

SM:/GA7142.004

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TO WHOM IT MAY CONCERN

STONECLIP.COM “SUPPORT CLIP”

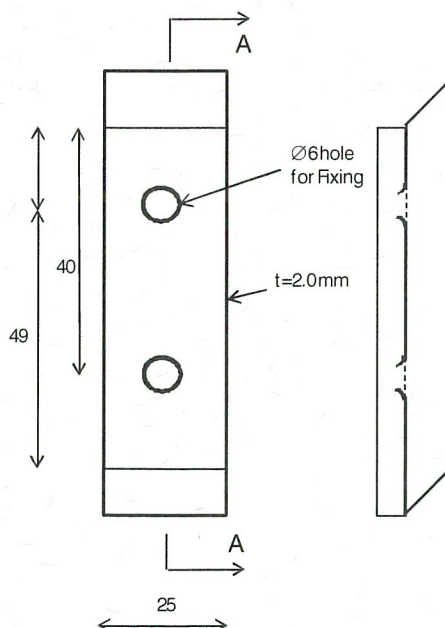
This is to certify that Sheehy & Partners have checked the design of the mechanical fixing known as “Support Clip”. The Support Clip parameters and design capacities are summarised below. The limit state loading on the fixings to connect the Support Clip to the substrate are also provided on the following pages.

DESIGN ASSUMPTIONS

The design has been based on the following:

- Support Clip samples provided to this office.
- All components of the clip have been designed in accordance with AS 4673:2001- “Cold-Formed Stainless Steel Structures”, other relevant codes, and in accordance with widely accepted engineering principles.
- The load factor applied to Panel Dead Loads is 1.35 in accordance with AS1170.0:2002 “Structural Design Actions”.
- Where Support Clips are to resist lateral loads they have been designed for a strength limit state pressure of 2.53 kPa. For lateral wind loadings this is equivalent to buildings in wind region B and terrain category 2 and for a maximum cladding height of 10 m in accordance with AS1170-2:2002 “Structural Design Actions - Wind actions”.

SUPPORT CLIP GEOMETRY



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SUPPORT CLIP DESIGN CAPACITY .

The following table is for the Support Clip carrying vertical loading and lateral loading. Each Clip is fixed with one countersunk 14 gauge screw through one of the two holes in the Clip plate. Fixings are to be selected in accordance with fixing manufacturer's documentation.

Max Vertical Load per Clip [kg]	Max Wind Area #) [m ²]	Fixing loading	
		Shear *) [kN]	Tension *) [kN]
25 ^)	0.25 ^)	0.35	0.70

#) The wind area is the maximum area that one Support Clip can resist based on the design wind pressure of 2.53 kPa, as noted in the design assumptions. For other wind loading situations engineered solutions based on the above tension capacity may provide increased/reduced wind areas.

*) Limit State Load

^) Subject to fixing hole pull through capacity testing

CERTIFICATION

The pull through capacity of the hole in the clip for the screw has yet to be determined through load testing and the pull through capacity of the hole is therefore not part of this certification.

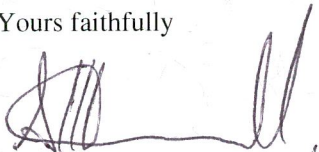
If the Support Clip installation is completed in accordance with the above design, the Stoneclip.com specifications and sound building practice, and provided that load testing can prove that the tension capacity of the hole is adequate, then the "Support Clip" mechanical fixing is considered to be structurally adequate.

This certificate does not cover the strength of the Tile Panel or the transfer of load from the Tile Panel to the Support Clip.

The certificate does not cover the fixing or the substrate to which the clip is attached. Proprietary fixings to the substrate are to be selected based on the strength limit state loading given in the above table and based on the design capacities provided by the manufacturer of the fixing.

The undersigned is a Registered Practising Engineer in Queensland (RPEQ No. 8023)

Yours faithfully



S McDonald
for and on behalf of
SHEEHY & PARTNERS PTY LTD
Consulting Engineers