

red co	Compliance with Building Code Clause B1 has been assessed by Redco NZ Limited for the follow conditions and fixings: Uplift Fixings for All NZS 3604 Wind Zones up to and including "Extra High"	
Eaves Overhang	Screws and Timber Wall Plates	Rivets and Flashings
None (Soffit only ⁷)	-	4.8mm Ø Rivets @ 300mm c/c

NOTES

- 1. All fixings noted herein have been assessed for wind uplift only.
- 2. Fixings for all lateral load conditions, such as bracing and roof diaphragms, must be specifically assessed by the building designer.
- 3. The fixings noted herein may not be suitable for fire-rated walls and roofs and must be specifically assessed by the building designer.
- 4. Both aluminium and steel blind rivets with a minimum diameter of 4.8mm are acceptable.
- 5. Aluminium flashings used in structural connections must be a minimum $40 \times 40 \times 2.0$ mm.
- 6. Steel flashings used in structural connections must be a minimum $40 \times 40 \times 0.5$ mm pre-galvanised.
- 7. Soffits up to 300mm are not considered as an eaves overhang for the purpose of this assessment.
- 8. Panel metal skins must not be cut unless specifically assessed by the building designer, especially for eaves overhangs.
- 9. The fixings noted herein are suitable for use with Metalcraft Insulated Panels' Span and -Panel product ranges with EPS and PIR cores.
- 10. Wind speeds exceeding 55m/s ("Extra High"), and all sites within Lee Zones must be specifically assessed by the building designer.

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)	

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	

SOFFIT DETAIL

ThermoSpan Residental

RESIDENTIAL ROOFING

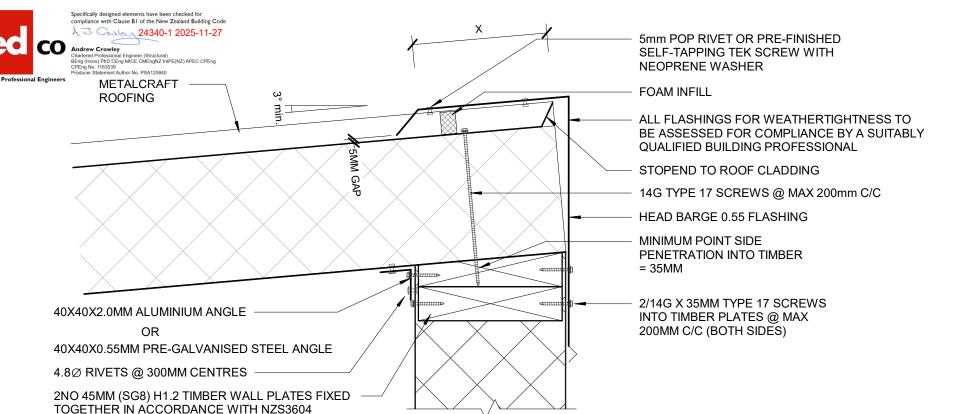
Metalcraft
Insulated Panel Systems

Insulated Panel Systems

Insulated Panel Systems

All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2 /2012, 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.

Reference RRTS Date 04.07.2023 Scale As indicated Sheet 01 / 04



red co	Compliance with Building Code Clause B1 has been assessed by Redco NZ Limited for the follow conditions and fixings: Uplift Fixings for All NZS 3604 Wind Zones up to and including "Extra High"	
Eaves Overhang	Screws and Timber Wall Plates	Rivets and Flashings
None (Soffit only ⁷) 14g Type 17 @ 200mm c/c -		-

NOTES

All fixings noted herein have been assessed for wind uplift only.

Metalcraft Insulated Panel Systems

- Fixings for all lateral load conditions, such as bracing and roof diaphragms, must be specifically assessed by the building designer.
- The fixings noted herein may not be suitable for fire-rated walls and roofs and must be specifically assessed by the building designer.
- Both aluminium and steel blind rivets with a minimum diameter of 4.8mm are acceptable.
- Aluminium flashings used in structural connections must be a minimum 40 x 40 x 2.0mm.
- Steel flashings used in structural connections must be a minimum 40 x 40 x 0.5mm pre-galvanised.
- Soffits up to 300mm are not considered as an eaves overhang for the purpose of this assessment.
- Panel metal skins must not be cut unless specifically assessed by the building designer, especially for eaves overhangs.
- The fixings noted herein are suitable for use with Metalcraft Insulated Panels' -Span and -Panel product ranges with EPS and PIR cores.
- 10. Wind speeds exceeding 55m/s ("Extra High"), and all sites within Lee Zones must be specifically assessed by the building designer.

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)	

AL	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	

Date 04.07.2023

SOFFIT DETAIL

ThermoSpan Residental

RESIDENTIAL ROOFING

All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2 /2012, E2 and all other relevant building codes Details of the supporting mechanisms are indicative only. Compilance of the supporting mechanisms is the responsibility of the designer.

Reference RRTS

Scale As indicated

02 / 04



Specifically designed elements have been checked for compliance with Clause B1 of the New Zealand Building Code AJ. Cosley 24340-1 2025-11-27 5mm POP RIVET OR PRE-FINISHED SELE-TAPPING TEK SCREW WITH **Andrew Crowley** Chartered Professional Engineer (Structural)
BERG (Hons) PhD CEng MICE CMEngNZ IntPE(NZ) APEC CPEng
CPEng No. 1163539 **NEOPRENE WASHER** METALCRAFT **FOAM INFILL ROOFING** ∄. ALL FLASHINGS FOR WEATHERTIGHTNESS TO BE ASSESSED FOR COMPLIANCE BY A SUITABLY QUALIFIED BUILDING PROFESSIONAL 5MM STOPEND TO ROOF CLADDING GAP **HEAD BARGE 0.55 FLASHING BUTYL TAPE OPTIONAL** PRE-FINISHED SELF TAPPING TEK SCREW WITH NEOPRENE WASHER 40X40X2.0MM ALUMINIUM ANGLE OR 4.5mm SOFFIT BOARD 40X40X0.55MM PRE-GALVANISED STEEL ANGLE 4.8Ø RIVETS @ 300MM CENTRES



Compliance with Building Code Clause BI has been assessed by Redco NZ Limited for the follow conditions and fixings:

Uplift Fixings for All NZS 3604 Wind Zones up to and including "Extra High"

Eaves Overhang	Screws and Timber Wall Plates	Rivets and Flashings
Up to 25% of the Roof Span	-	4.8mm Ø Rivets @ 200mm c/c

NOTES

- All fixings noted herein have been assessed for wind uplift only.
- Fixings for all lateral load conditions, such as bracing and roof diaphragms, must be specifically assessed by the building designer.
- The fixings noted herein may not be suitable for fire-rated walls and roofs and must be specifically assessed by the building designer.
- Both aluminium and steel blind rivets with a minimum diameter of 4.8mm are acceptable.
- Aluminium flashings used in structural connections must be a minimum 40 x 40 x 2.0mm.
- Steel flashings used in structural connections must be a minimum 40 x 40 x 0.5mm pre-galvanised.
- Soffits up to 300mm are not considered as an eaves overhang for the purpose of this assessment.
- Panel metal skins must not be cut unless specifically assessed by the building designer, especially for eaves overhangs.
- The fixings noted herein are suitable for use with Metalcraft Insulated Panels' -Span and -Panel product ranges with EPS and PIR cores.
- 10. Wind speeds exceeding 55m/s ("Extra High"), and all sites within Lee Zones must be specifically assessed by the building designer.

SITUATION 1	SITUATION 2	SITUATION 3
1. LOW, MEDIUM, HIGH WIND ZONES, WHERE	1. ALL ROOF PITCHES IN VERY HIGH WIND ZONE	1. FOR ALL ROOF PITCHES IN EXTRA HIGH WIND ZONES

ROOF PITCH ≥ 10° 2. LOW, MEDIUM, HIGH WIND ZONES WHERE ROOF PITCH ≤ 10°

MIN. 130mm MIN. 200mm

ACCEPTABLE SOLUTION AS PER E2/ASI

(EXCLUDING ANY SOFT EDGE (EXCLUDING ANY SOFT **ÈDGE OR TURN-DOWN TO** OR TURN-DOWN TO ROOFING) ROOFING)

ALTERNATIVE SOLUTION 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° 2. ROOF PITCH <10° MIN. 130mm MIN. 200mm

SOFFIT DETAIL

ThermoSpan Residental

RESIDENTIAL ROOFING

All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2 /2012, 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.

03 / 04 Reference RRTS Date 04.07.2023 Scale As indicated



Specifically designed elements have been checked for compliance with Clause B1 of the New Zealand Building Code AJ. Cosley 24340-1 2025-11-27 5mm POP RIVET OR PRE-FINISHED Chartered Professional Engineer (Structural)
BEng (Hons) PhD CEng MICE CMEngNZ IntPE(NZ) APEC CPEng
CPEng No. 1163539 SELF-TAPPING TEK SCREW WITH **NEOPRENE WASHER METALCRAFT FOAM INFILL ROOFING** ALL FLASHINGS FOR WEATHERTIGHTNESS TO BE ASSESSED FOR COMPLIANCE BY A SUITABLY QUALIFIED BUILDING PROFESSIONAL 5MM STOPEND TO ROOF CLADDING GAP **HEAD BARGE 0.55 FLASHING** 14G TYPE 17 SCREWS @ MAX 200mm C/C **BUTYL TAPE OPTIONAL** PRE-FINISHED SELF TAPPING TEK SCREW WITH NEOPRENE WASHER 4.5mm SOFFIT BOARD 40X40X2.0MM ALUMINIUM ANGLE OR MINIMUM POINT SIDE PENETRATION INTO TIMBER = 45MM 40X40X0.55MM PRE-GALVANISED 2/14G X 35MM TYPE 17 SCREWS INTO TIMBER PLATES @ MAX 200MM C/C (BOTH SIDES) STEEL ANGLE 2NO 45MM (SG8) H1.2 TIMBER WALL PLATES FIXED TOGETHER IN ACCORDANCE WITH 4.8Ø RIVETS @ 300MM CENTRES

NZS3604

red co	Compliance with Building Code Clause B1 has been assessed by Redco NZ Limited for the follow conditions and fixings:	
	Uplift Fixings for All NZS 3604 Wind Zones up to and including "Extra High"	
Eaves Overhang	Screws and Timber Wall Plates	Rivets and Flashings
Up to 25% of the Roof Span	14g Type 17 @ 200mm c/c	-

NOTES

- All fixings noted herein have been assessed for wind uplift only.
- Fixings for all lateral load conditions, such as bracing and roof diaphragms, must be specifically assessed by the building designer.
- The fixings noted herein may not be suitable for fire-rated walls and roofs and must be specifically assessed by the building designer.
- Both aluminium and steel blind rivets with a minimum diameter of 4.8mm are acceptable.
- Aluminium flashings used in structural connections must be a minimum 40 x 40 x 2.0mm.
- Steel flashings used in structural connections must be a minimum 40 x 40 x 0.5mm pre-galvanised.
- Soffits up to 300mm are not considered as an eaves overhang for the purpose of this assessment.
- Panel metal skins must not be cut unless specifically assessed by the building designer, especially for eaves overhangs.
- The fixings noted herein are suitable for use with Metalcraft Insulated Panels' -Span and -Panel product ranges with EPS and PIR cores.
- 10. Wind speeds exceeding 55m/s ("Extra High"), and all sites within Lee Zones must be specifically assessed by the building designer.

	OITHATION 4	CITUATION	CITUATION
	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
Κ	MIN. 130mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)	MIN. 200mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)	

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	

SOFFIT DETAIL

ThermoSpan Residental

RESIDENTIAL ROOFING

All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2 /2012, 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.

04 / 04 Reference RRTS Date 04.07.2023 Scale As indicated