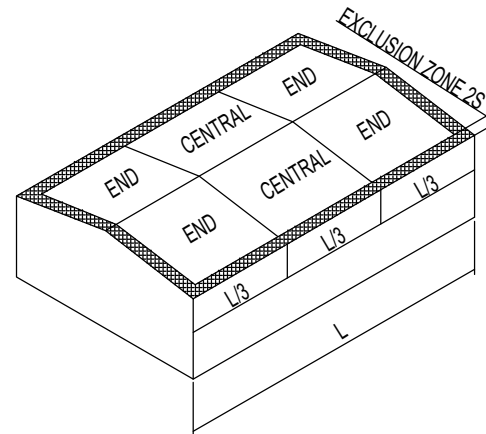
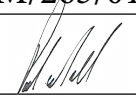


ITEM	DESCRIPTION	PROVIDED BY
1	PV MODULE	INSTALLER
2	SLSCC3 RAIL	SUNLOCK
3	SLCF2 BRACKET	SUNLOCK
4	SLCMC-3040 MIDDLE CLAMP	SUNLOCK
5	SLCEC-3040 END CLAMP	SUNLOCK
6	M8 CAP SCREW	SUNLOCK
7	M8 FLAT WASHER	SUNLOCK
8	ROOF SEALING WASHER	SUNLOCK
9	FASTENER	SUNLOCK



ROOF ZONE FOR PANEL ARRAY

<b>Product Name</b> FRAME, CYCLONE MOUNTING SUNLOCK SOLAR PANEL MOUNTING SYSTEM	
<b>Product Description</b> SOLAR MODULE SUPPORT FRAME FIXINGS FOR SHEET METAL ROOF	
<b>Manufacturer's Details</b> SUNLOCK AUSTRALIA PTY LTD	
<b>Design Criteria</b> <ul style="list-style-type: none"> <li>· CLASS OF BUILDING: CLASS 10</li> <li>· IMPORTANCE LEVEL 2</li> <li>· DESIGN LIFE 25 YEARS</li> <li>· ANNUAL PROBABILITY OF EXCEEDANCE 1:500</li> <li>· WIND REGION C</li> <li>· VR = 69 MS<sup>-1</sup></li> <li>· TERRAIN CATEGORY 2 / 2.5 / 3</li> <li>· REFERENCE ROOF HEIGHT: 10m</li> <li>· TERRAIN/HEIGHT MULTIPLIER M<sub>z,cat</sub> = 1.0 / 0.92 / 0.83</li> <li>· TOPOGRAPHIC MULTIPLIER M<sub>T</sub> = 1.0 (flat)</li> <li>· SHIELDING MULTIPLIER M<sub>s</sub> = 1.0</li> <li>· Cfg TO AS1170.2: APPENDIX D6</li> <li>· THE MINIMUM FIXING CAPACITY IS 0.6kN</li> </ul>	
<b>Limitations</b> <ul style="list-style-type: none"> <li>· MAXIMUM ROOF HEIGHT = 10m</li> <li>· MAXIMUM ROOF PITCH = 30°</li> <li>· SOLAR PANELS ARE TO BE CERTIFIED SEPARATELY</li> <li>· MAXIMUM SOLAR PV MODULE 1670mm x 1000mm</li> <li>· FOR METAL SHEET ROOFS ONLY</li> <li>· THE EXISTING ROOF STRUCTURE SHALL BE CERTIFIED SEPARATELY BY THIRD PARTY ENGINEERS TO ENSURE THE STRUCTURAL ADEQUACY FOR THE PROPOSED PV SYSTEM INSTALLATION</li> <li>· PANELS MUST BE ATTACHED TO ENCLOSED BUILDINGS WITH ASPECT RATIOS h/d ≤ 0.5 AND h/b ≤ 0.5</li> <li>· PANELS MUST BE ATTACHED PARALLEL TO THE ROOF PLANE</li> <li>· PANELS MUST BE INSTALLED LEAVING A GAP OF 50mm TO 300mm BETWEEN THE UNDERSIDE OF THE PANEL AND THE ROOF(S) (NO PITCHED FRAMES)</li> <li>· 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</li> </ul>	
PP JOB NO. E20100153	SHEET 1 of 3
Accepted for inclusion in Deemed to Comply Manual	
DTCM drawing number: <b>M/263/01</b>	
Chairperson Signature: 	
Chairperson Name: <b>Paul Nowland</b>	
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

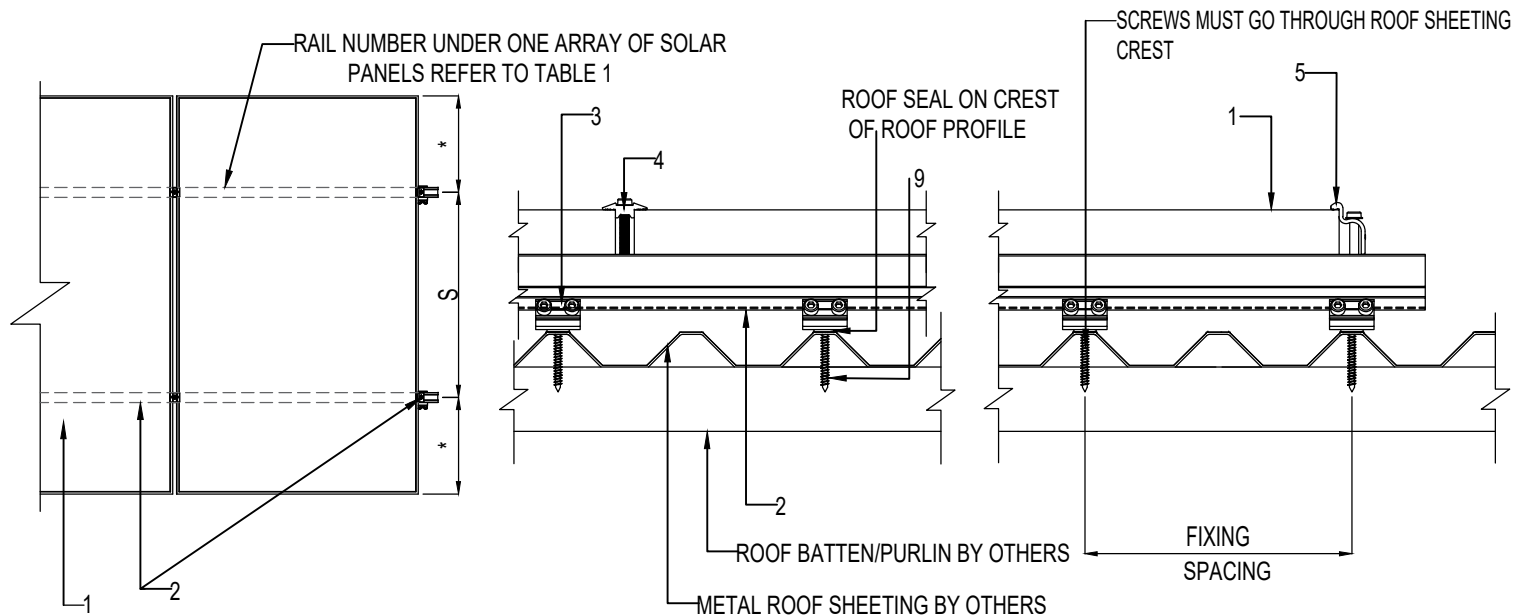
Certifying Engineer

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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- FOR METAL SHEET ROOFS ONLY
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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.

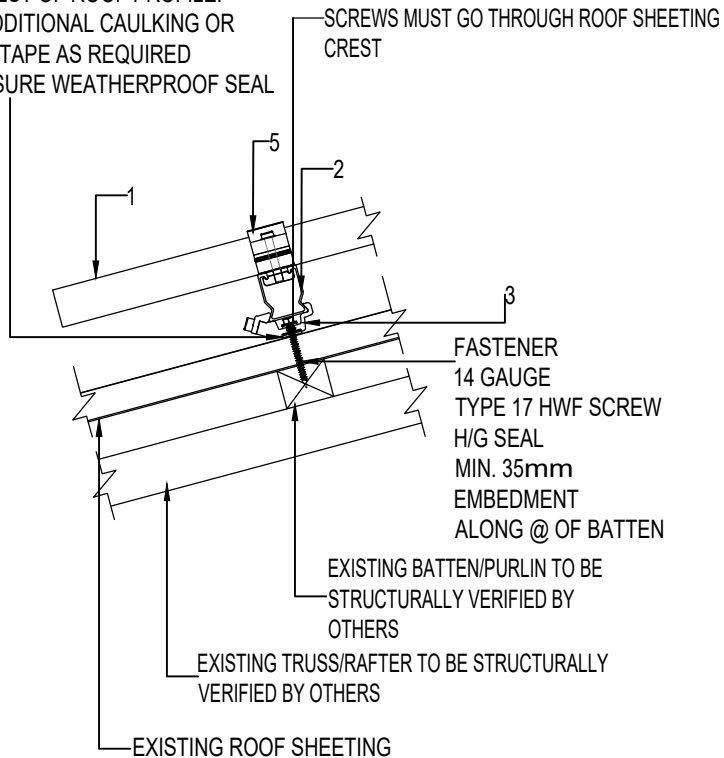
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Checking Engineer  
Name: Zhichao Zhang  
Registration Number: NER 4430964  
Date: 19/10/2021  
Signature:   
Must be an Australian registered structural engineer

Certifying Engineer  
Name: Pinnawala Ariyaratna  
NT Registration Number: 226837ES  
Date: 19/10/2021  
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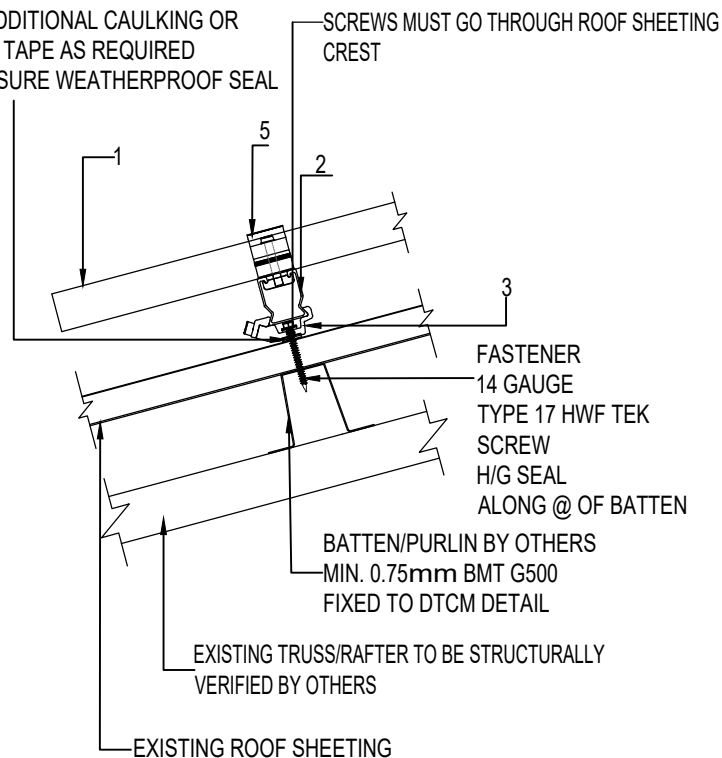
ROOF SEAL  
ON CREST OF ROOF PROFILE.  
USE ADDITIONAL CAULKING OR  
BUTYL TAPE AS REQUIRED  
TO ENSURE WEATHERPROOF SEAL



**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.

ROOF SEAL  
ON CREST OF ROOF PROFILE.  
USE ADDITIONAL CAULKING OR  
BUTYL TAPE AS REQUIRED  
TO ENSURE WEATHERPROOF SEAL



**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

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- ANNUAL PROBABILITY OF EXCEEDANCE 1:500
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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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Must be an Australian registered structural engineer

## Certifying Engineer

Name: **Pinnawala Ariyaratna**

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