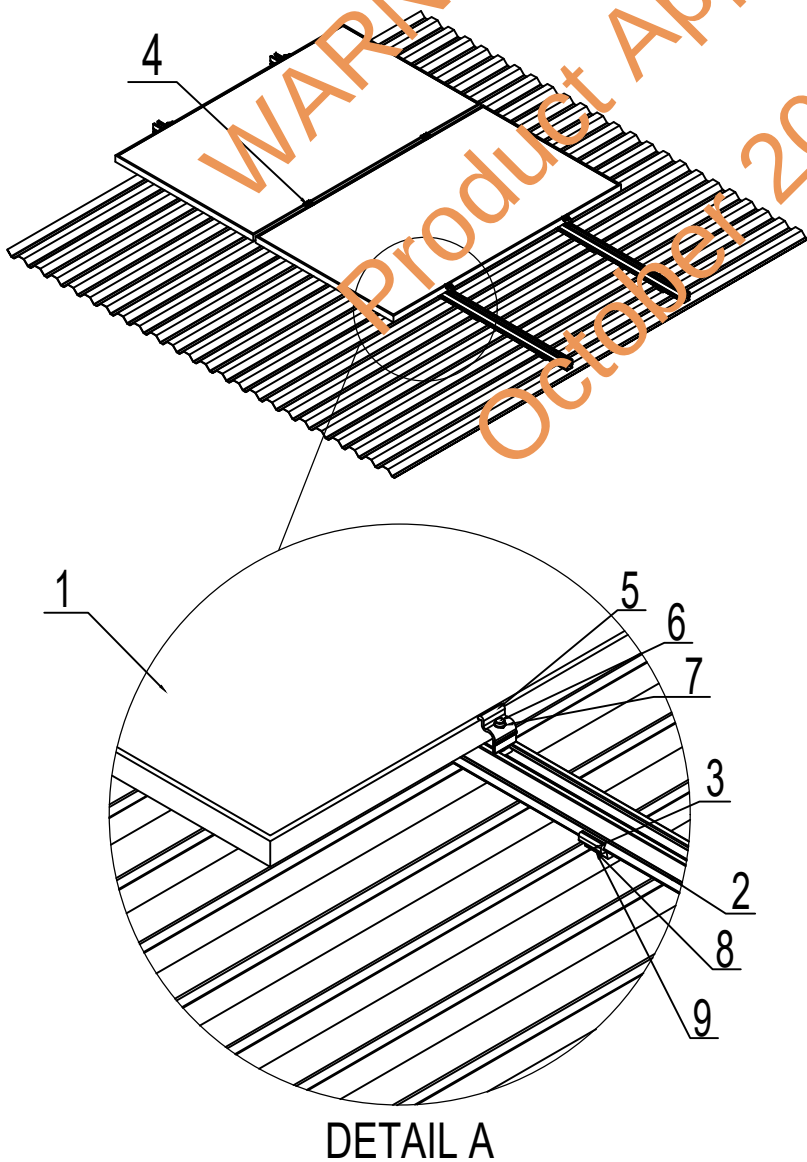
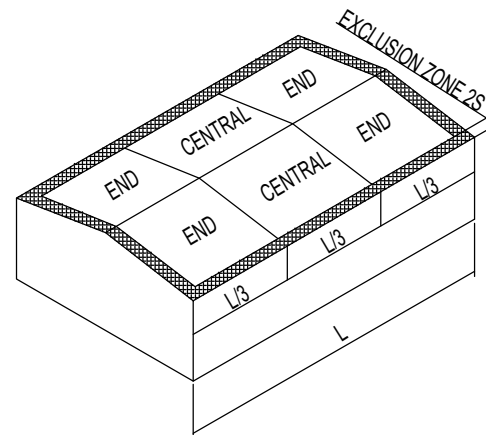




ITEM	DESCRIPTION	PROVIDED BY
1	PV MODULE	INSTALLER
2	SLSCC3 RAIL	SUNLOCK
3	SLCF2 BRACKET	SUNLOCK
4	SLCMC-3040 MIDDLE CLAMP	SUNLOCK
5	SLCEC-3040 END CLAMP	SUNLOCK
6	M8 CAP SCREW	SUNLOCK
7	M8 FLAT WASHER	SUNLOCK
8	ROOF SEALING WASHER	SUNLOCK
9	FASTENER	SUNLOCK



ROOF ZONE FOR PANEL ARRAY

Product Name
FRAME, CYCLONE MOUNTING
SUNLOCK SOLAR PANEL MOUNTING SYSTEM

Product Description
SOLAR MODULE SUPPORT FRAME
FIXINGS FOR SHEET METAL ROOF

Manufacturer's Details
SUNLOCK AUSTRALIA PTY LTD

Design Criteria

- CLASS OF BUILDING: CLASS 10
- IMPORTANCE LEVEL 2
- DESIGN LIFE 25 YEARS
- ANNUAL PROBABILITY OF EXCEEDANCE 1:500
- WIND REGION C
- VR = 69 MS⁻¹
- TERRAIN CATEGORY 2 / 2.5 / 3
- REFERENCE ROOF HEIGHT: 10m
- TERRAIN/HEIGHT MULTIPLIER M_z , cat = 1.0 / 0.92 / 0.83
- TOPOGRAPHIC MULTIPLIER M_T = 1.0 (flat)
- SHIELDING MULTIPLIER M_s = 1.0
- Clg TO AS1170.2: APPENDIX D6
- THE MINIMUM FIXING CAPACITY IS 0.6kN

Limitations

- MAXIMUM ROOF HEIGHT = 10m
- MAXIMUM ROOF PITCH = 30°
- SOLAR PANELS ARE TO BE CERTIFIED SEPARATELY
- MAXIMUM SOLAR PV MODULE 1670mm x 1000mm
- FOR METAL SHEET ROOFS ONLY
- THE EXISTING ROOF STRUCTURE SHALL BE CERTIFIED SEPARATELY BY THIRD PARTY ENGINEERS TO ENSURE THE STRUCTURAL ADEQUACY FOR THE PROPOSED PV SYSTEM INSTALLATION
- PANELS MUST BE ATTACHED TO ENCLOSED BUILDINGS WITH ASPECT RATIOS $h/d \leq 0.5$ AND $h/b \leq 0.5$
- PANELS MUST BE ATTACHED PARALLEL TO THE ROOF PLANE
- PANELS MUST BE INSTALLED LEAVING A GAP OF 50mm TO 300mm BETWEEN THE UNDERSIDE OF THE PANEL AND THE ROOF(S) (NO PITCHED FRAMES)
- PANELS MUST BE INSTALLED LEAVING AN OFFSET OF "2S" TO ALL ROOF EDGES. "S" EQUALS TO THE GAP HEIGHT BETWEEN UNDERSIDE OF THE PANEL AND THE ROOF SURFACE

PP JOB NO. E20100153 SHEET 1 of 3

Accepted for inclusion in Deemed to Comply Manual

DTCM drawing number: M/263/01

Chairperson Signature:

Chairperson Name: Paul Nowland

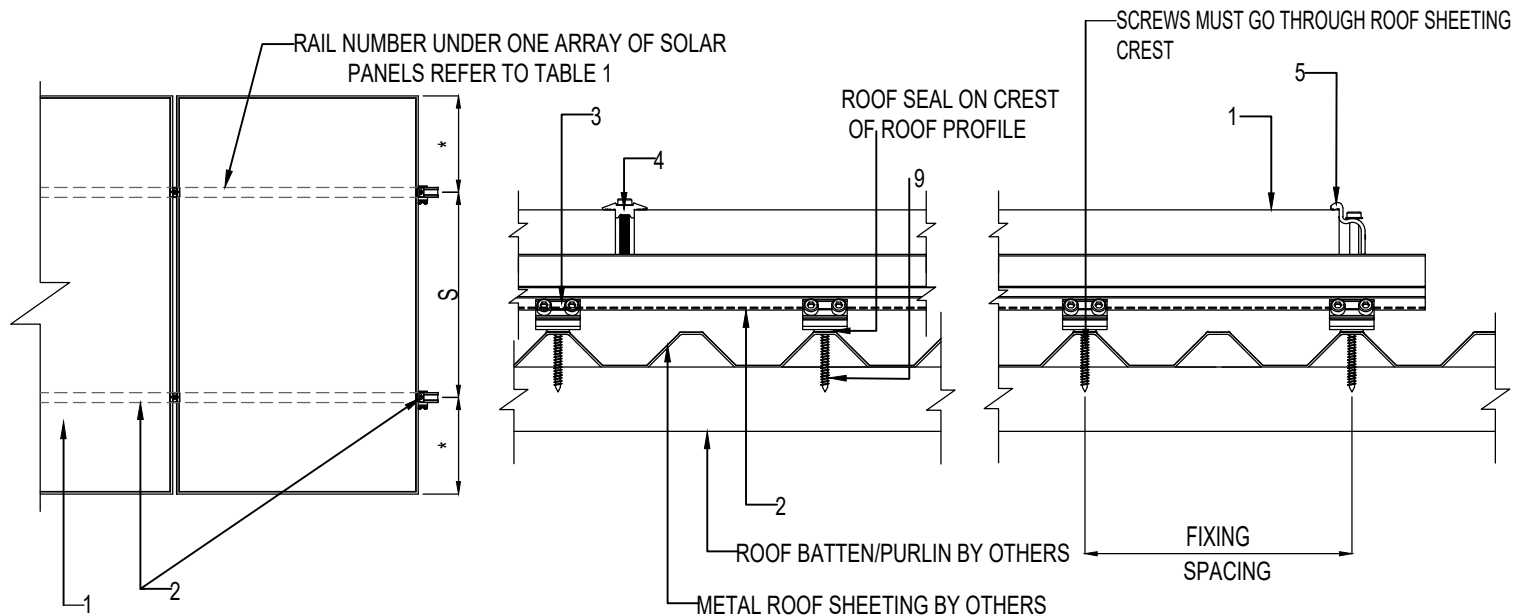
Date of Approval: 20/10/2021 Expiry Date: 20/10/2026

Notes covering basis of DTC (Relevant test reports etc)

1. THIS DTCM SHEET IS FOR SUNLOCK PV MOUNTING FRAME ONLY.
2. REFER TO SUNLOCK CHANNEL+CHANNEL FOOT: TENSILE TEST REPORT (REPORT CODE 20200408001 DATED 08/04/2020) AND SUNLOCK CHANNEL+CHANNEL NUT+CHANNEL FOOT: TENSILE TEST REPORT (REPORT CODE 20200408002 DATED 08/04/2020) FOR TESTING DATA

Checking Engineer
Name: Zhichao Zhang
Registration Number: NER 4430964
Date: 19/10/2021
Signature:
Must be an Australian registered structural engineer

Certifying Engineer
Name: Pinnawala Ariyaratna
NT Registration Number: 226837ES
Date: 19/10/2021
Signature:
Must be a registered structural engineer in the Northern Territory



Product Name
FRAME, CYCLONE MOUNTING
SUNLOCK SOLAR PANEL MOUNTING SYSTEM

Product Description
SOLAR MODULE SUPPORT FRAME
FIXINGS FOR SHEET METAL ROOF

Manufacturer's Details
SUNLOCK AUSTRALIA PTY LTD

Design Criteria

- CLASS OF BUILDING: CLASS 10
- IMPORTANCE LEVEL 2
- DESIGN LIFE 25 YEARS
- ANNUAL PROBABILITY OF EXCEEDANCE 1:500
- WIND REGION C
- VR = 69 MS-1
- TERRAIN CATEGORY 2 / 2.5 / 3
- REFERENCE ROOF HEIGHT: 10m
- TERRAIN/HEIGHT MULTIPLIER M_z cat = 1.0 / 0.92 / 0.83
- TOPOGRAPHIC MULTIPLIER M_t = 1.0 (flat)
- SHIELDING MULTIPLIER M_s = 1.0
- Cfg TO AS1170.2: APPENDIX D6
- THE MINIMUM FIXING CAPACITY IS 0.6kN

Limitations

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PP JOB NO. E20100153 SHEET 2 of 3

Accepted for inclusion in Deemed to Comply Manual

DTCM drawing number: M/263/02

Chairperson Signature:

Chairperson Name: Paul Nowland

Date of Approval: 20/10/2021 Expiry Date: 20/10/2026

SUNLOCK SOLAR PANEL MOUNTING SYSTEM PLAN

TABLE 1 MAXIMUM FIXING SPACING WHEN RAILS TO BE INSTALLED PARALLEL TO ROOF BATTENS/PURLINS

REGION	TERRAIN CATEGORY	CENTRAL ZONE PU (kPa)	END ZONE PU (kPa)	BATTEN/PURLIN SPACING, 'S' (mm)	RAILS NUMBER TO BE ADOPTED UNDER ONE ARRAY	CENTRAL ZONE FIXING MAX. SPACING (mm)	END ZONE FIXING MAX. SPACING (mm)
C	3	2.76	3.35	600	3	404	329
				750	3	404	329
				900/1200/1500	2	269	220
	2.5	3.35	4.06	600	3	330	270
				750	3	330	270
				900/1200/1500	2	220	180
	2	4.00	4.86	600	3	274	224
				750	3	274	224
				900/1200/1500	2	182	149

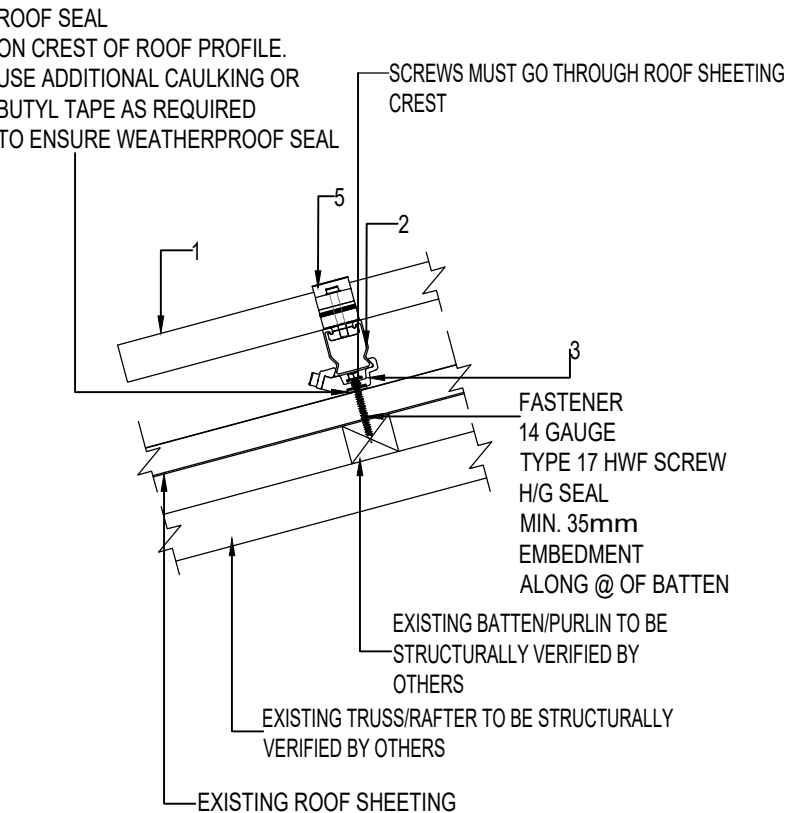
NOTE: WHEN RAILS HAVE TO BE INSTALLED PERPENDICULAR TO ROOF BATTENS/PURLINS, INSTALLER SHALL CONFIRM THAT THE BATTENS/PURLINS SPACING IS NO MORE THAN 600mm AND MINIMUM 4 RAILS SHALL BE ADOPTED UNDER ONE ARRAY OF SOLAR PANELS.

Notes covering basis of DTC (Relevant test reports etc)

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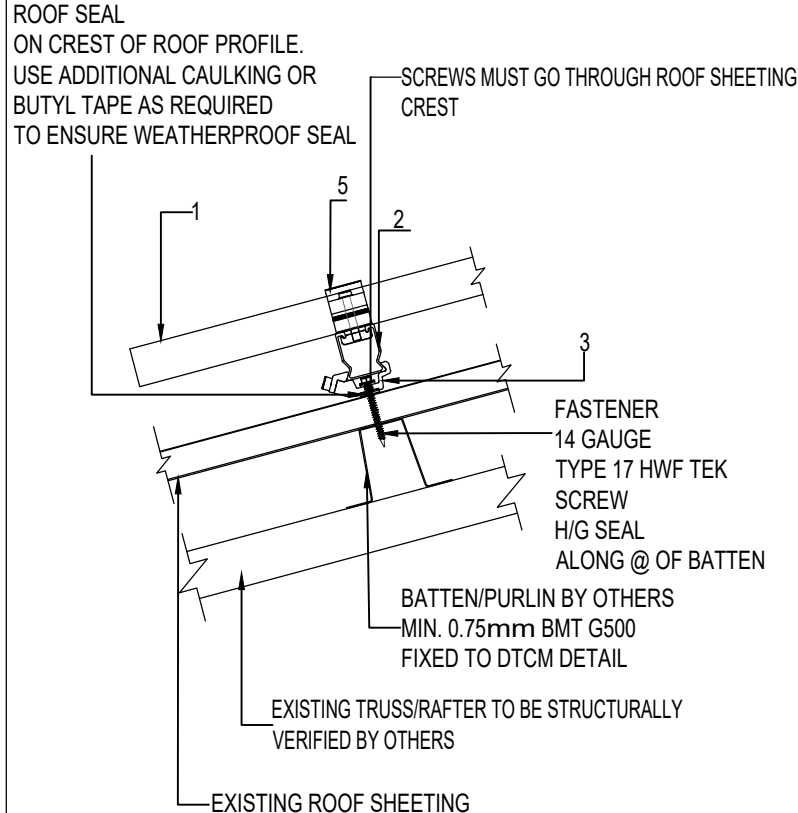
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NT Registration Number: 226837ES
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FASTENING DETAIL
WOOD STRUCTURE, STEEL ROOF SHEET

TIMBER BATTEN/PURLIN FASTENER SELECTION TABLE	
FIXTURE	COMMENTS
14 GAUGE TYPE 17 HWF SCREW H/G SEAL	MINIMUM EMBEDMENT 35mm INTO MGP10 OR F8 HARDWOOD OR BETTER.



FASTENING DETAIL
STEEL STRUCTURE, STEEL ROOF SHEET

METAL BATTEN/PURLIN FASTENER SELECTION TABLE	
FIXTURE	COMMENTS
14 GAUGE TYPE 17 HWF SCREW H/G SEAL	MINIMUM 0.75mm BMT 500 GRADE

Product Name FRAME, CYCLONE MOUNTING SUNLOCK SOLAR PANEL MOUNTING SYSTEM	
Product Description SOLAR MODULE SUPPORT FRAME FIXINGS FOR SHEET METAL ROOF	
Manufacturer's Details SUNLOCK AUSTRALIA PTY LTD	
Design Criteria · CLASS OF BUILDING: CLASS 10 · IMPORTANCE LEVEL 2 · DESIGN LIFE 25 YEARS · ANNUAL PROBABILITY OF EXCEEDANCE 1:500 · WIND REGION C · VR = 69 MS-1 · TERRAIN CATEGORY 2 / 2.5 / 3 · REFERENCE ROOF HEIGHT: 10m · TERRAIN/HEIGHT MULTIPLIER $M_{z,cat} = 1.0 / 0.92 / 0.83$ · TOPOGRAPHIC MULTIPLIER $M_T = 1.0$ (flat) · SHIELDING MULTIPLIER $M_s = 1.0$ · Cfg TO AS1170.2: APPENDIX D6 · THE MINIMUM FIXING CAPACITY IS 0.6kN	
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PP JOB NO. E20100153	SHEET 3 of 3
Accepted for inclusion in Deemed to Comply Manual	
DTCM drawing number: M/263/03	
Chairperson Signature: 	
Chairperson Name: Paul Nowland	
Date of Approval: 20/10/2021 Expiry Date: 20/10/2026	

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