

PV Array Load limits for Euroseam Clamps

The ECZIP Seamclamp was tested with Euroseam sheets at Ceram Research Centre to identify safe working load capacity per clamp when used on Elite Systems employing the Euroseam profile outer sheet for acceptance under Elite System Guarantee. Cap bolts were hand tightened for the tests, a torque setting of 20Nm is recommended for installation. The loads given have been factored both for Safety and to limit potential for damage to the sheet product. Ultimate failure loads are far in excess of those given.

Maximum downward load per clamp = 1.5kN
Maximum upward load per clamp = 1.5kN
Maximum axial load per clamp = 3.5kN
Maximum load across seam per clamp = 2kN

The ECZIP Seamclamp is the only method recommended by Euro Clad Ltd for the non-penetrative attachment of frame based PV Arrays to Euroseam Roof Systems.

Clamps should be used in series to support loadings so that loading is spread on the roof system.

The total load on the roof system, including PV load, should not exceed the maximum load per M² given in the Euroseam Roof Systems BBA Certificate.

PV array suppliers/installers should check all loads are accounted for and are within the limits advised.

Use of the ECZIP Seamclamp and adherence to the above loads ensures that Elite Systems Guarantees are not adversely affected by this method of attachment of PV arrays.

For reference 102Kg is an approximate equivalent to 1kN. Please also refer to Clamp set out drawing details.

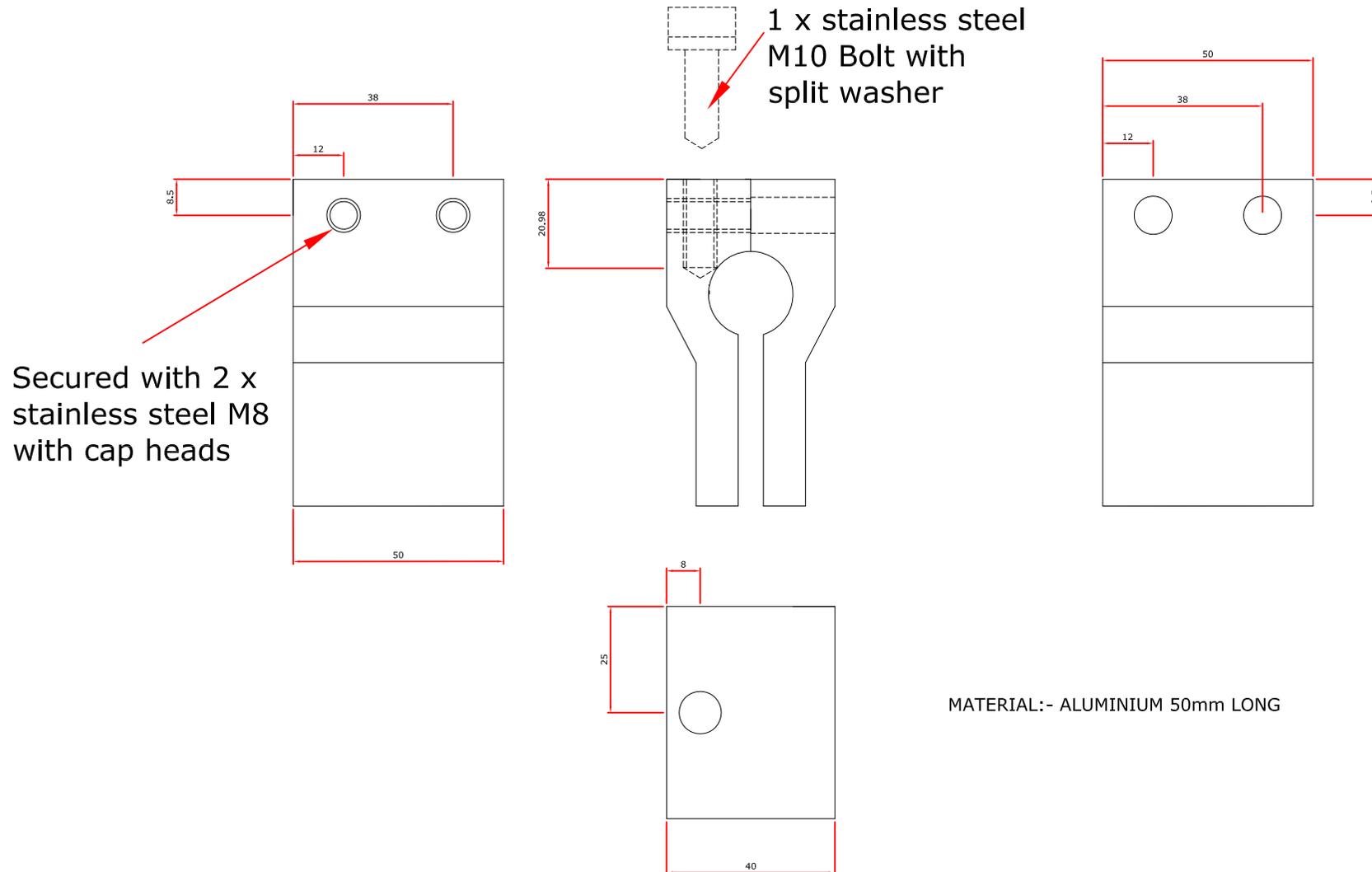
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SEAM CLAMP - ECZIP_SEAMCLAMP

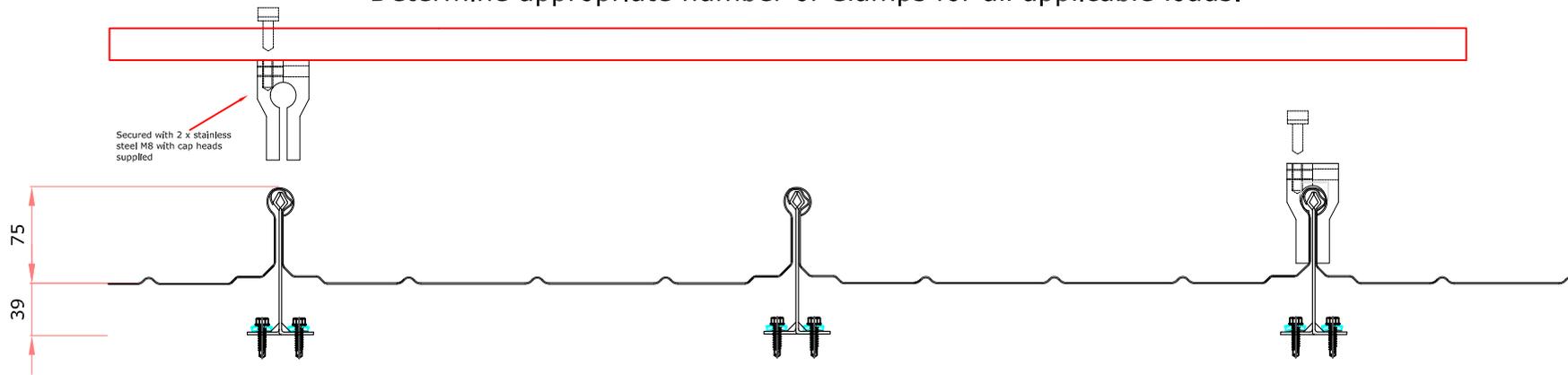
TITLE: Euroseam Universal
Details & Components
DWG NO: ES_EDC1
DRAWN: PCI
CHECK: PCL
DATE: Jan 13
SCALE: NTS

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To be read in conjunction with Elite System specification documents



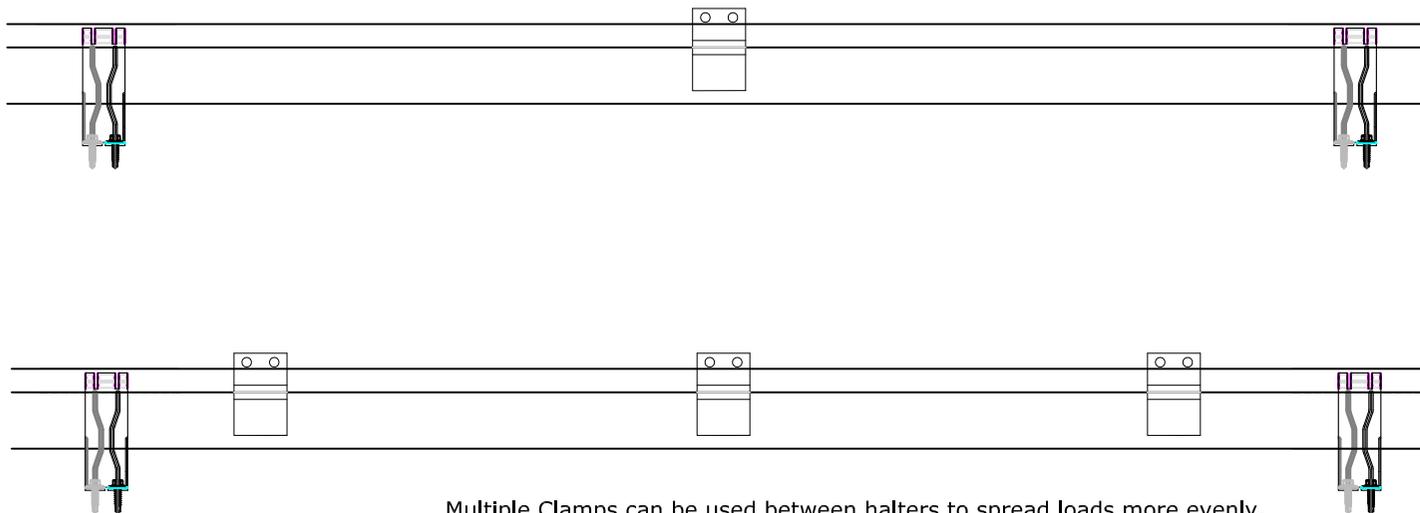
Most applications require attachment of a rail via Clamps to minimum of 2 ribs.
Consult with Euroclad for allowable loads per clamp.
Determine appropriate number of Clamps for all applicable loads.



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documents



Multiple Clamps can be used between halters to spread loads more evenly.

See Component drawing
for detail of Clamp.