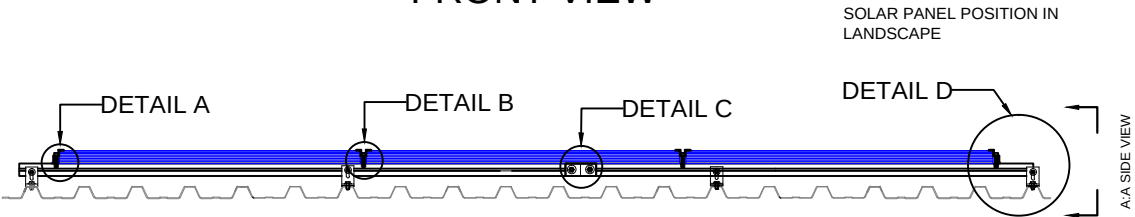


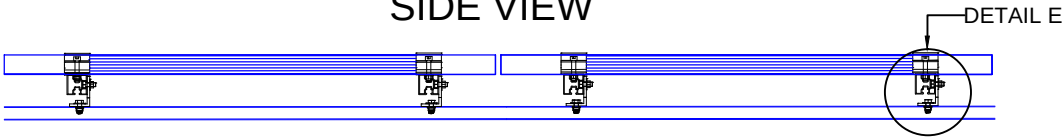
IBR ROOF- FLAT APPLICATION

Across the ribs application

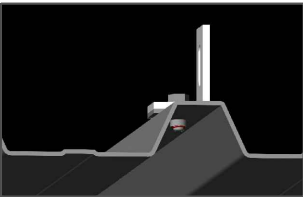
FRONT VIEW



SIDE VIEW

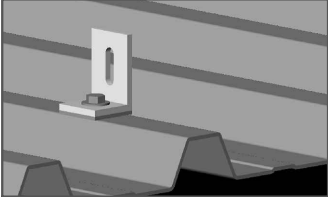


Rivnut fixing and L-Bracket fixing



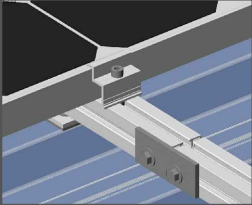
Bottom view

Rivnut and L-bracket fixing

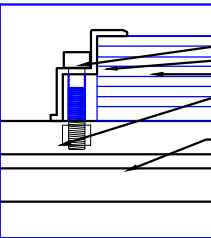


Top view

Join plate connection



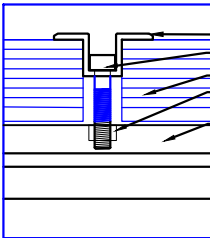
Detail A



(END-CLAMP)Z-BRACKET  
PV-SOLAR PANELS  
M8 CAP-SCREW  
SQUARE-NUT  
(INSIDE 40X40 ALUM.  
PROFILE SLOT)  
40X40 ALUM. PROFILE

End clamp (Z-Bracket)  
holding panels and  
connecting to Aluminum  
profile

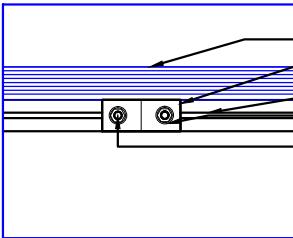
Detail B



MIDDLE CLAMP (U-BRACKET)  
M8 CAP-SCREW  
PV-SOLAR PANELS  
SQUARE-NUT  
(INSIDE 40X40 PROFILE SLOT)  
40X40 ALUM. PROFILE

Middle clamp (U-bracket)  
holding panels and  
connecting to profile

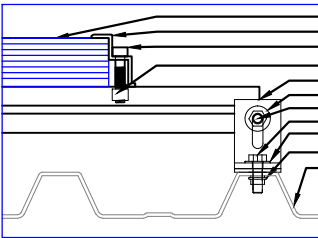
Detail C



PV-SOLAR PANELS  
FLAT PLATE  
(JOINING PIECE)  
40 X 40 ALUM. PROFILE  
FLAT & SPRING WASHER  
M8 X 20MM

TWO 40X40 ALUMINIUM PROFILES  
ACTING AS ONE JOINED  
TOGETHER BY A FLAT PLATE

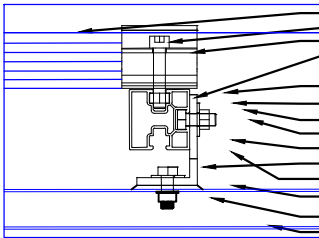
Detail D



PV-SOLAR PANELS  
Z-BRACKET  
M8 CAP-SCREW  
SQUARE-NUT  
L-BRACKET  
FLAT & SPRING WASHER  
M8 X 20 MM BOLT  
FLAT & SPRING WASHER  
RIVET  
IBR-ROOF SHEETING

40X40 ALUMINIUM PROFILE  
SUPPORTING PANEL CONNECTED  
TO ROOF SHEET BY AN L-BRACKET  
(FRONT-VIEW)

Detail E

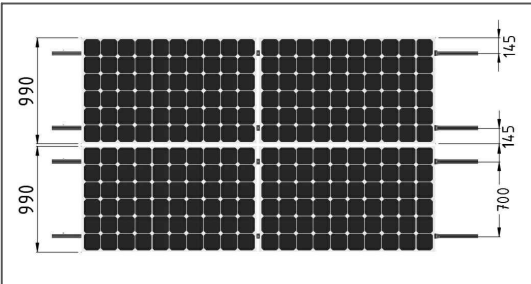


PV-SOLAR PANELS  
M8 CAP-SCREW  
Z-BRACKET  
SQUARE-NUT  
(INSIDE 40 X 40 PROFILE SLOT )  
40 X 40 ALUMINIUM PROFILE  
FLAT AND SPRING WASHER  
HEX-NUT  
M8 X 20 MM BOLT  
L-BRACKET  
M8 X 20 MM BOLT  
FLAT & SPRING WASHER  
RUBBER GASKET  
RIVNUT  
IBR ROOF SHEETING

40X40 ALUMINIUM PROFILE  
SUPPORTING PANEL CONNECTED  
TO ROOF SHEET BY AN L-BRACKET  
(SIDE-VIEW)

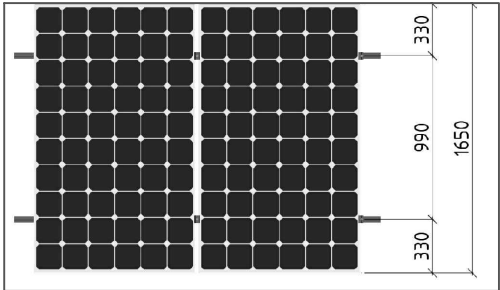
FLAT APPLICATION

Landscape panel orientation



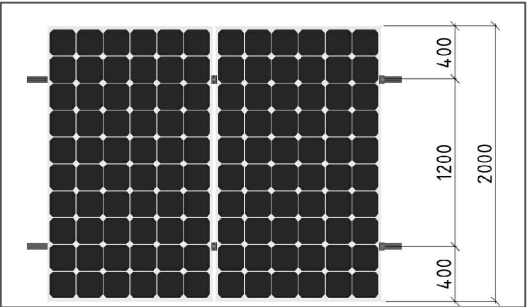
Portrait panel orientation

250W



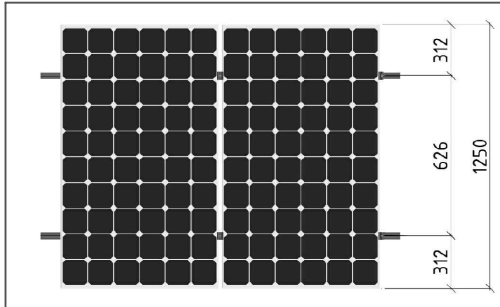
Portrait panel orientation

300 W



Portrait panel orientation

150 W



| REVISIONS | REV | DESCRIPTION | DRAWN DATE | CH'KED DATE | REFERENCE DRG'S | DRAWING No. | DESCRIPTION | CLIENT;                     |          |         |     |                 | DRAWN                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Cosmos.P | <div><br/>SUSTAINABILITY SOLUTIONS<br/>www.valsa.co.za<br/>svilen@valsa.co.za<br/>Tel: 082 358 2903</div> <div></div> |
|-----------|-----|-------------|------------|-------------|-----------------|-------------|-------------|-----------------------------|----------|---------|-----|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |     |             |            |             |                 |             |             | TITLE; IBR FLAT APPLICATION |          |         |     |                 | CHECKED                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Nephat.M |                                                                                                                                                                                                                                                                                                 |
|           |     |             |            |             |                 |             |             |                             |          |         |     |                 | APPROVED                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |                                                                                                                                                                                                                                                                                                 |
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|           |     |             |            |             |                 |             |             | DRG No.                     | 01       | REV No. |     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                                                                                                                                                                                                                                                                                 |