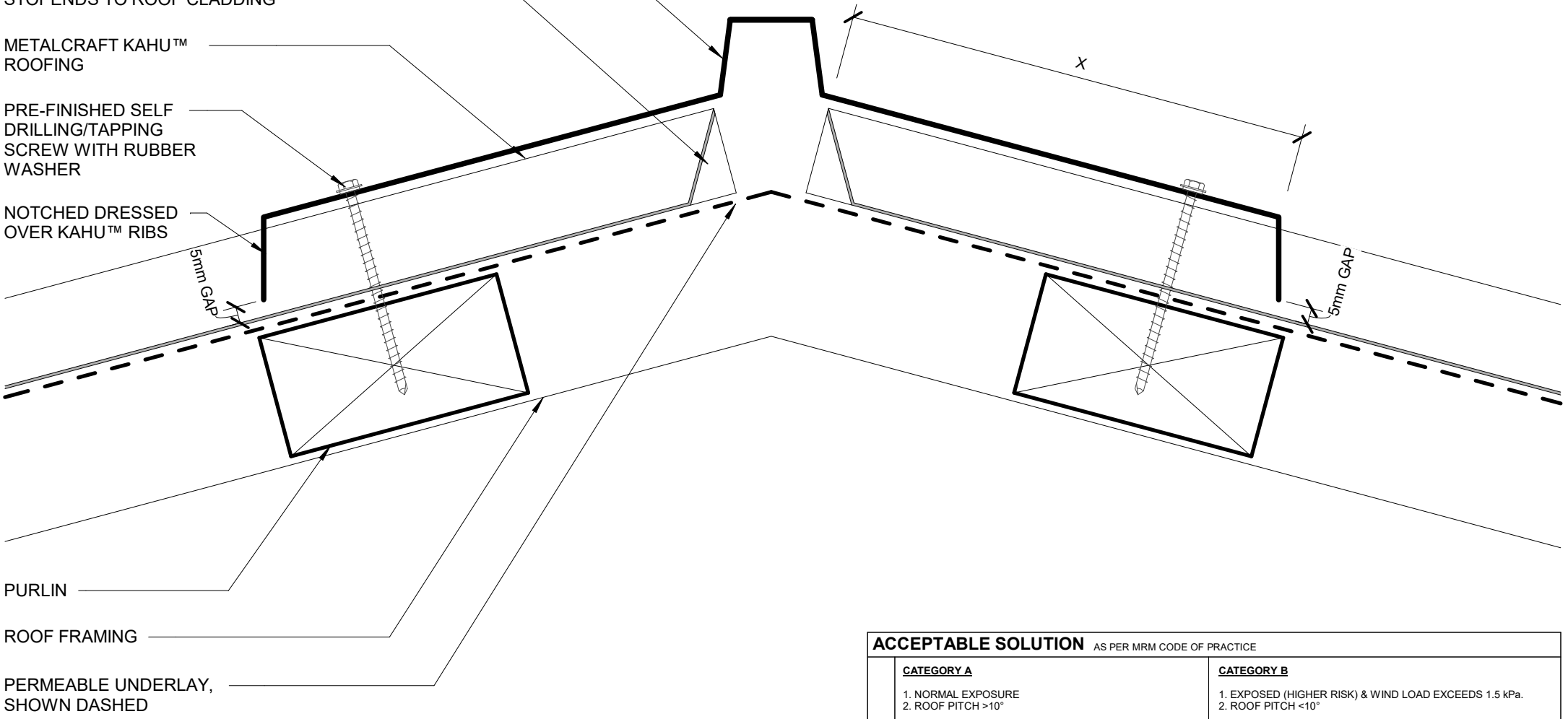
KAHU - 3 degree min pitch

RESIDENTIAL ROOFING

DETAIL LIST		Revision	Date				
A 00 / 30	COVER SHEET			A 15 / 30	FLUSH EAVE WITH EXTERNAL GUTTER BRACKET	2.0	28.02.2019
A 01 / 30	ROOF RIDGE	2.0	28.02.2019	A 16 / 30	BARGE WITH PROFILED CLADDING	2.0	28.02.2019
A 02 / 30	ROOF RIDGE (ROUND)	2.0	28.02.2019	A 17 / 30	BARGE OVERHANG	2.0	28.02.2019
A 03 / 30	SAWTOOTH RIDGE	2.0	28.02.2019	A 18 / 30	PARAPET WITH TRANSVERSE APRON	2.0	28.02.2019
A 04 / 30	SAWTOOTH EAVE	2.0	28.02.2019	A 19 / 30	TRANSVERSE APRON	2.0	28.02.2019
A 05 / 30	ROOF VALLEY	2.0	28.02.2019	A 20 / 30	PARALLEL APRON	2.0	28.02.2019
A 06 / 30	ROOF VALLEY BAFFLE	2.0	28.02.2019	A 21 / 30	PIPE PENETRATION DIRECT FIXED BOOT FLASHING	2.0	28.02.2019
A 07 / 30	INTERNAL GUTTER	2.0	28.02.2019	A 22 / 30	PIPE PENETRATION BACKTRAK BOOT FLASHING	2.0	28.02.2019
A 08 / 30	PARALLEL HIDDEN GUTTER	2.0	28.02.2019	A 23 / 30	3D RIDGE TO BARGE JUNCTION	2.0	28.02.2019
A 09 / 30	PARALLEL HIDDEN GUTTER (2 PART FLASHING)	2.0	28.02.2019	A 24 / 30	3D DUTCH GABLE	2.0	28.02.2019
A 10 / 30	ROOF - CHANGE PITCH	2.0	28.02.2019	A 25 / 30	3D APRON	2.0	28.02.2019
A 11 / 30	MANSARD	2.0	28.02.2019	A 26 / 30	3D OVER 85mm DIAMETER PIPE PENETRATION	2.0	28.02.2019
A 12 / 30	EAVE WITH METALLINE FASCIA	2.0	28.02.2019	A 27 / 30	3D CHIMNEY PENETRATION	2.0	28.02.2019
A 13 / 30	EAVE WITH SNOW STRAP	2.0	28.02.2019	A 28 / 30	3D RIDGE/BARGE FLASHINGS	2.0	28.02.2019
A 14 / 30	FLUSH EAVE WITH INTERNAL GUTTER BRACKET	2.0	28.02.2019	A 29 / 30	3D DUTCH GABLE FLASHINGS	2.0	28.02.2019

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
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)

* KAHU MIN. ROOF PITCH = 3°



ACCEPTABLE 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

Metalcraft Roofing

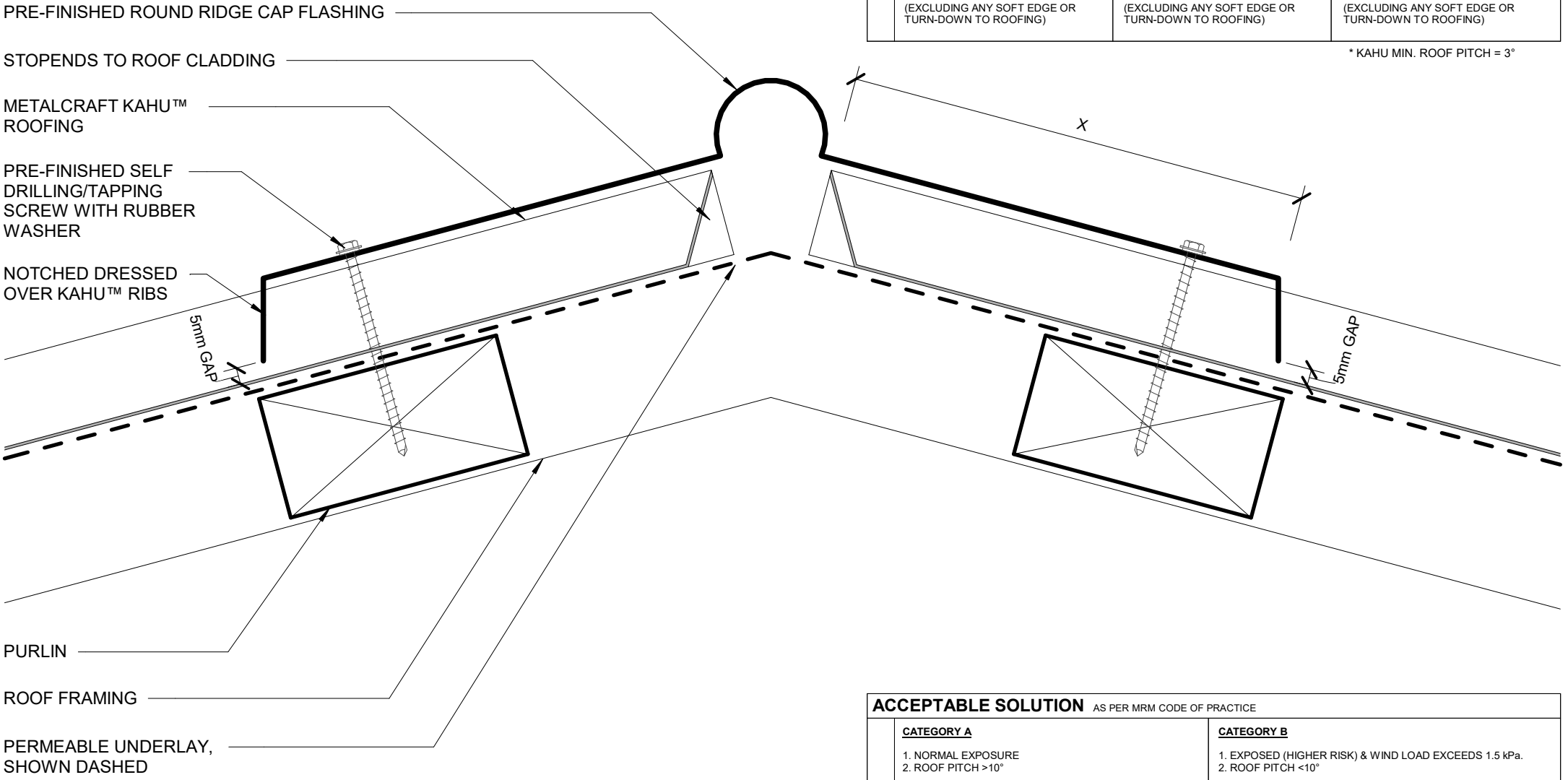
ROOF RIDGE

KAHU Rev. 2.0 RESIDENTIAL ROOFING

Reference RRKA Date 28.02.2019 Scale 1 : 2 Sheet A 01 / 30

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
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)

* KAHU MIN. ROOF PITCH = 3°



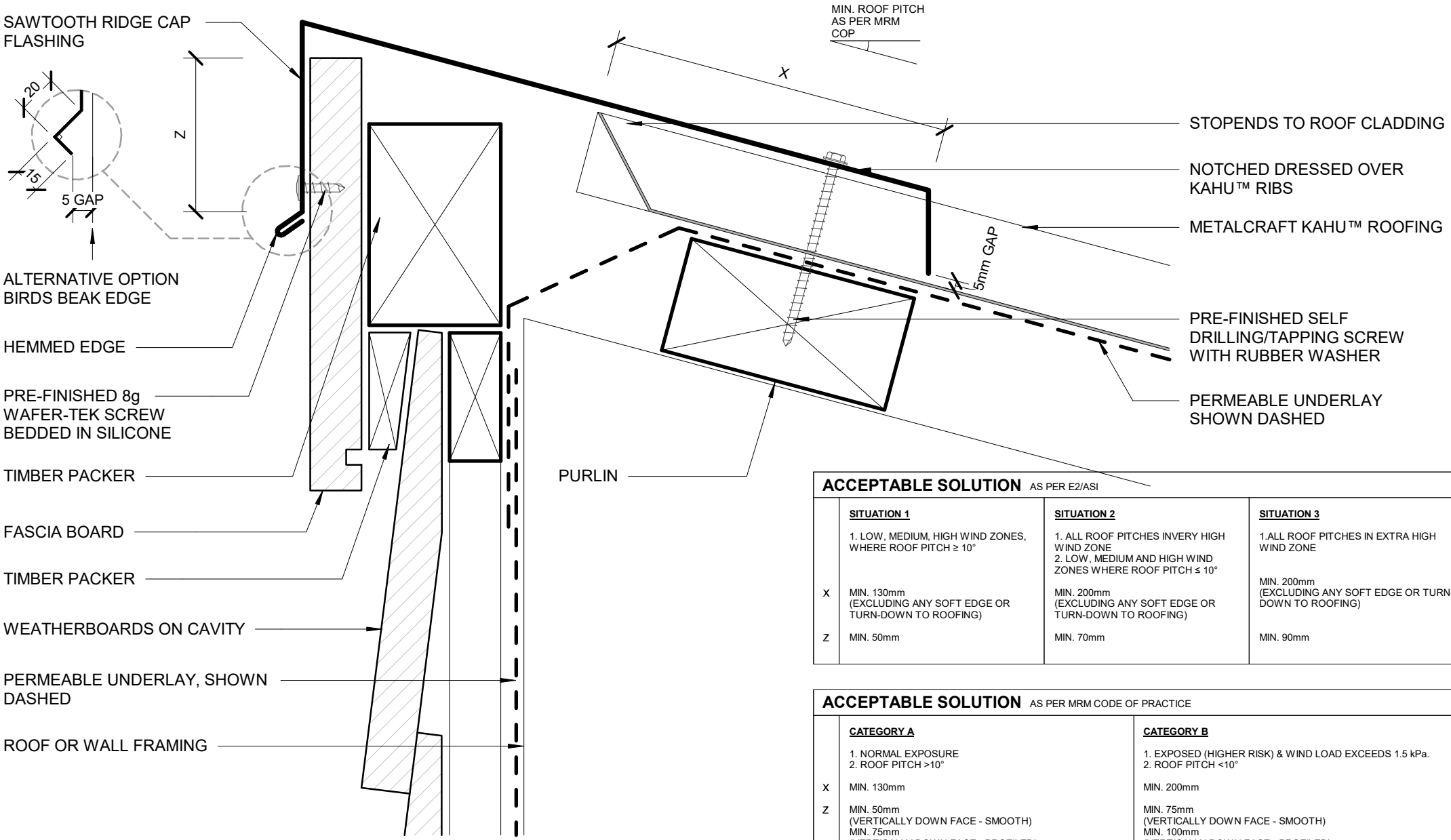
ACCEPTABLE SOLUTION AS PER MRM CODE OF PRACTICE		
	CATEGORY A	**CATEGORY B**
	1. NORMAL EXPOSURE 2. ROOF PITCH >10°	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°
X	MIN. 130mm	MIN. 200mm

Metalcraft Roofing

ROOF RIDGE (ROUND)

KAHU Rev. 2.0 RESIDENTIAL ROOFING

Reference RRKA Date 28.02.2019 Scale 1 : 2 Sheet A 02 / 30



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 INVERY 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 (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

ACCEPTABLE SOLUTION AS PER MRM CODE OF PRACTICE

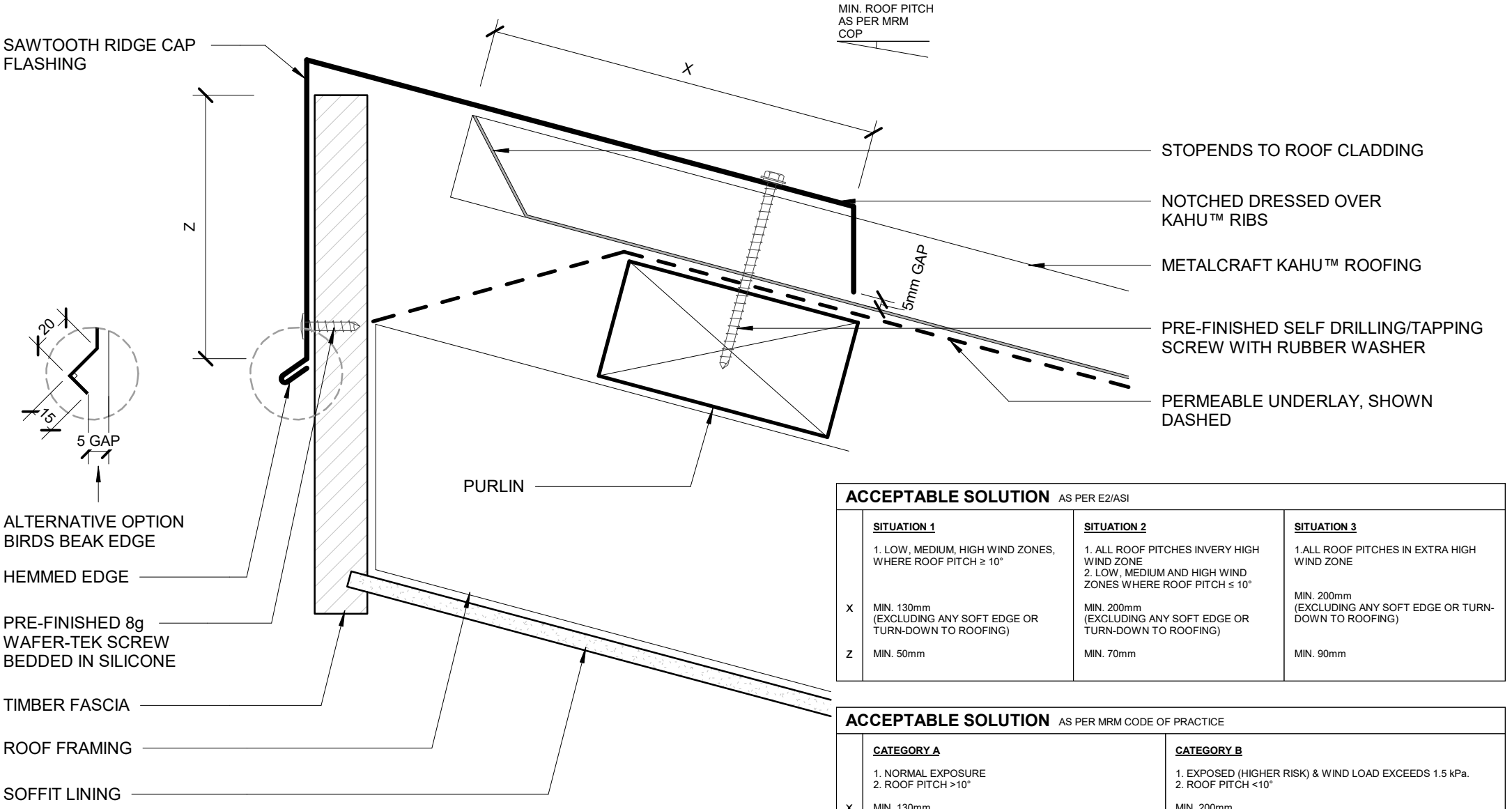
	CATEGORY A	CATEGORY B
	1. NORMAL EXPOSURE 2. ROOF PITCH >10°	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°
X	MIN. 130mm	MIN. 200mm
Z	MIN. 50mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 75mm (VERTICALLY DOWN FACE - PROFILED)	MIN. 75mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 100mm (VERTICALLY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

Metalcraft Roofing

SAWTOOTH RIDGE

KAHU Rev. 2.0 RESIDENTIAL ROOFING

Reference RRKA Date 28.02.2019 Scale 1 : 2 Sheet A 03 / 30



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 INVERY 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 (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

ACCEPTABLE SOLUTION AS PER MRM CODE OF PRACTICE

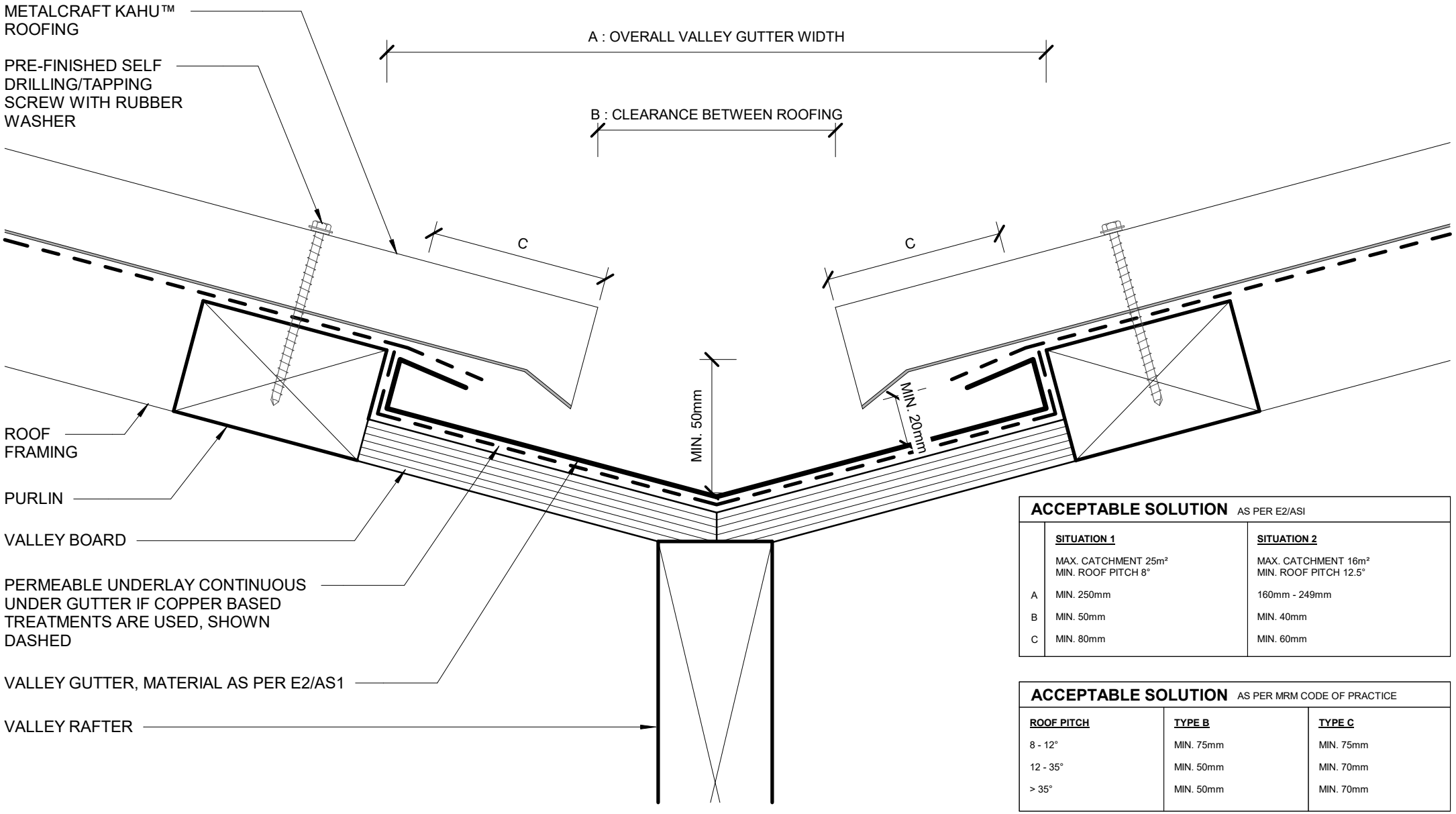
	CATEGORY A	CATEGORY B
	1. NORMAL EXPOSURE 2. ROOF PITCH >10°	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°
X	MIN. 130mm	MIN. 200mm
Z	MIN. 50mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 75mm (VERTICALLY DOWN FACE - PROFILED)	MIN. 75mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 100mm (VERTICALLY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

Metalcraft Roofing

SAWTOOTH EAVE

KAHU | Rev. 2.0 | RESIDENTIAL ROOFING

Reference RRKA | Date 28.02.2019 | Scale 1 : 2 | Sheet A 04 / 30



ACCEPTABLE SOLUTION AS PER E2/ASI

	SITUATION 1	SITUATION 2
	MAX. CATCHMENT 25m² MIN. ROOF PITCH 8°	MAX. CATCHMENT 16m² MIN. ROOF PITCH 12.5°
A	MIN. 250mm	160mm - 249mm
B	MIN. 50mm	MIN. 40mm
C	MIN. 80mm	MIN. 60mm

ACCEPTABLE SOLUTION AS PER MRM CODE OF PRACTICE

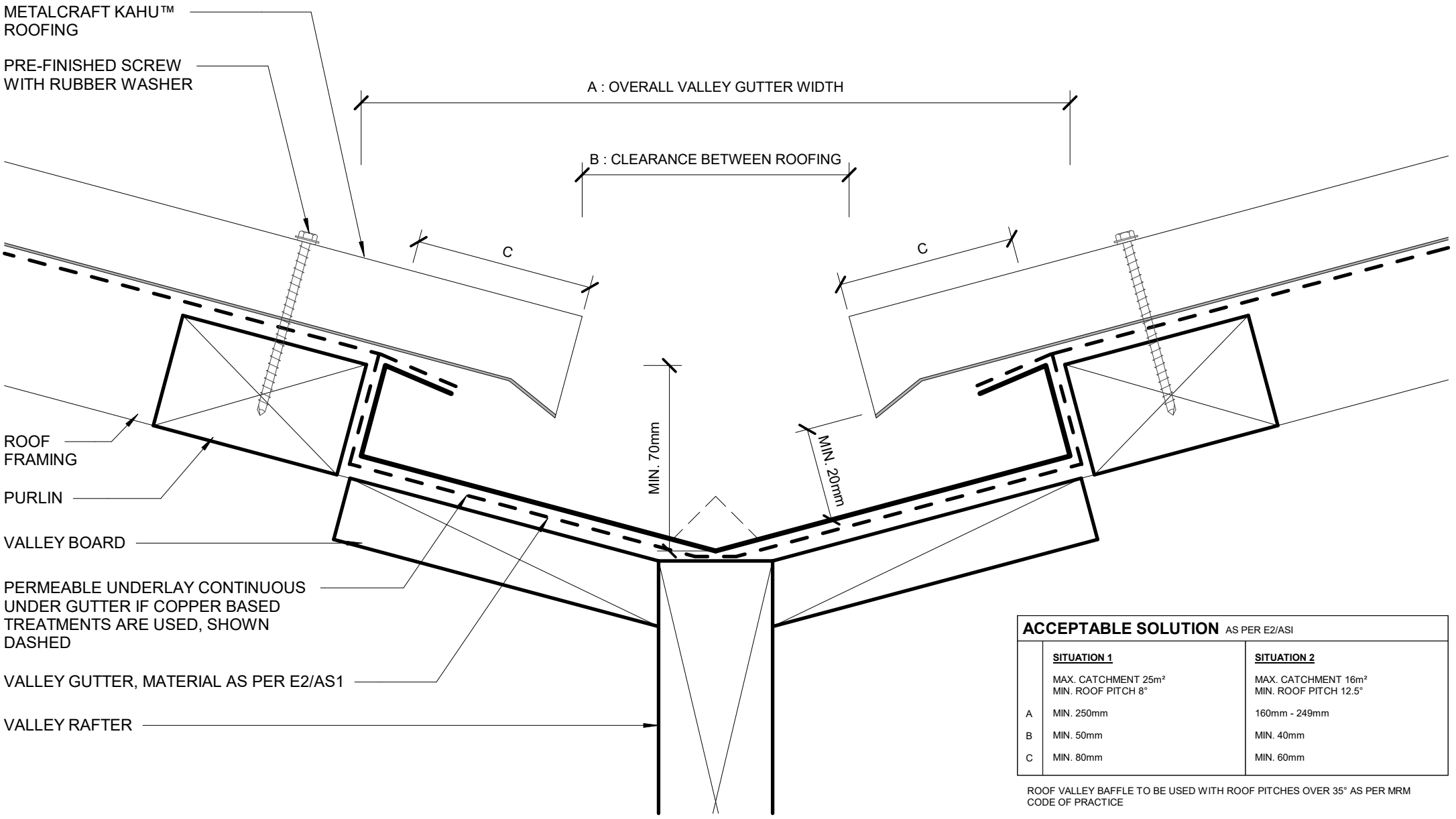
ROOF PITCH	TYPE B	TYPE C
8 - 12°	MIN. 75mm	MIN. 75mm
12 - 35°	MIN. 50mm	MIN. 70mm
> 35°	MIN. 50mm	MIN. 70mm

Metalcraft Roofing

ROOF VALLEY

KAHU Rev. 2.0 RESIDENTIAL ROOFING

Reference RRKA Date 28.02.2019 Scale 1 : 2 Sheet A 05 / 30



ACCEPTABLE SOLUTION AS PER E2/ASI

	SITUATION 1	SITUATION 2
	MAX. CATCHMENT 25m² MIN. ROOF PITCH 8°	MAX. CATCHMENT 16m² MIN. ROOF PITCH 12.5°
A	MIN. 250mm	160mm - 249mm
B	MIN. 50mm	MIN. 40mm
C	MIN. 80mm	MIN. 60mm

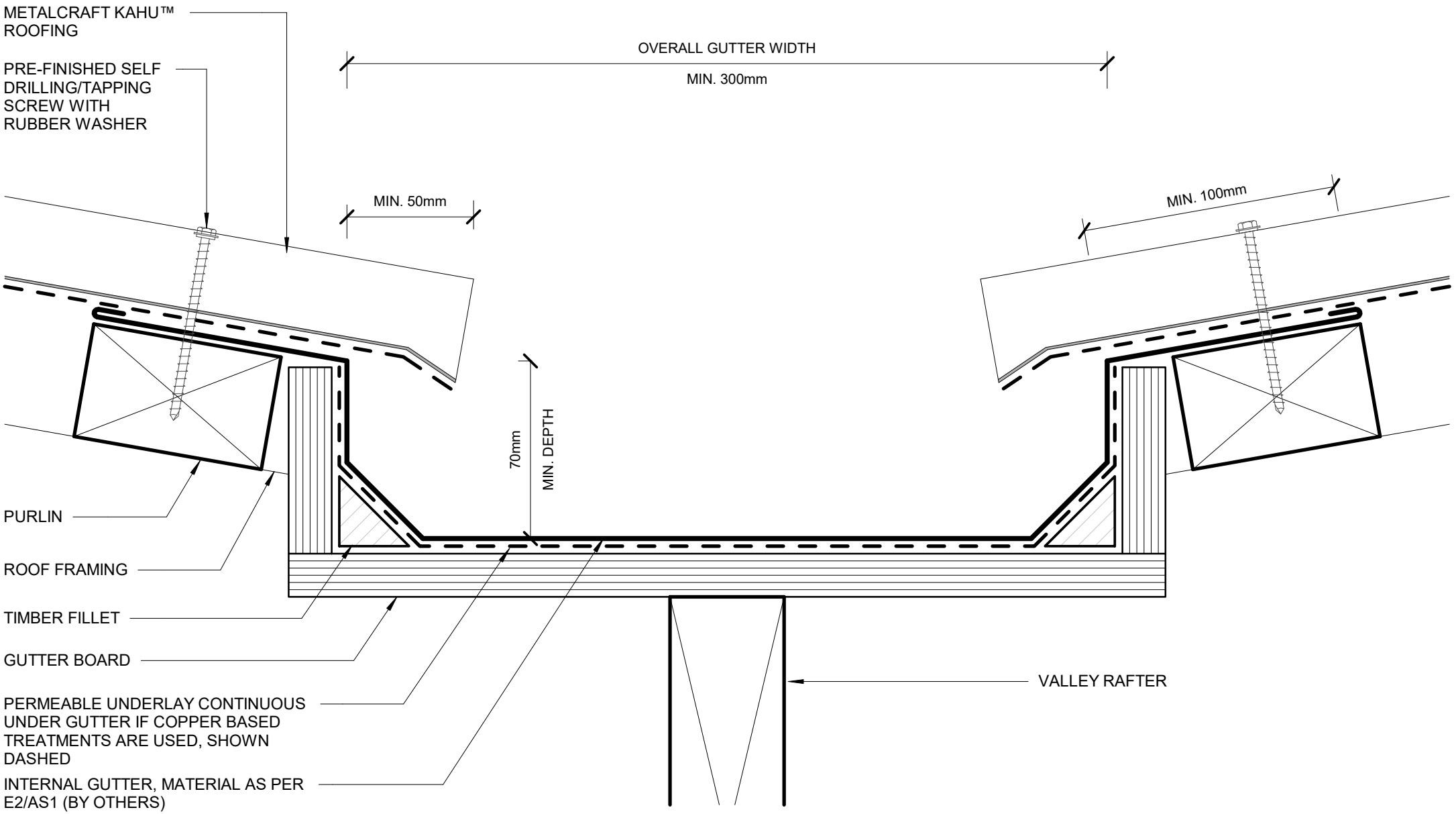
ROOF VALLEY BAFFLE TO BE USED WITH ROOF PITCHES OVER 35° AS PER MRM CODE OF PRACTICE

ROOF VALLEY BAFFLE

Metalcraft Roofing

KAHU Rev. 2.0 RESIDENTIAL ROOFING

Reference RRKA Date 28.02.2019 Scale 1 : 2 Sheet A 06 / 30

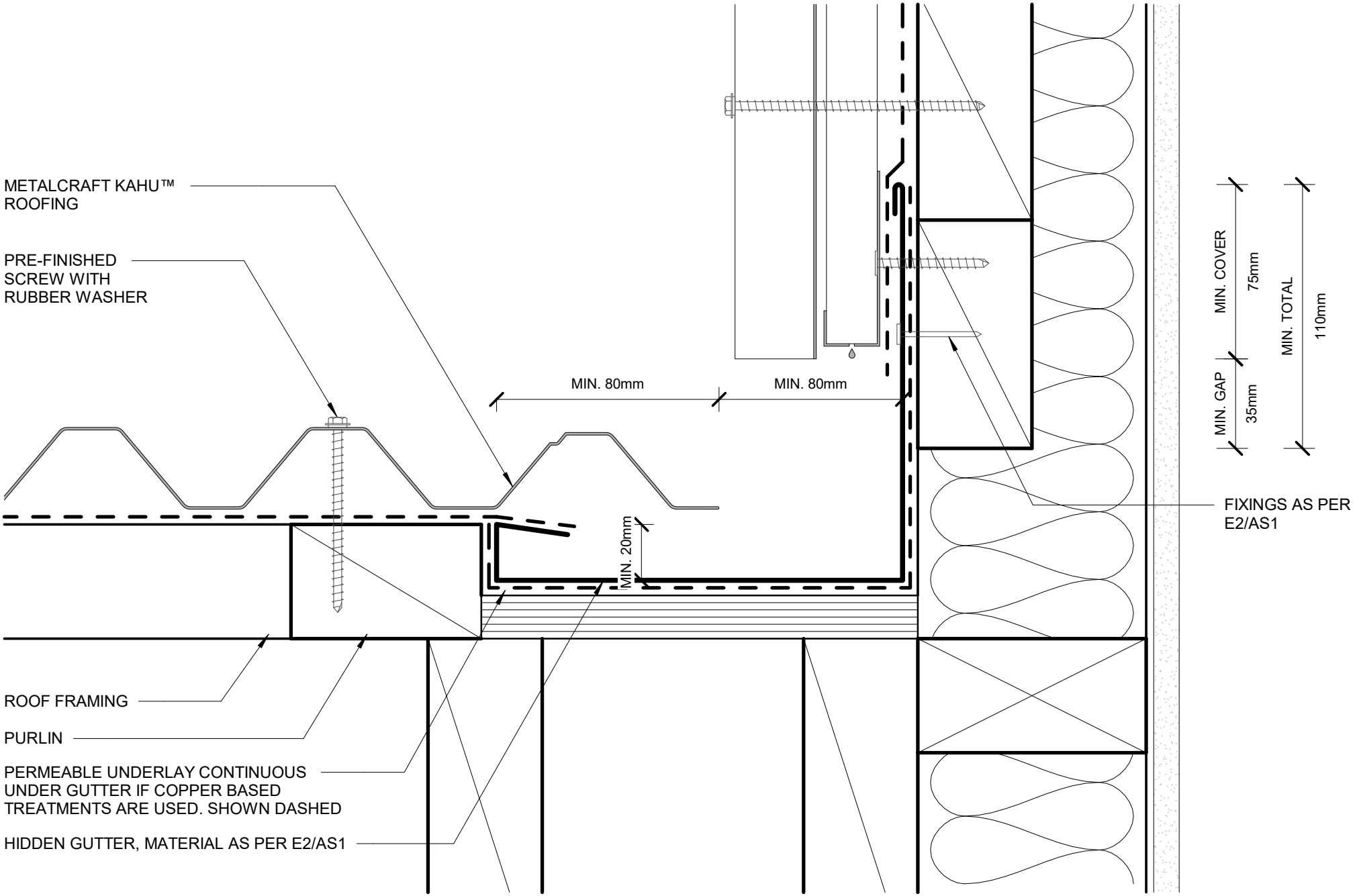


INTERNAL GUTTER

KAHU Rev. 2.0 **RESIDENTIAL ROOFING**

Reference RRKA Date 28.02.2019 Scale 1 : 2 Sheet **A 07 / 30**

Metalcraft Roofing

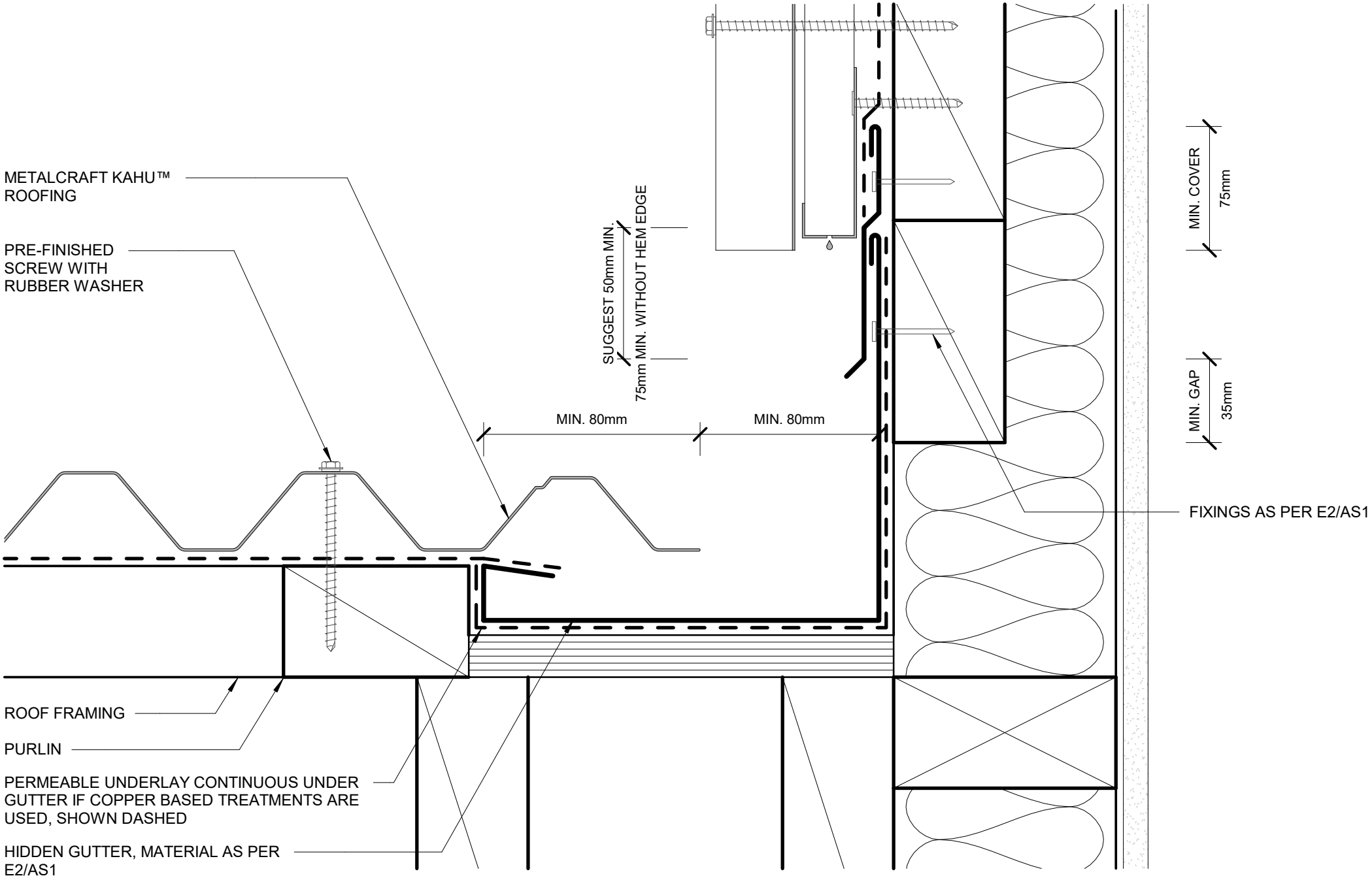


PARALLEL HIDDEN GUTTER

KAHU Rev. 2.0 **RESIDENTIAL ROOFING**

Reference RRKA Date 28.02.2019 Scale 1 : 2 Sheet **A 08 / 30**

Metalcraft Roofing

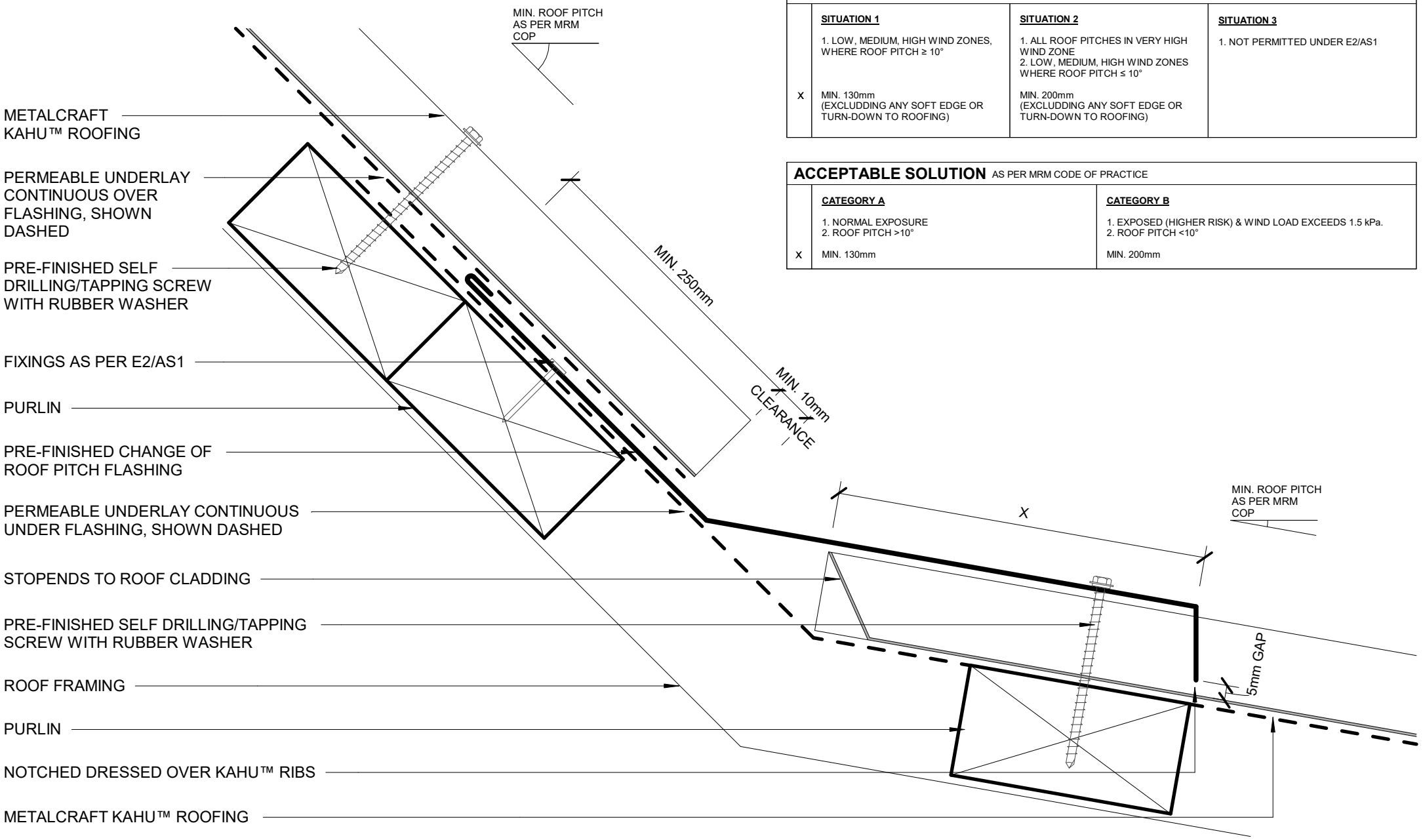


PARALLEL HIDDEN GUTTER (2 PART FLASHING)

KAHU Rev. 2.0 **RESIDENTIAL ROOFING**

Reference RRKA Date 28.02.2019 Scale 1 : 2 Sheet **A 09 / 30**

Metalcraft Roofing



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. NOT PERMITTED UNDER E2/AS1
x	MIN. 130mm (EXCLUDDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)	MIN. 200mm (EXCLUDDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)	

ACCEPTABLE SOLUTION AS PER MRM CODE OF PRACTICE

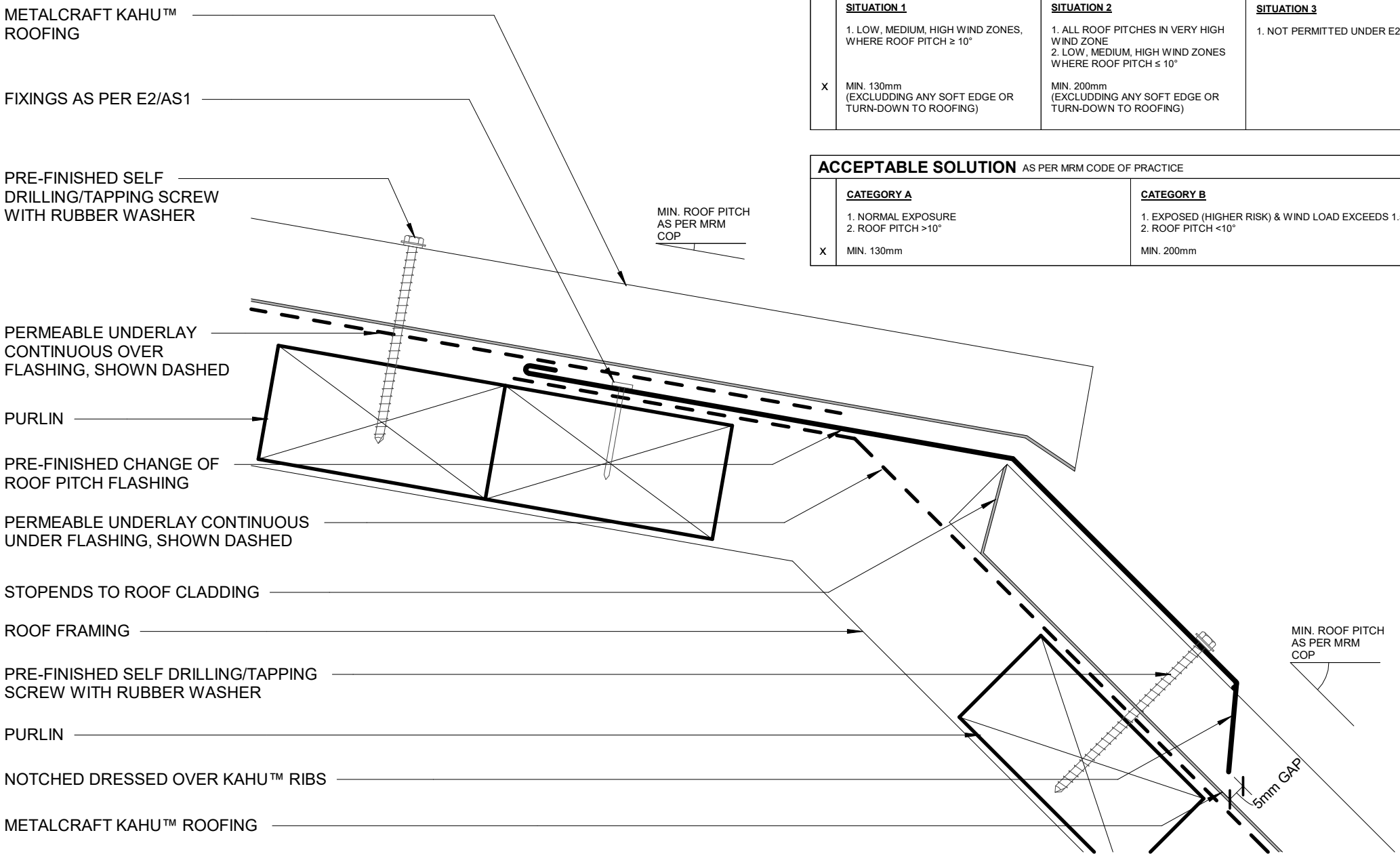
	CATEGORY A	CATEGORY B
	1. NORMAL EXPOSURE 2. ROOF PITCH >10°	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°
x	MIN. 130mm	MIN. 200mm

Metalcraft Roofing

ROOF - CHANGE PITCH

KAHU | Rev. 2.0 | RESIDENTIAL ROOFING

Reference RRKA | Date 28.02.2019 | Scale 1 : 2 | Sheet A 10 / 30



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. NOT PERMITTED UNDER E2/AS1
x	MIN. 130mm (EXCLUDDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)	MIN. 200mm (EXCLUDDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)	

ACCEPTABLE 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

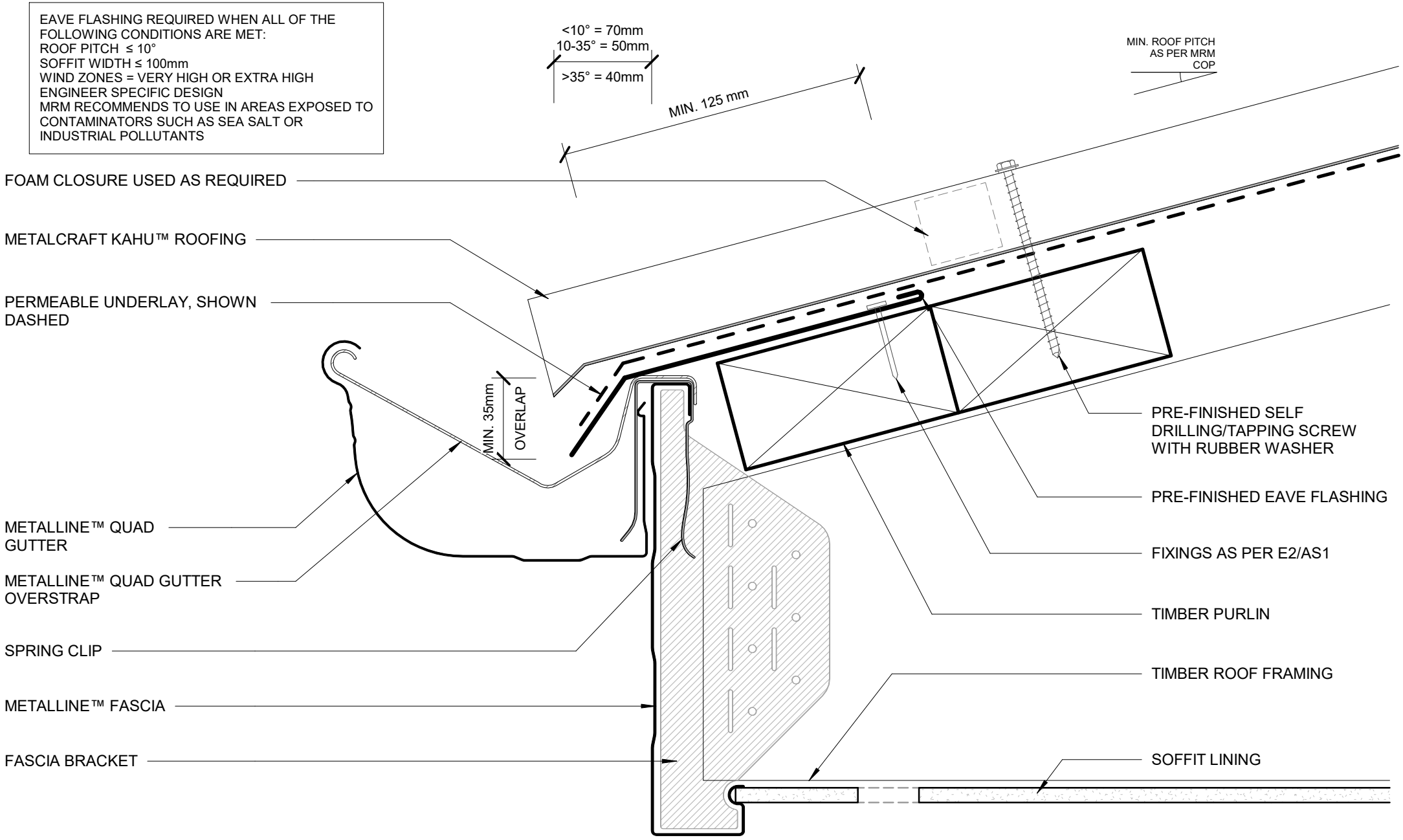
Metalcraft Roofing

MANSARD

KAHU Rev. 2.0 RESIDENTIAL ROOFING

Reference RRKA Date 28.02.2019 Scale 1 : 2 Sheet A 11 / 30

EAVE FLASHING REQUIRED WHEN ALL OF THE FOLLOWING CONDITIONS ARE MET:
ROOF PITCH ≤ 10°
SOFFIT WIDTH ≤ 100mm
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 Roofing

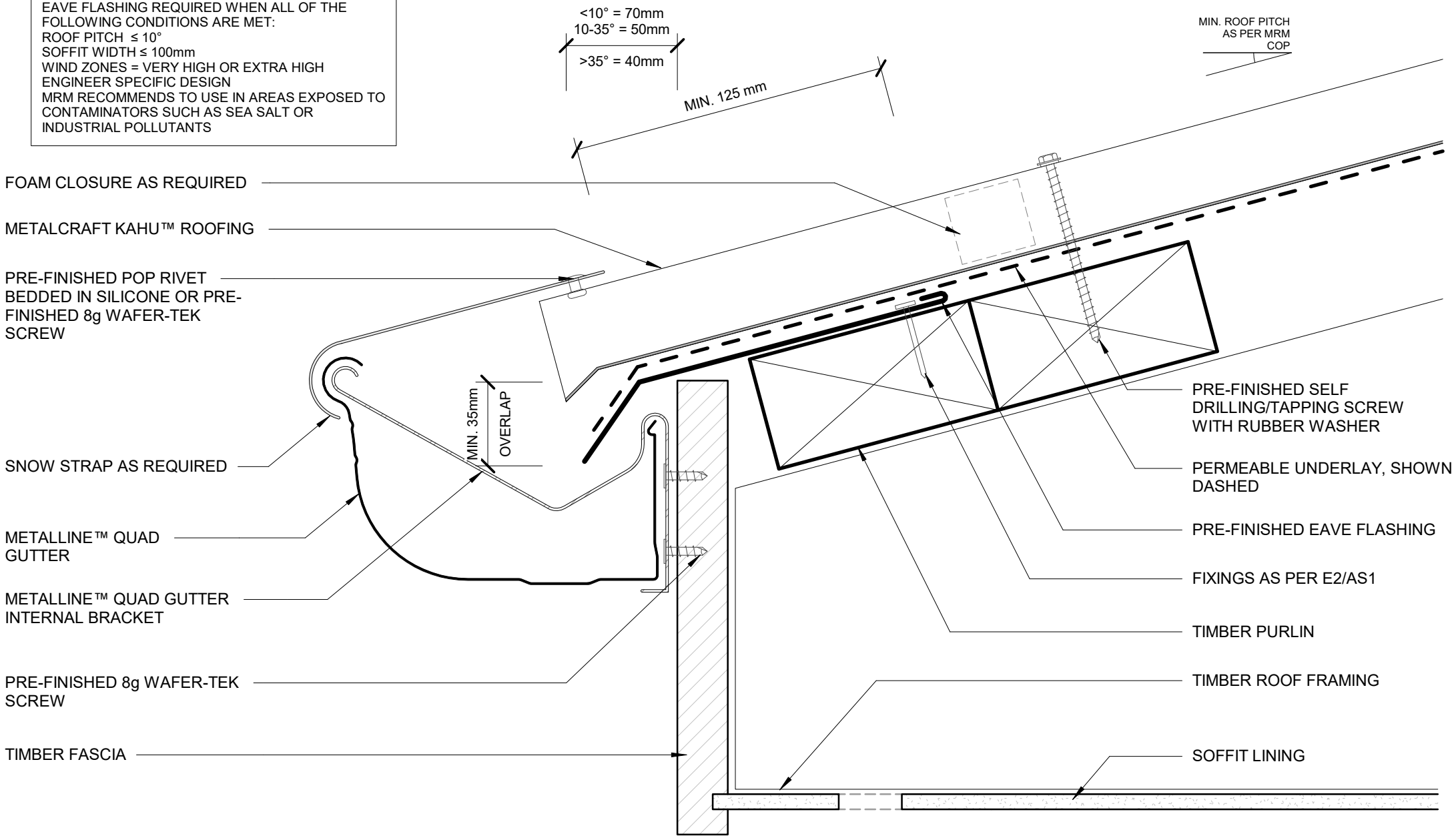
DISCLAIMER:
All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 3.0 / 2019, E2 and all other relevant building codes
Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility 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.

EAVE WITH METALLINE FASCIA

KAHU | Rev. 2.0 | RESIDENTIAL ROOFING

Reference RRKA | Date 28.02.2019 | Scale 1 : 2 | Sheet A 12 / 30

EAVE FLASHING REQUIRED WHEN ALL OF THE FOLLOWING CONDITIONS ARE MET:
ROOF PITCH ≤ 10°
SOFFIT WIDTH ≤ 100mm
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



EAVE WITH SNOW STRAP

Metalcraft Roofing

DISCLAIMER:
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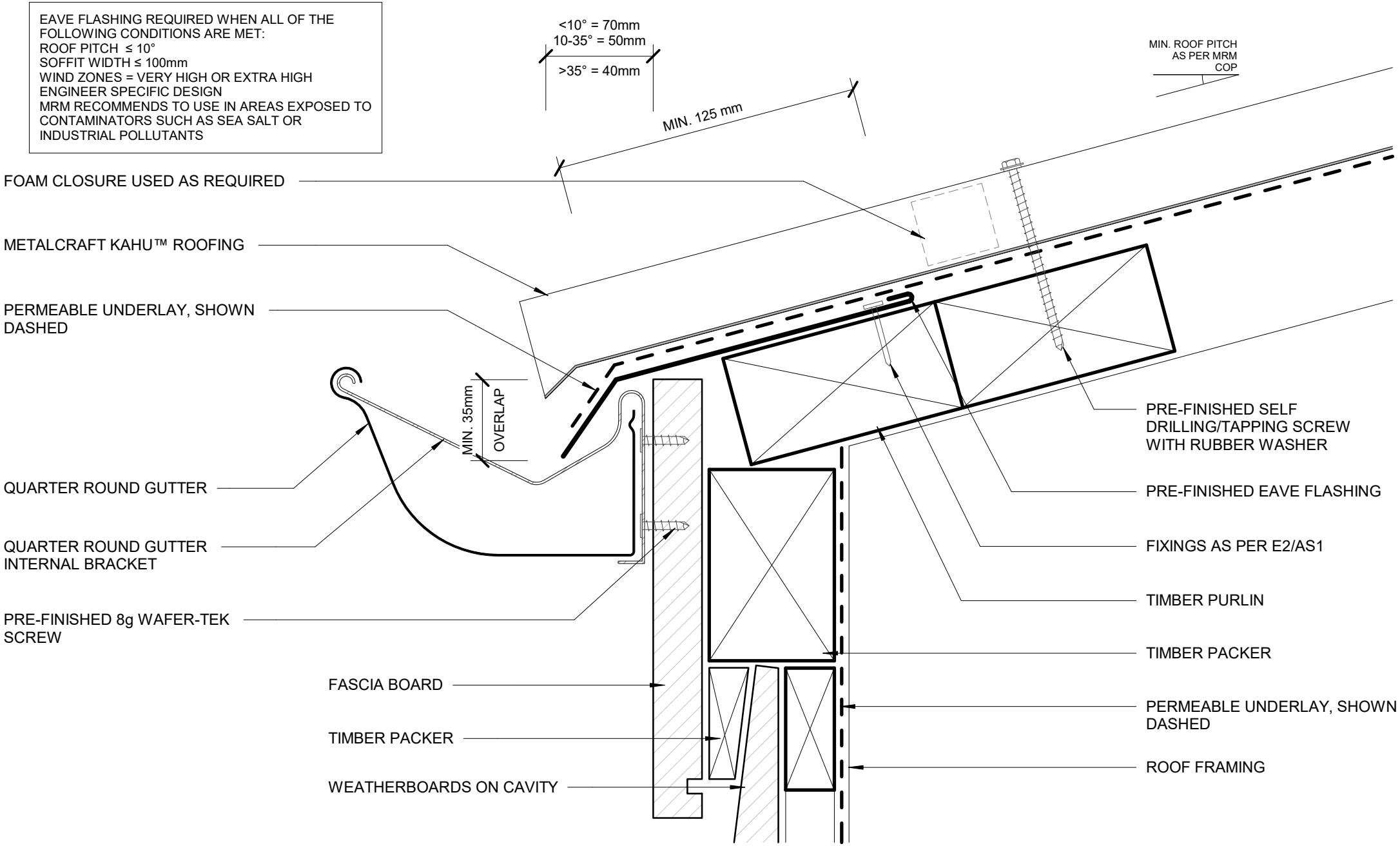
KAHU | Rev. 2.0 | RESIDENTIAL ROOFING

Reference RRKA | Date 28.02.2019 | Scale 1 : 2 | Sheet A 13 / 30

EAVE FLASHING REQUIRED WHEN ALL OF THE FOLLOWING CONDITIONS ARE MET:
ROOF PITCH ≤ 10°
SOFFIT WIDTH ≤ 100mm
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 Roofing

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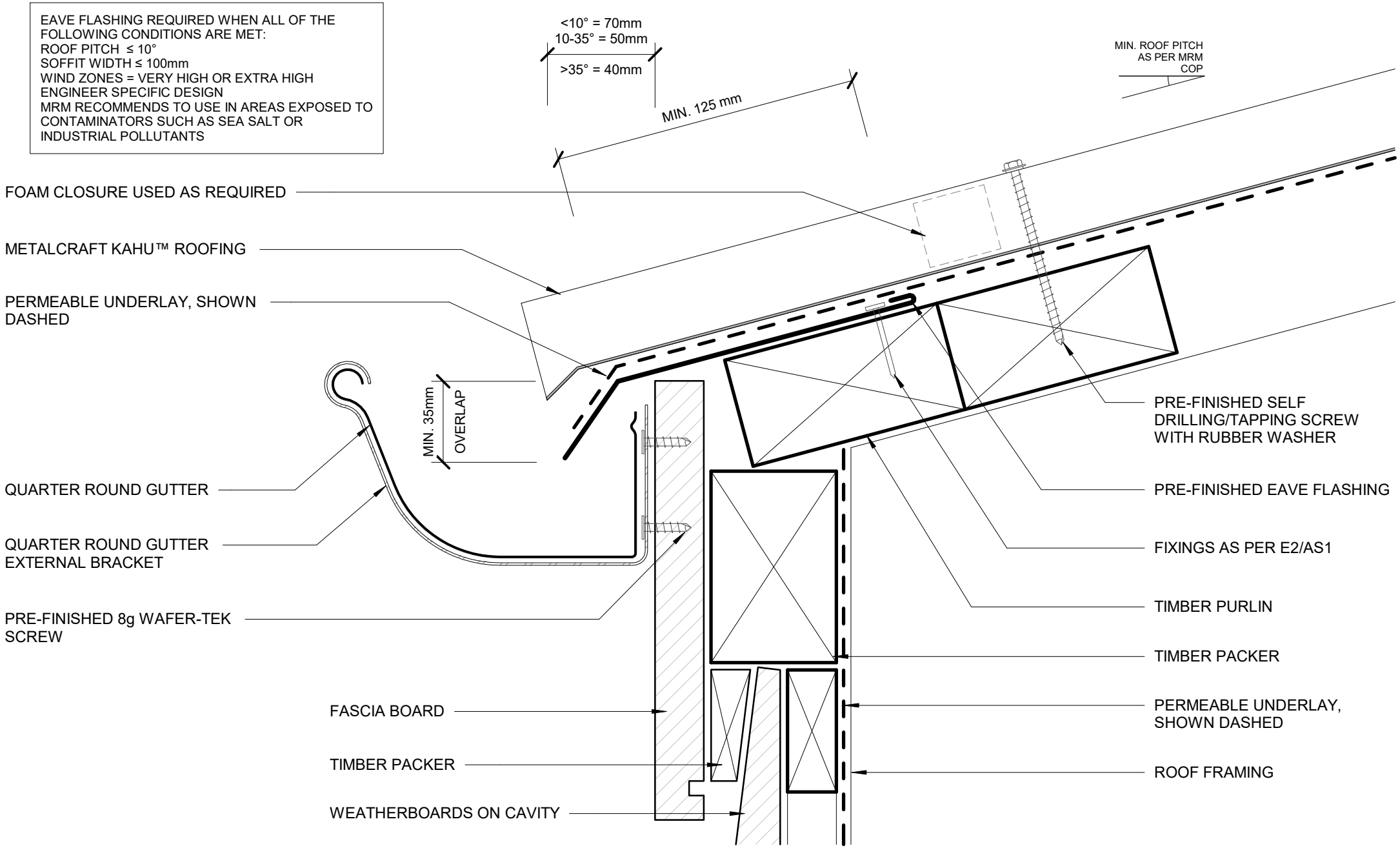
Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturers recommendations and NZBC regulations.

FLUSH EAVE WITH INTERNAL GUTTER BRACKET

KAHU | Rev. 2.0 | RESIDENTIAL ROOFING

Reference RRKA | Date 28.02.2019 | Scale 1 : 2 | Sheet A 14 / 30

EAVE FLASHING REQUIRED WHEN ALL OF THE FOLLOWING CONDITIONS ARE MET:
ROOF PITCH ≤ 10°
SOFFIT WIDTH ≤ 100mm
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 Roofing

DISCLAIMER:
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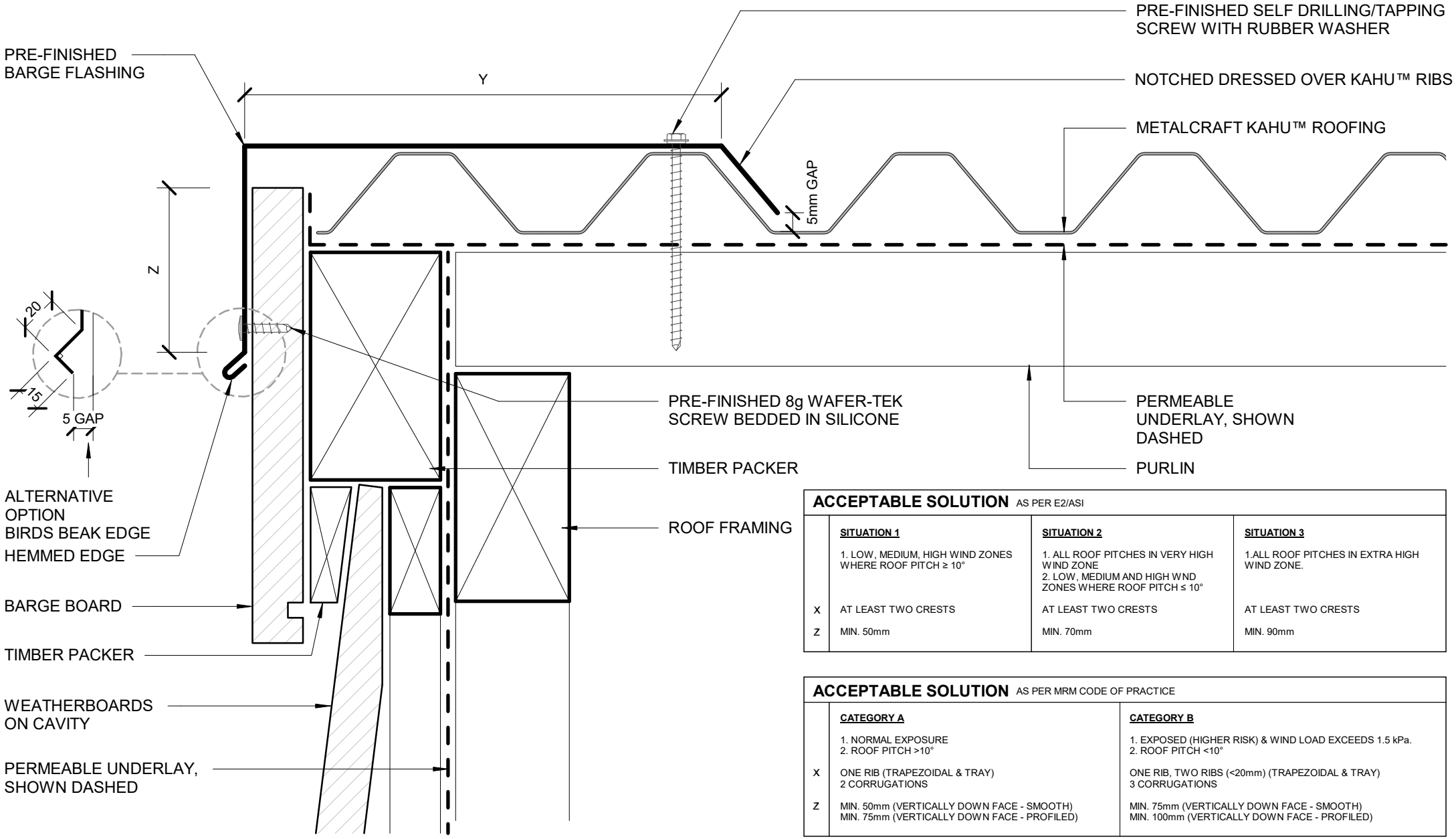
Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturers recommendations and NZBC regulations.

FLUSH EAVE WITH EXTERNAL GUTTER BRACKET

KAHU | Rev. 2.0 | RESIDENTIAL ROOFING

Reference RRKA | Date 28.02.2019 | Scale 1 : 2 | Sheet A 15 / 30



ACCEPTABLE SOLUTION AS PER E2/ASI

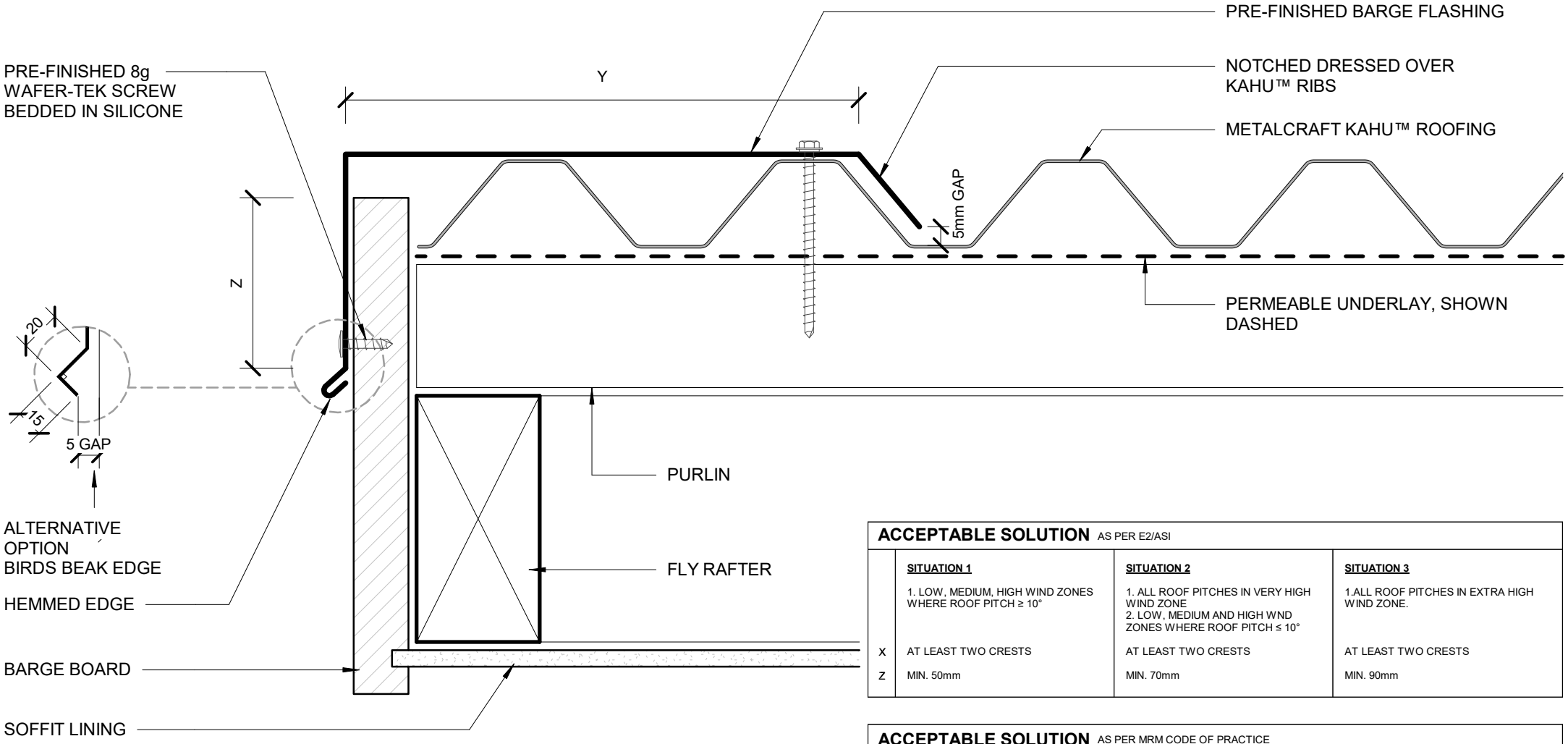
	SITUATION 1	SITUATION 2	SITUATION 3
	1. LOW, MEDIUM, HIGH WIND ZONES WHERE ROOF PITCH ≥ 10°	1. ALL ROOF PITCHES IN VERY HIGH WIND ZONE 2. LOW, MEDIUM AND HIGH WND ZONES WHERE ROOF PITCH ≤ 10°	1.ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE.
X	AT LEAST TWO CRESTS	AT LEAST TWO CRESTS	AT LEAST TWO CRESTS
Z	MIN. 50mm	MIN. 70mm	MIN. 90mm

ACCEPTABLE 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	ONE RIB (TRAPEZOIDAL & TRAY) 2 CORRUGATIONS	ONE RIB, TWO RIBS (<20mm) (TRAPEZOIDAL & TRAY) 3 CORRUGATIONS
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)

BARGE WITH PROFILED CLADDING

Metalcraft Roofing



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 AND HIGH WND ZONES WHERE ROOF PITCH ≤ 10°	1.ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE.
X	AT LEAST TWO CRESTS	AT LEAST TWO CRESTS	AT LEAST TWO CRESTS
Z	MIN. 50mm	MIN. 70mm	MIN. 90mm

ACCEPTABLE SOLUTION AS PER MRM CODE OF PRACTICE

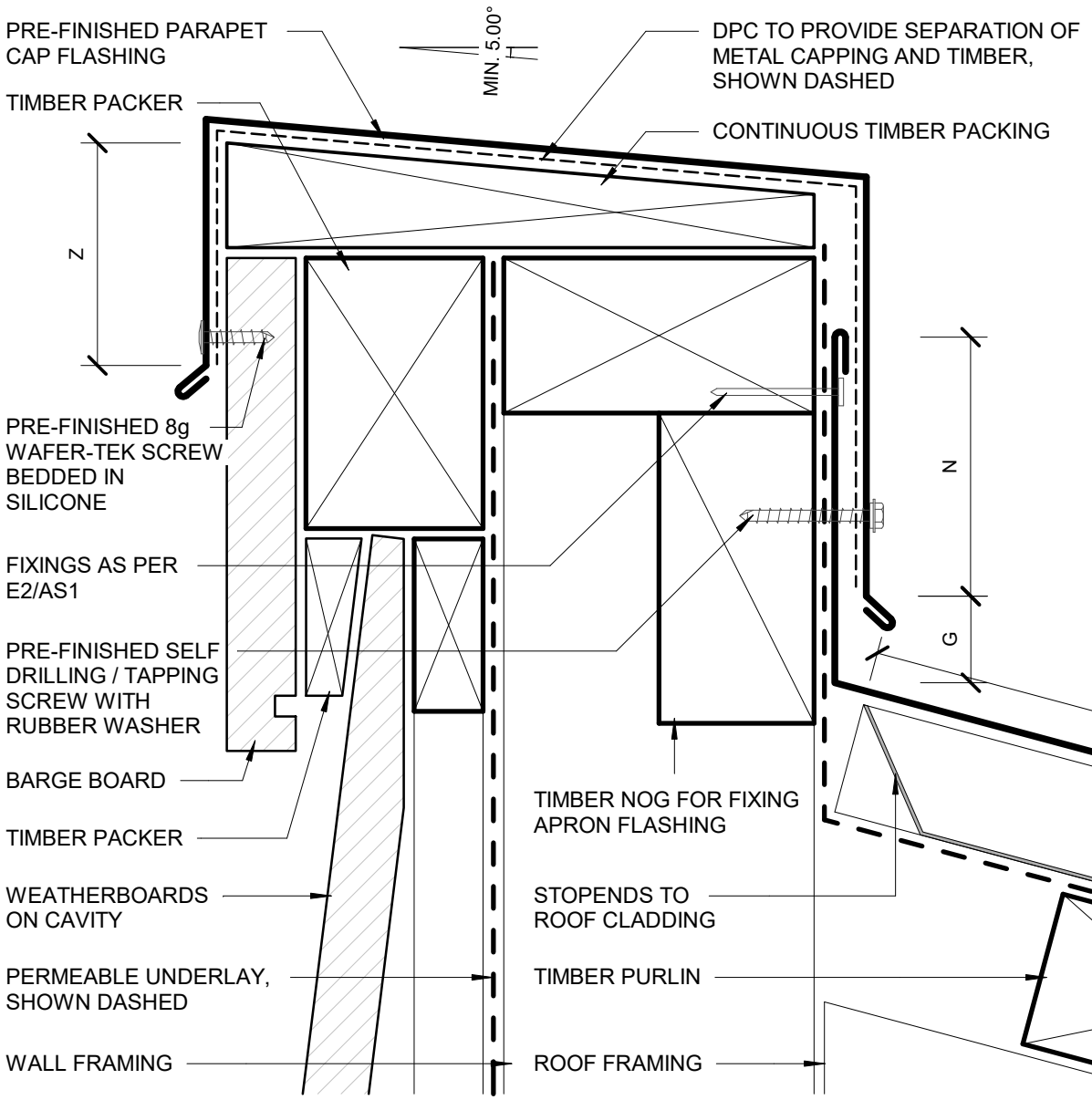
	CATEGORY A	CATEGORY B
	1. NORMAL EXPOSURE 2. ROOF PITCH >10°	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°
X	ONE RIB (TRAPEZOIDAL & TRAY) 2 CORRUGATIONS	ONE RIB, TWO RIBS (<20mm) (TRAPEZOIDAL & TRAY) 3 CORRUGATIONS
Z	MIN. 50mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 75mm (VERTICALLY DOWN FACE - PROFILED)	MIN. 75mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 100mm (VERTICALLY DOWN FACE - PROFILED)

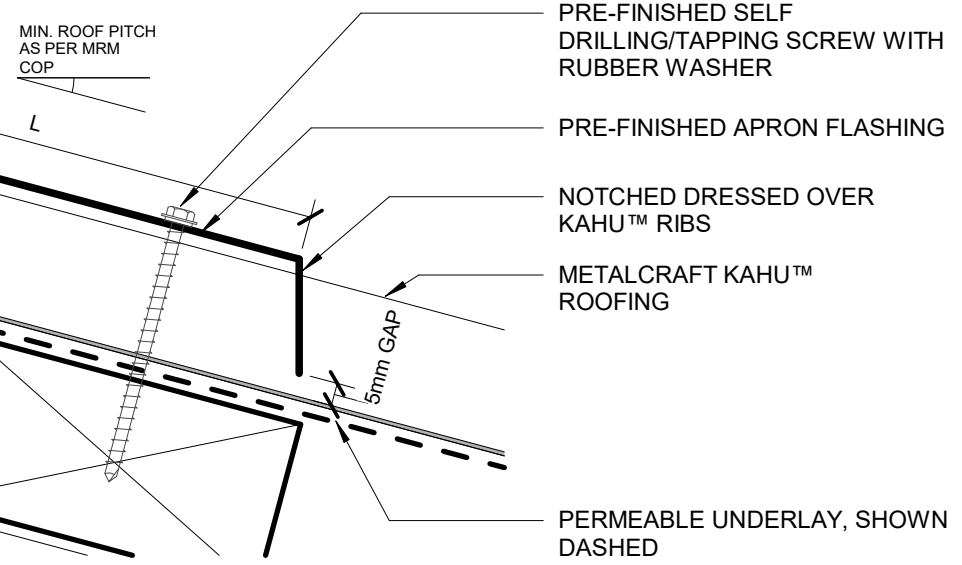
Metalcraft Roofing

BARGE OVERHANG

KAHU Rev. 2.0 RESIDENTIAL ROOFING

Reference RRKA Date 28.02.2019 Scale 1 : 2





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. 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

ACCEPTABLE SOLUTION AS PER MRM CODE OF PRACTICE

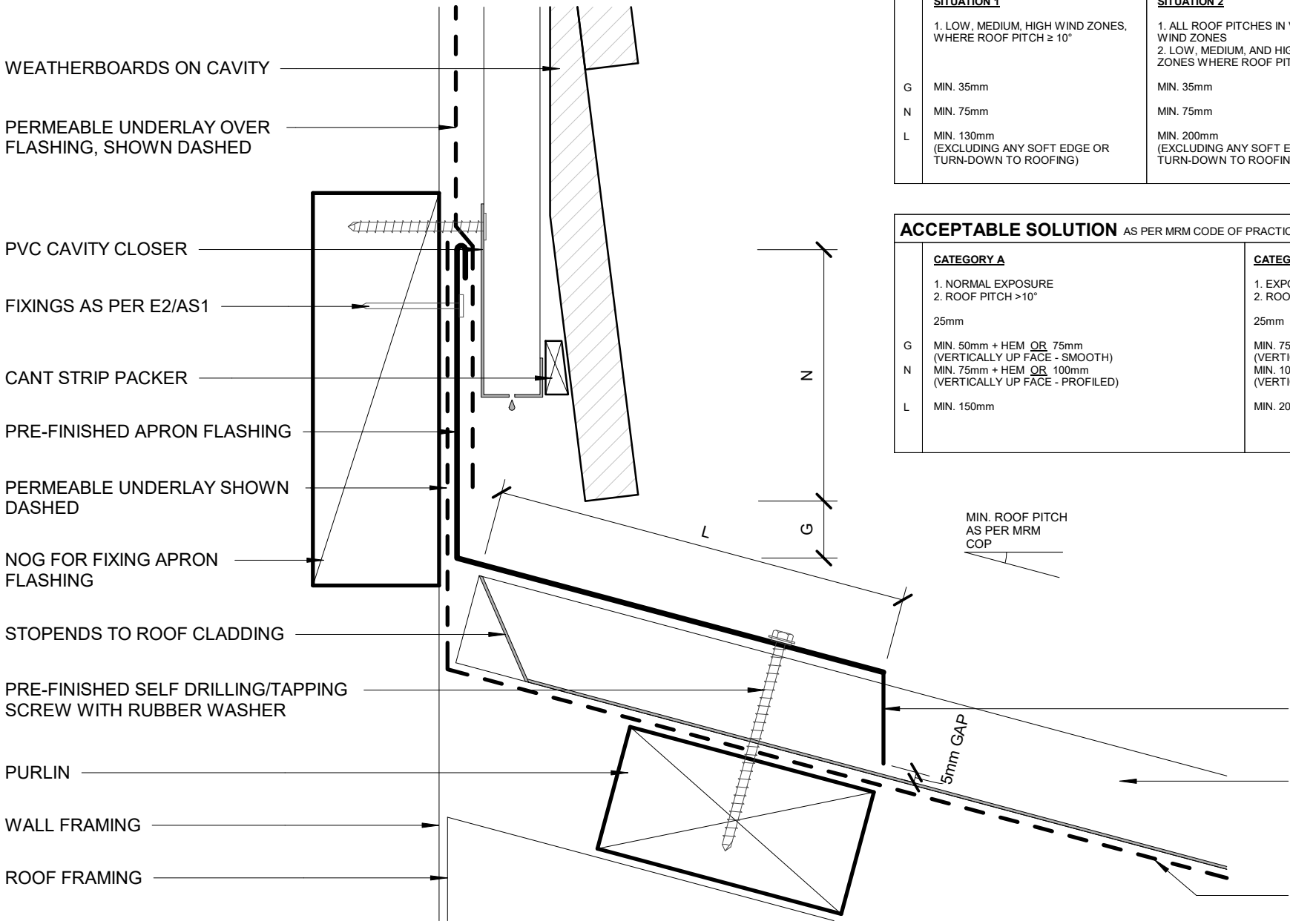
	CATEGORY A	CATEGORY B
	1. NORMAL EXPOSURE 2. ROOF PITCH >10°	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°
G	25mm	25mm
N	MIN. 50mm + HEM OR 75mm (VERTICALLY UP FACE - SMOOTH) MIN. 75mm + HEM OR 100mm (VERTICALLY UP FACE - PROFILED)	MIN. 75mm + HEM OR 100mm (VERTICALLY UP FACE - SMOOTH) MIN. 100mm + HEM OR 125mm (VERTICALLY UP FACE - PROFILED)
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)

Metalcraft Roofing

PARAPET WITH TRANSVERSE APRON

KAHU Rev. 2.0 RESIDENTIAL ROOFING

Reference RRKA Date 28.02.2019 Scale 1 : 2



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 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 (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)

ACCEPTABLE SOLUTION AS PER MRM CODE OF PRACTICE

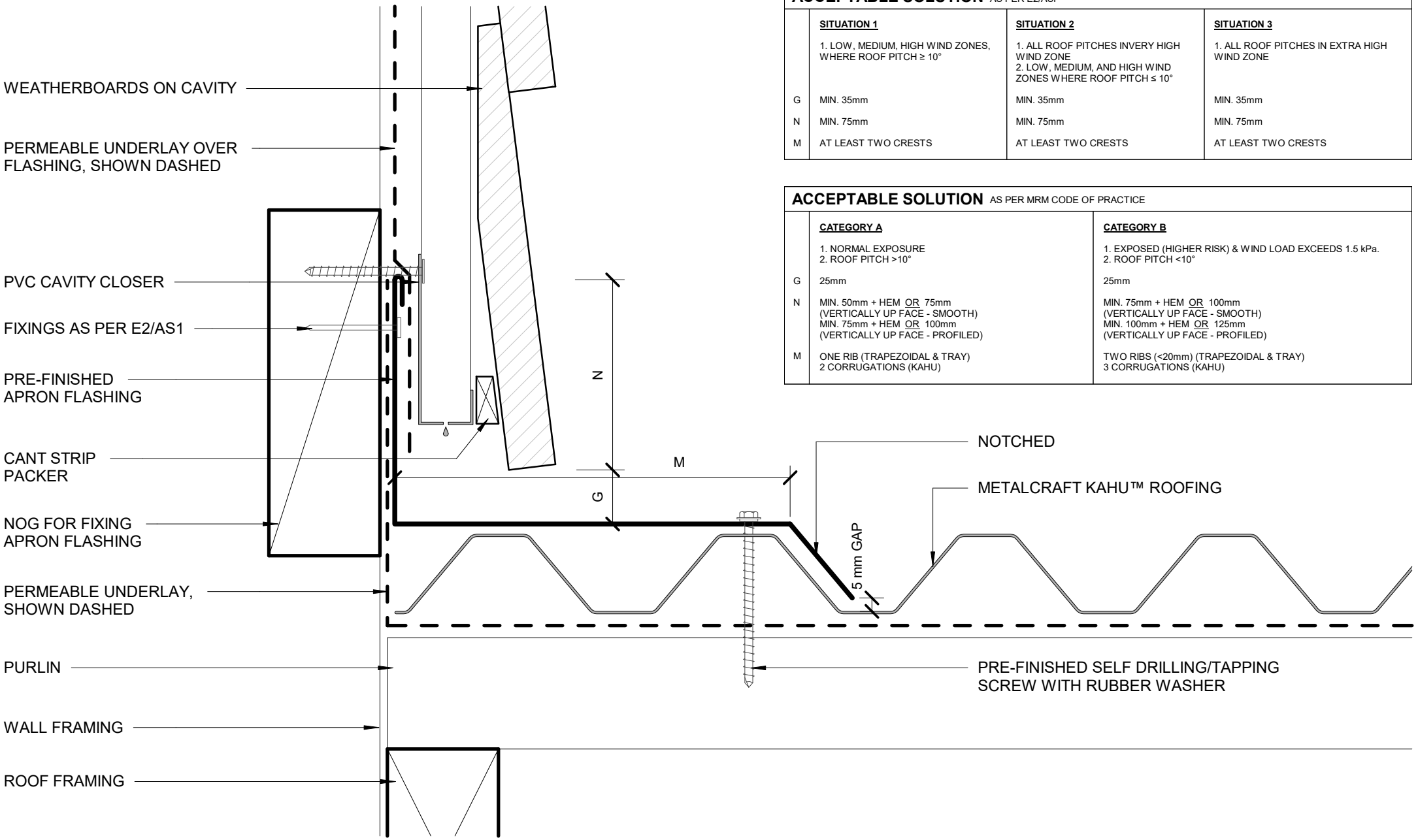
	CATEGORY A	CATEGORY B
	1. NORMAL EXPOSURE 2. ROOF PITCH >10°	1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH <10°
	25mm	25mm
G	MIN. 50mm + HEM OR 75mm (VERTICALLY UP FACE - SMOOTH)	MIN. 75mm + HEM OR 100mm (VERTICALLY UP FACE - SMOOTH)
N	MIN. 75mm + HEM OR 100mm (VERTICALLY UP FACE - PROFILED)	MIN. 100mm + HEM OR 125mm (VERTICALLY UP FACE - PROFILED)
L	MIN. 150mm	MIN. 200mm

TRANSVERSE APRON

KAHU Rev. 2.0 **RESIDENTIAL ROOFING**

Reference RRKA Date 28.02.2019 Scale 1 : 2 Sheet **A 19 / 30**

Metalcraft Roofing



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 INVERY 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

ACCEPTABLE 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 (TRAPEZOIDAL & TRAY) 2 CORRUGATIONS (KAHU)	TWO RIBS (<20mm) (TRAPEZOIDAL & TRAY) 3 CORRUGATIONS (KAHU)

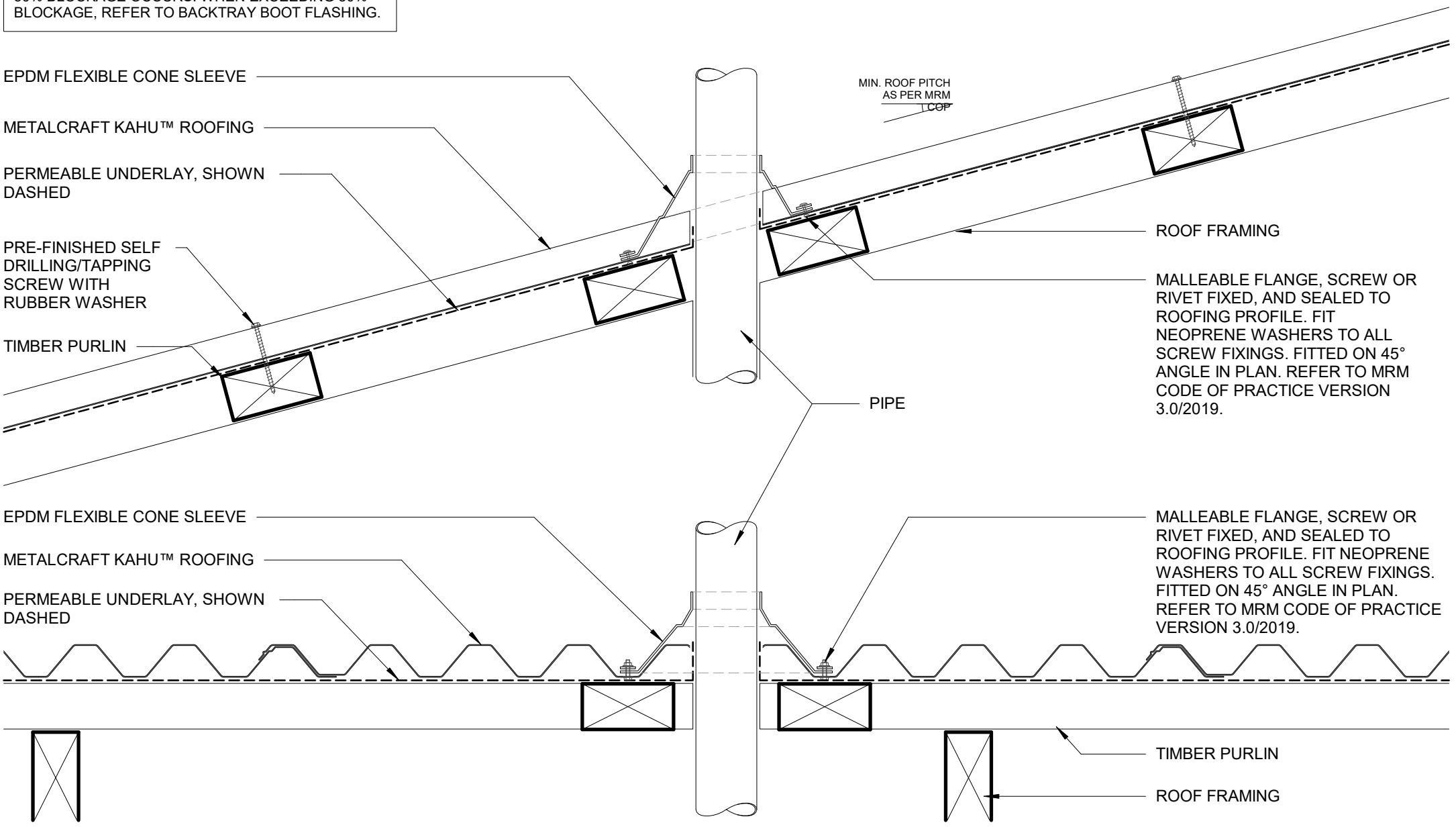
Metalcraft Roofing

PARALLEL APRON

KAHU | Rev. 2.0 | RESIDENTIAL ROOFING

Reference RRKA | Date 28.02.2019 | Scale 1 : 2 |

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



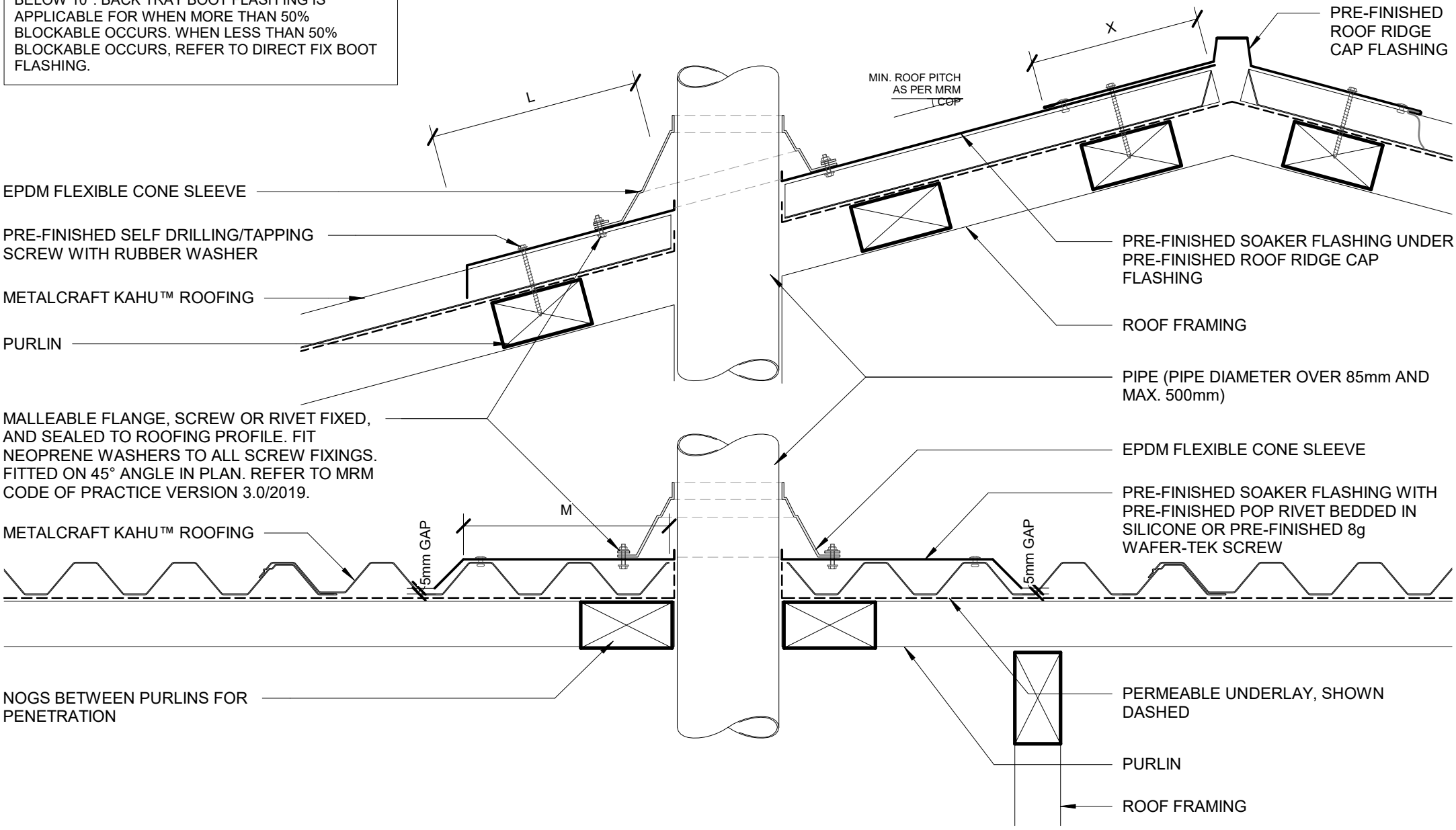
PIPE PENETRATION DIRECT FIXED BOOT FLASHING

KAHU Rev. 2.0 **RESIDENTIAL ROOFING**

Reference RRKA Date 28.02.2019 Scale 1 : 5 Sheet **A 21 / 30**

Metalcraft Roofing

*MIN. 3° FOR PIPE PENETRATION WITH A BACKTRAY BOOT FLASHING MUST BE FIXED DIAGONALLY BELOW 10°. BACK TRAY BOOT FLASH ING IS APPLICABLE FOR WHEN MORE THAN 50% BLOCKABLE OCCURS. WHEN LESS THAN 50% BLOCKABLE OCCURS, REFER TO DIRECT FIX BOOT FLASHING.



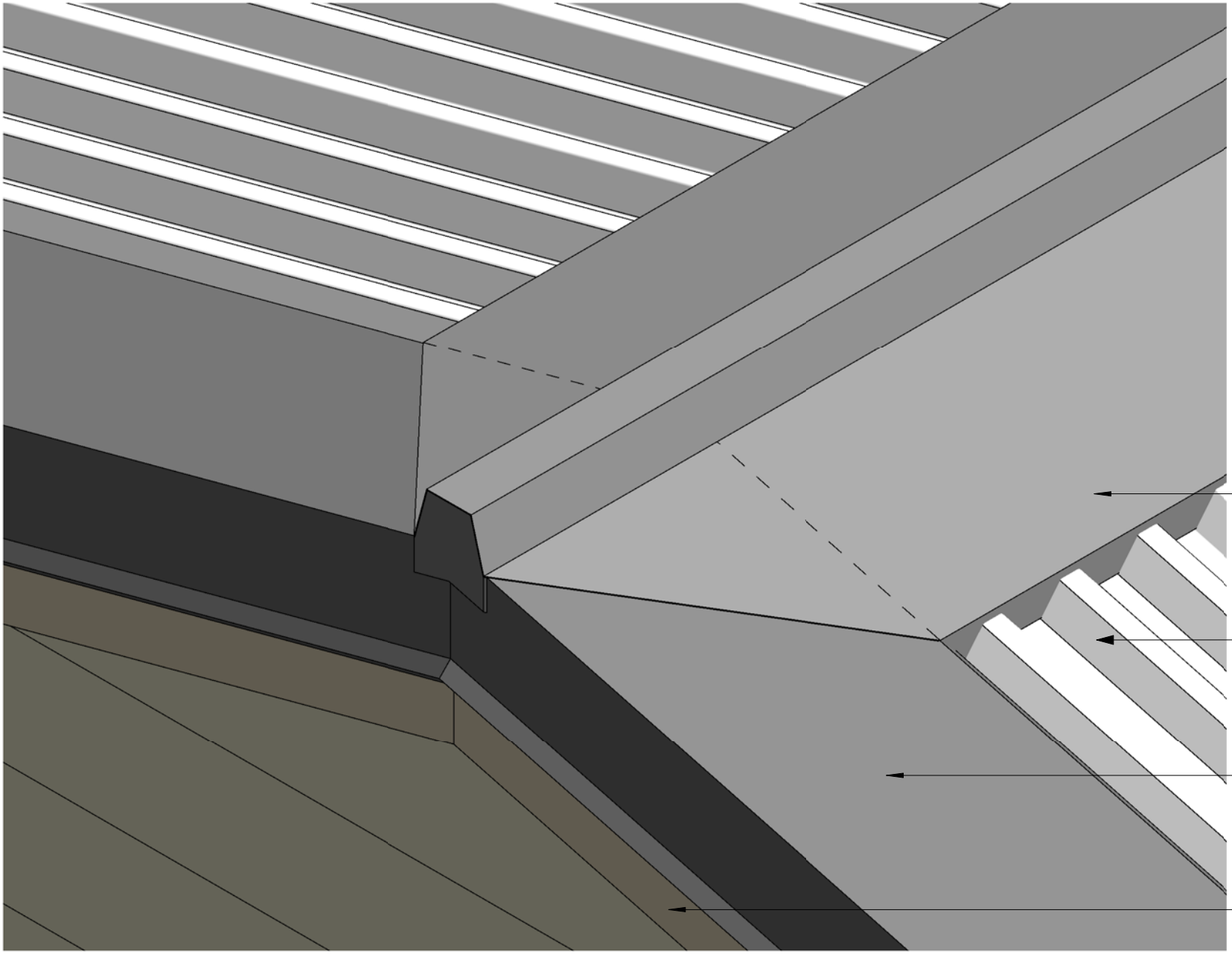
Metalcraft Roofing

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 / 2019, 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.

PIPE PENETRATION BACKTRAK BOOT FLASHING

KAHU | Rev. 2.0 | RESIDENTIAL ROOFING

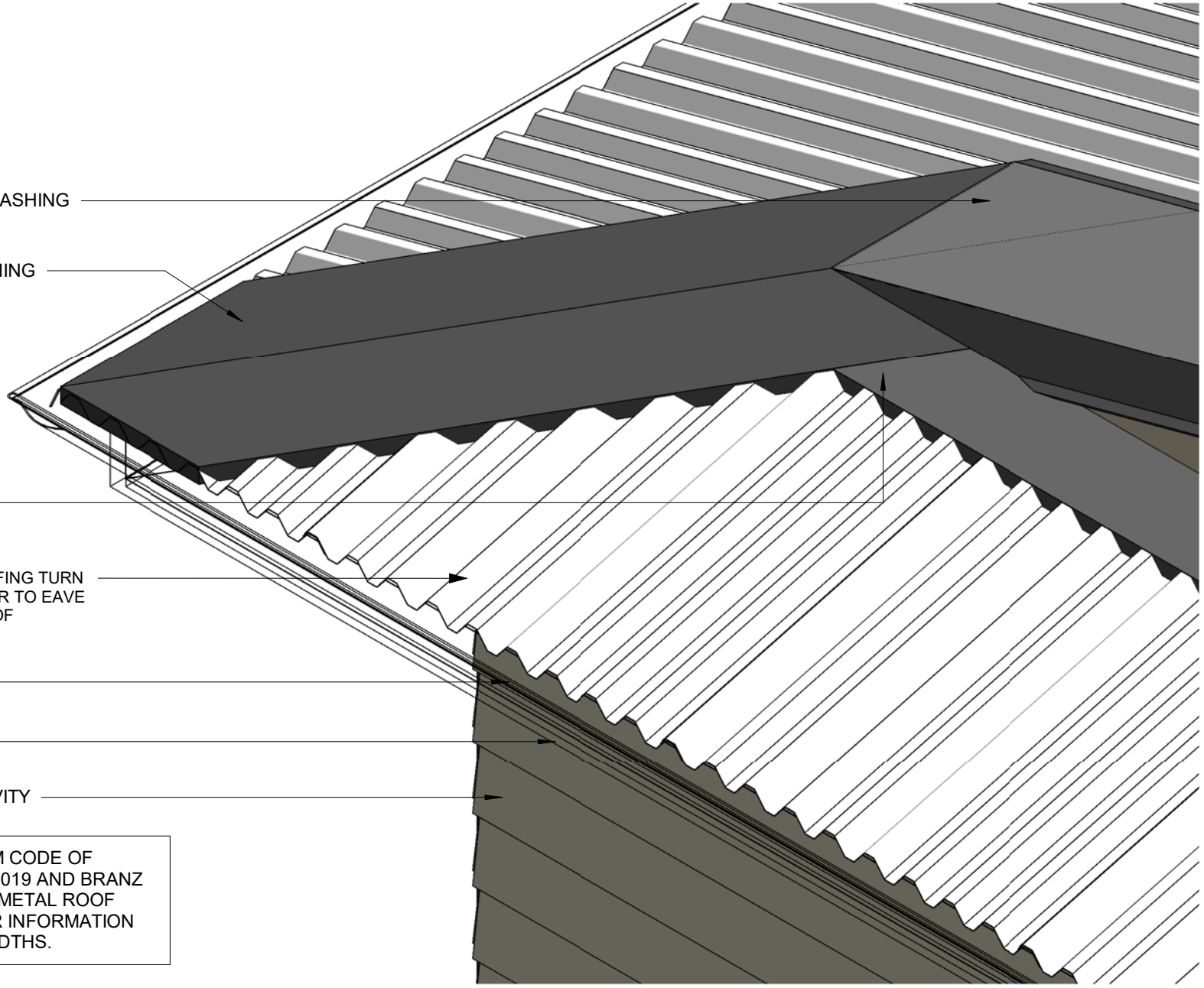
Reference RRKA | Date 28.02.2019 | Scale 1 : 5 | Sheet A 22 / 30



* PLEASE REFER TO MRM CODE OF PRACTICE VERSION 3.0/2019 AND BRANZ HOW TO ON-SITE GUIDE METAL ROOF FLASHING FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.

3D RIDGE TO BARGE JUNCTION

Metalcraft Roofing



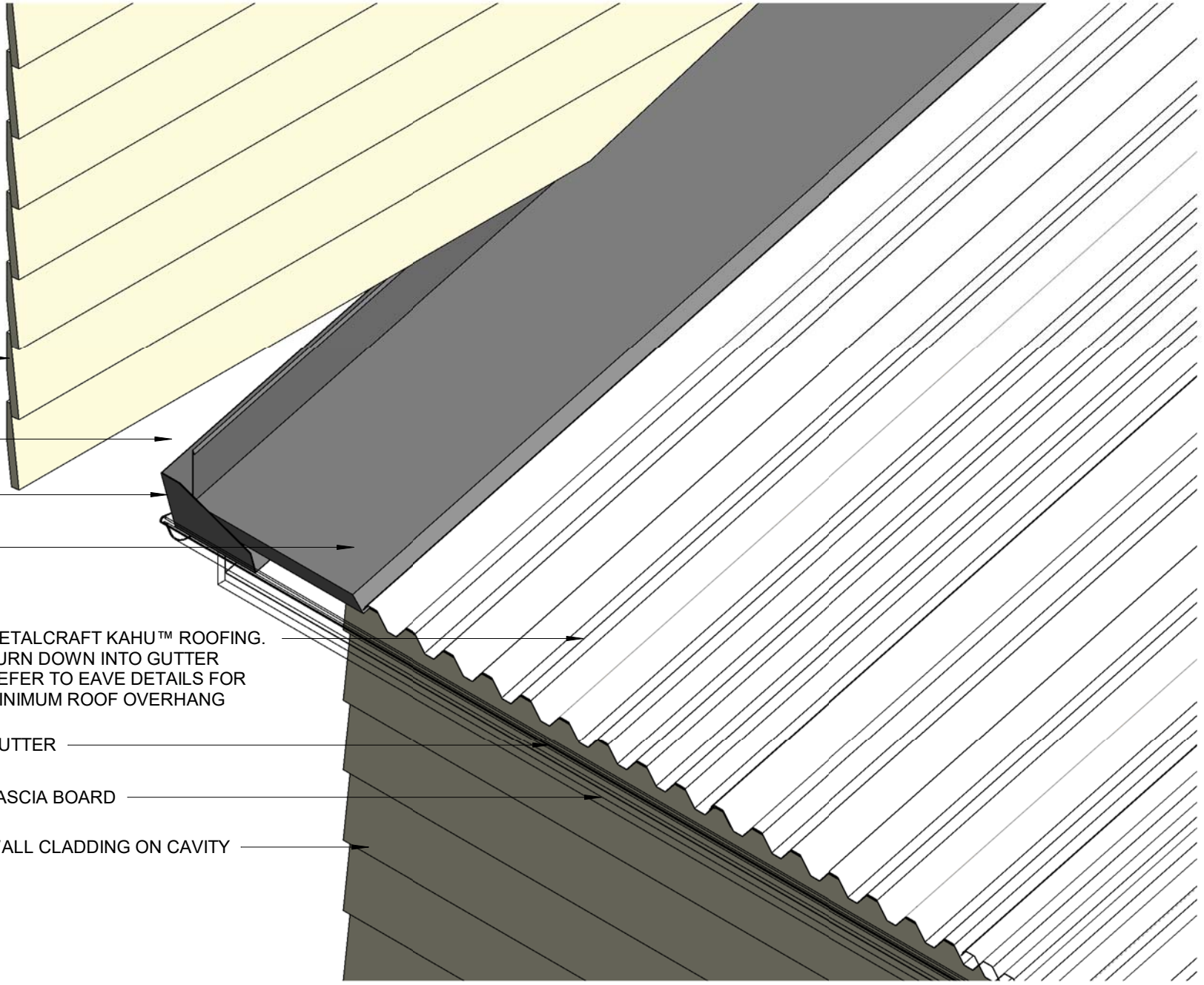
* PLEASE REFER TO MRM CODE OF PRACTICE VERSION 3.0/2019 AND BRANZ HOW TO ON-SITE GUIDE METAL ROOF FLASHING FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.

3D DUTCH GABLE

KAHU Rev. 2.0 **RESIDENTIAL ROOFING**

Reference RRKA Date 28.02.2019 Scale Sheet **A 24 / 30**

Metalcraft Roofing



* PLEASE REFER TO MRM CODE OF PRACTICE VERSION 3.0/2019 AND BRANZ HOW TO ON-SITE GUIDE METAL ROOF FLASHING FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.

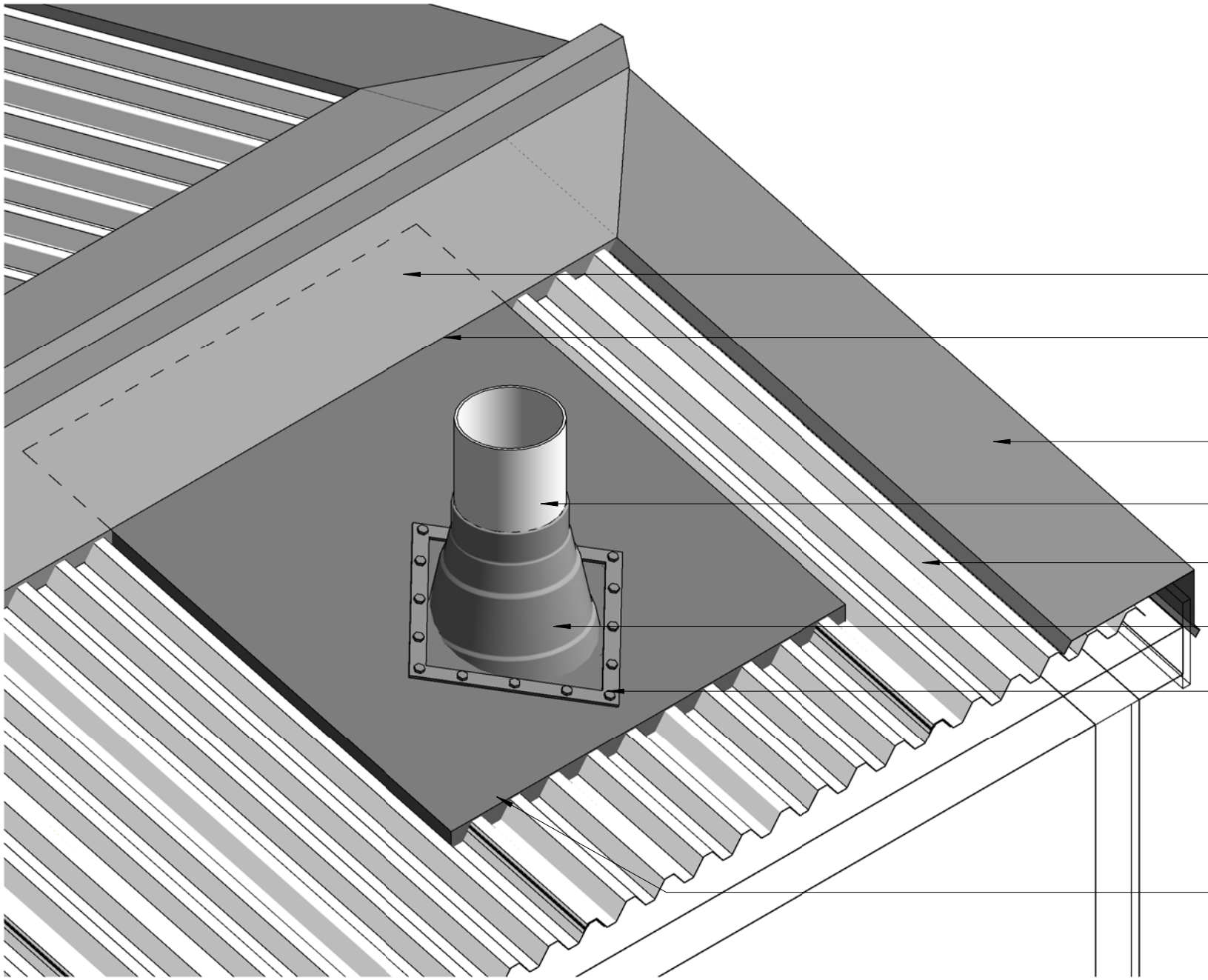
3D APRON

KAHU Rev. 2.0 **RESIDENTIAL ROOFING**

Reference RRKA Date 28.02.2019 Scale Sheet **A 25 / 30**

Metalcraft Roofing

* PLEASE REFER TO MRM CODE OF PRACTICE VERSION 3.0/2019 AND BRANZ HOW TO ON-SITE GUIDE METAL ROOF FLASHING FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.



PRE-FINISHED ROOF RIDGE FLASHING

PRE-FINISHED SOAKER FLASHING LINE UNDER PRE-FINISHED ROOFRIDGE FLASHING

PRE-FINISHED ROOF BARGE FLASHING

PIPE

METALCRAFT KAHU™ 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

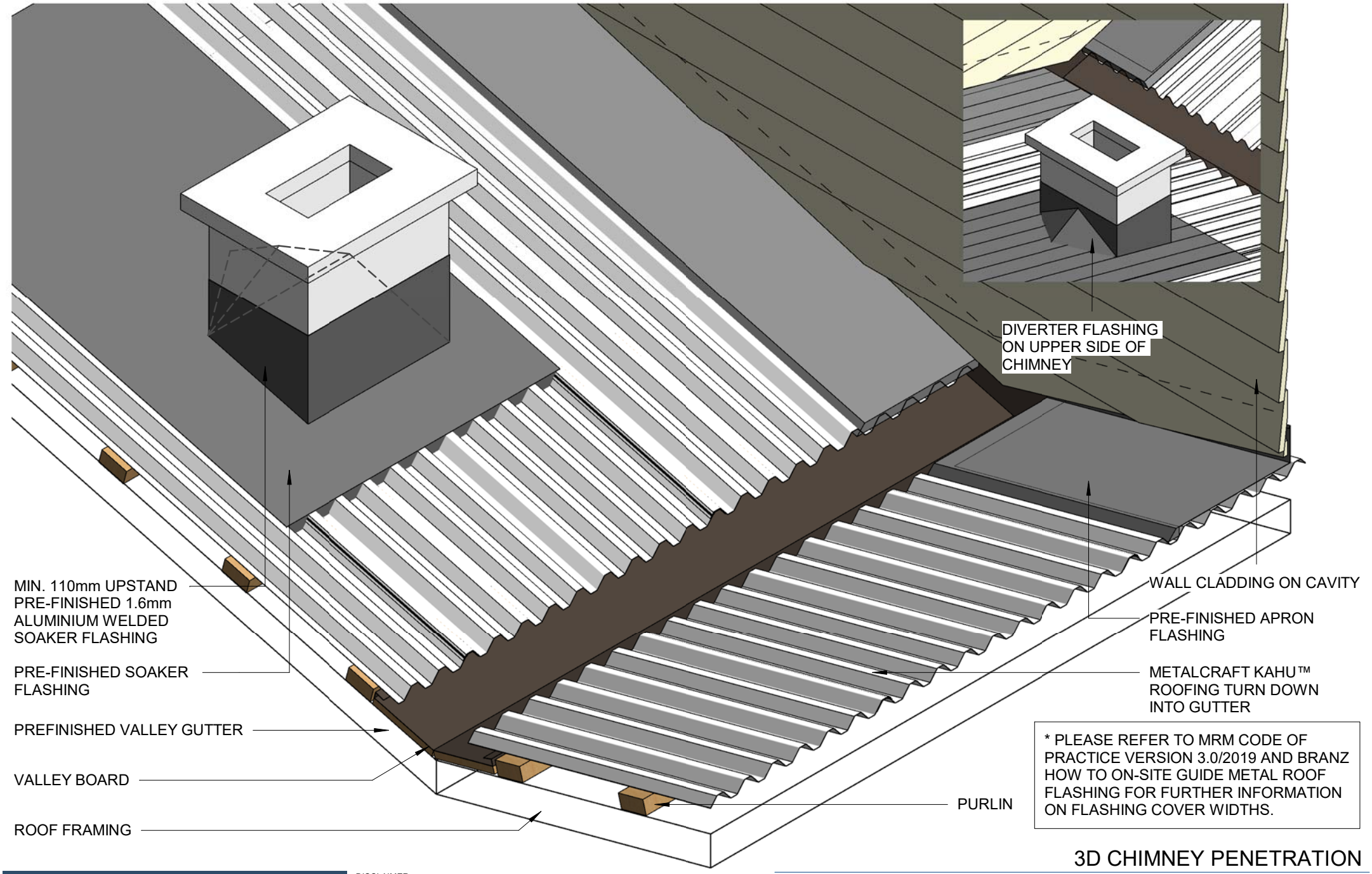
PRE-FINISHED SOAKER FLASHING

3D OVER 85mm DIAMETER PIPE PENETRATION

KAHU Rev. 2.0 **RESIDENTIAL ROOFING**

Reference RRKA Date 28.02.2019 Scale Sheet **A 26 / 30**

Metalcraft Roofing



* PLEASE REFER TO MRM CODE OF PRACTICE VERSION 3.0/2019 AND BRANZ HOW TO ON-SITE GUIDE METAL ROOF FLASHING FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.

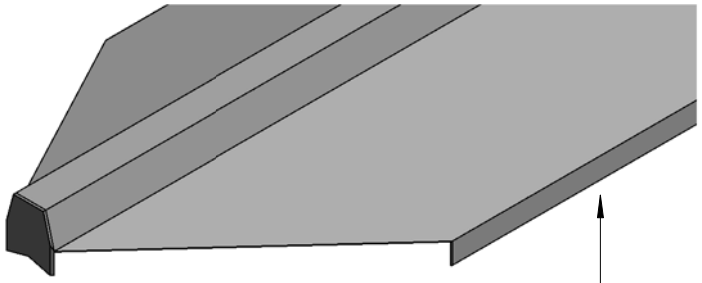
3D CHIMNEY PENETRATION

KAHU Rev. 2.0 **RESIDENTIAL ROOFING**

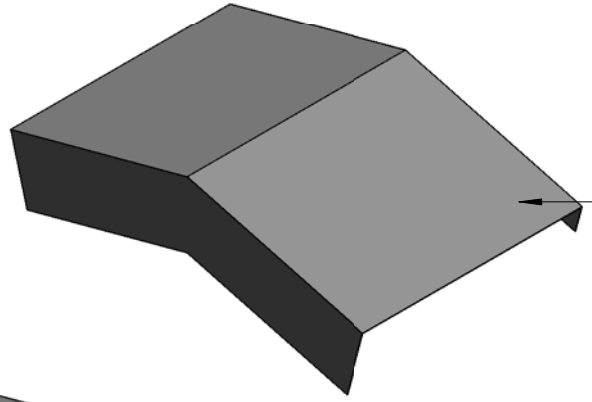
Reference RRKA Date 28.02.2019 Scale Sheet **A 27 / 30**

Metalcraft Roofing

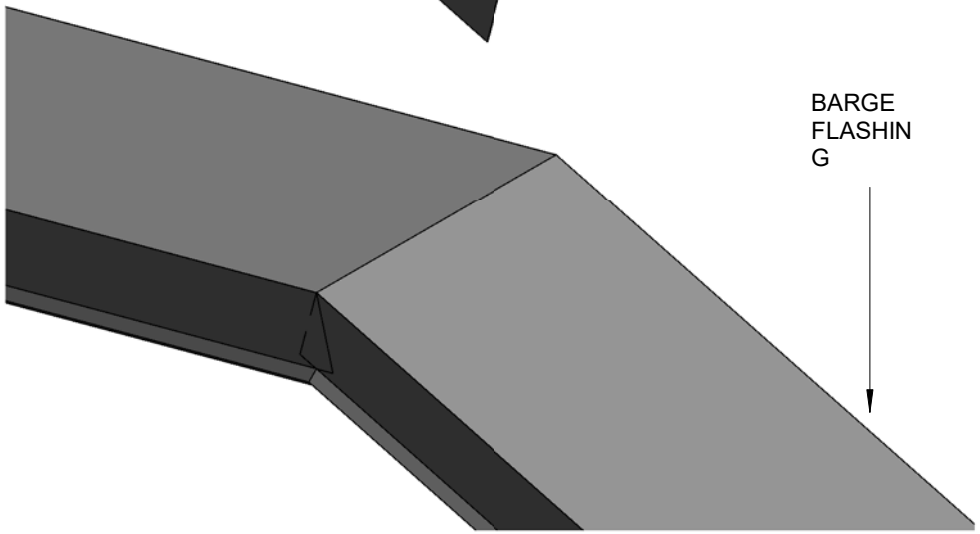
OPTION 1



RIDGE CAP FLASHING

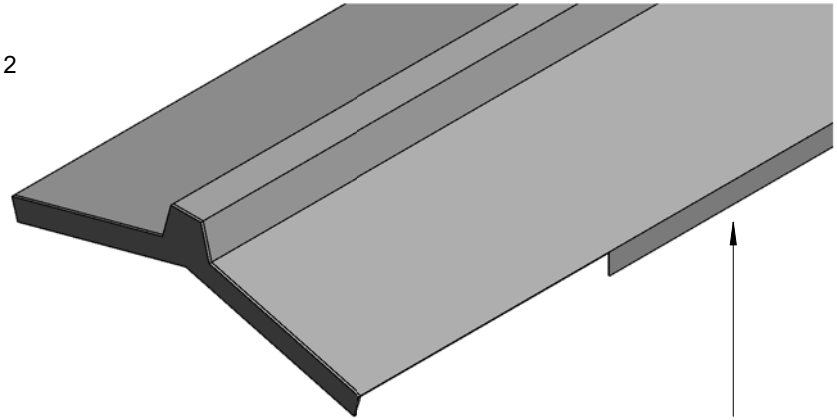


ADDITIONAL SADDLE FLASHING

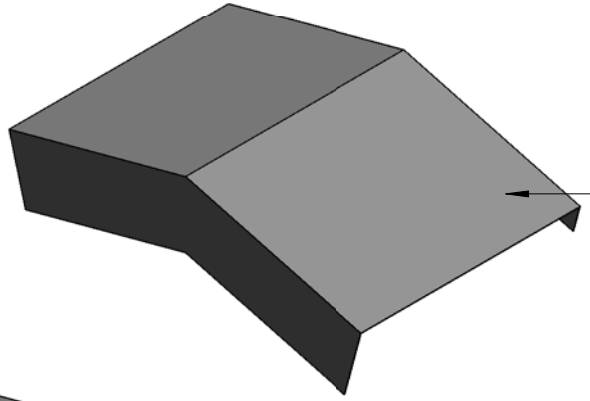


BARGE FLASHIN G

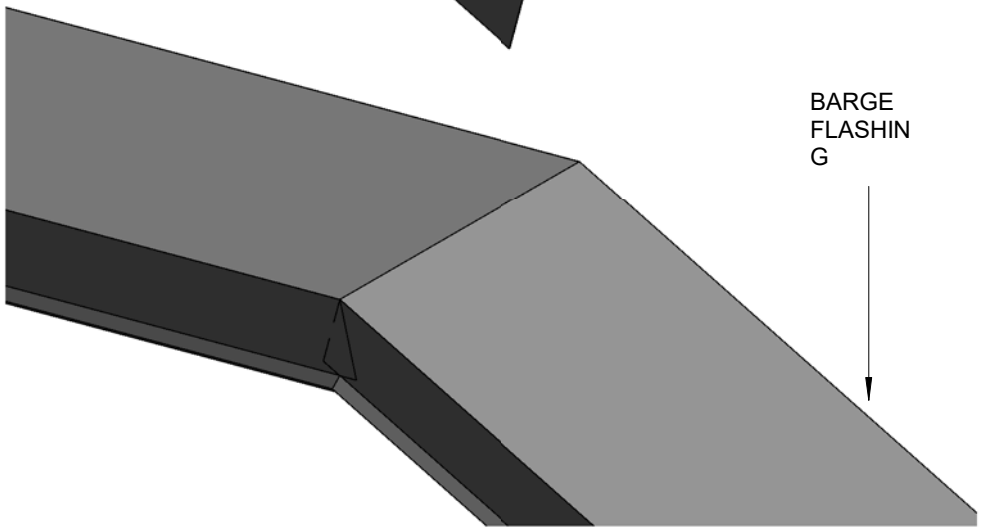
OPTION 2



RIDGE CAP FLASHING



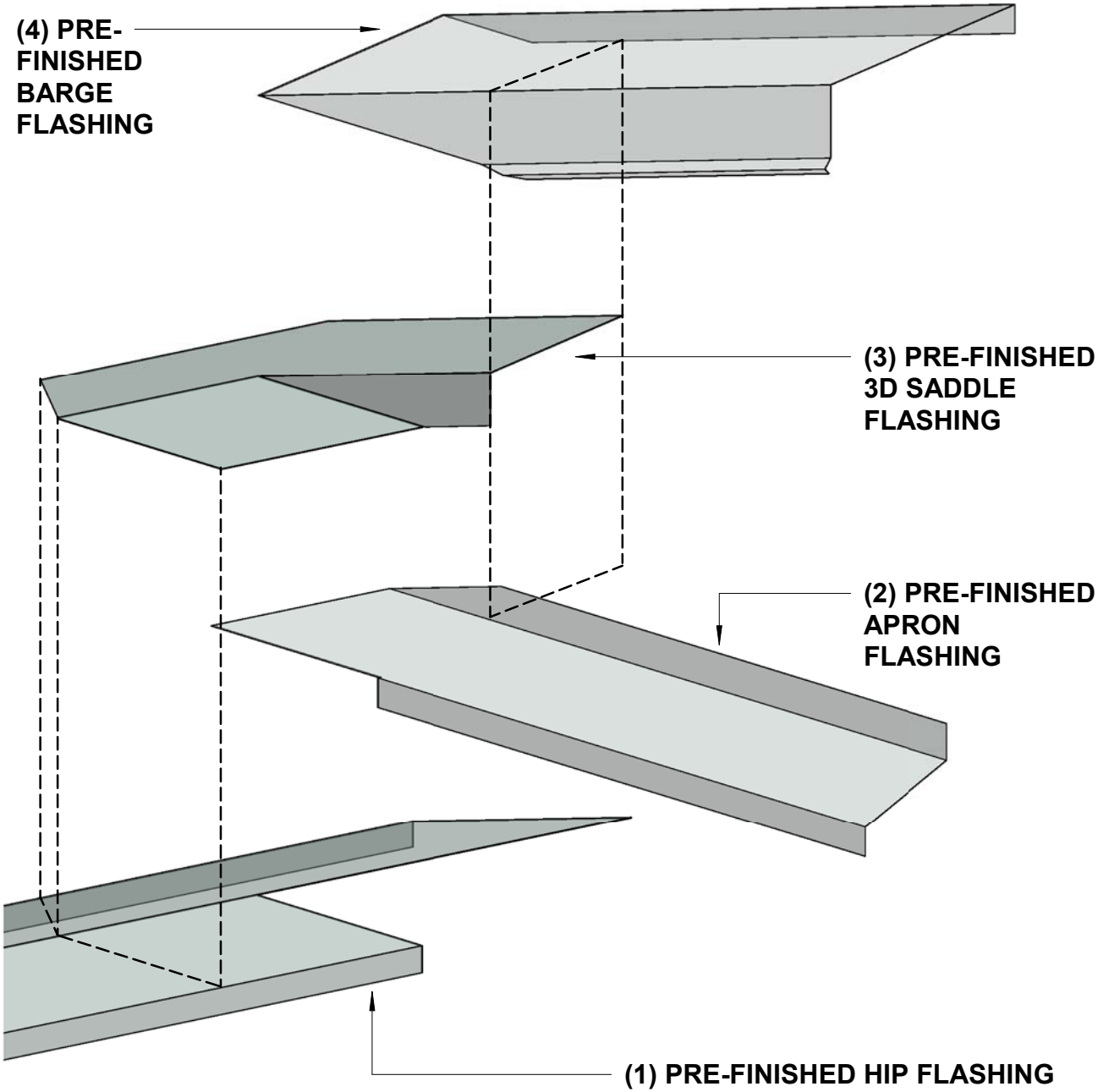
ADDITIONAL SADDLE FLASHING



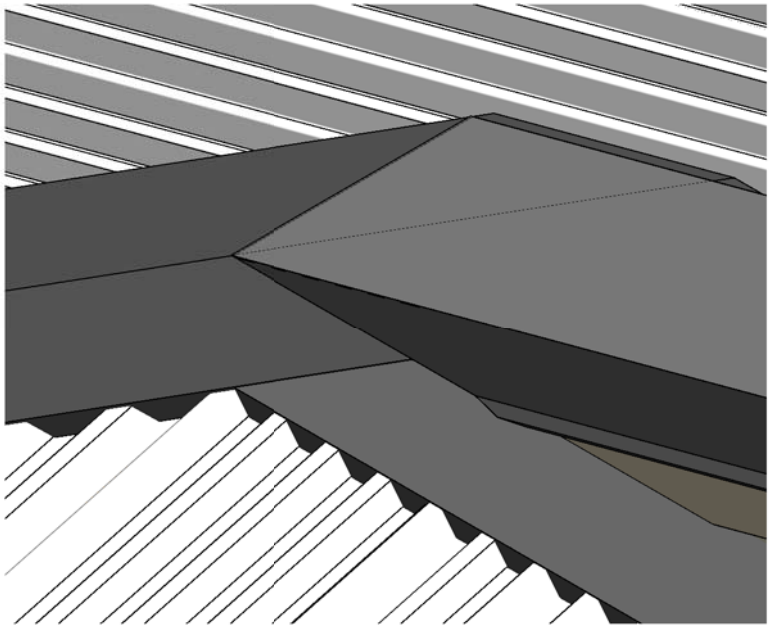
BARGE FLASHIN G

3D RIDGE/BARGE FLASHINGS

Metalcraft Roofing



* PLEASE REFER TO MRM CODE OF PRACTICE VERSION 3.0/2019 AND BRANZ HOW TO ON-SITE GUIDE METAL ROOF FLASHINGS FOR FURTHER INFORMATION ON FLASHING COVER WIDTHS.



3D DUTCH GABLE FLASHINGS

Metalcraft Roofing