

ECOLITE AG, CH-8633 Wolfhausen, Switzerland

MATERIAL SAFETY DATA SHEET (MSDS)**Section 1: Product and Company Identification****Product / Trade Names:** ECOLITE THERMAL CLIPS ©**Material:** Combination of aluminium and GFRP (mechanically connected)**Brand:** ECOLITE ©**Supplier:** Most Defined Building Products
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Manufacturer: Ecolite AG
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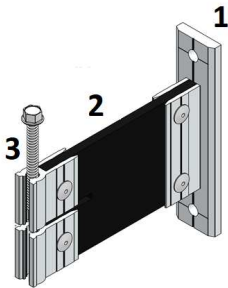
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Application: The above product is designed for thermally broken façade attachments.

Section 2: Composition and Information on ingredients

Properties:



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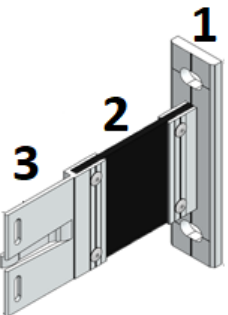
Thermo H-Clip

1 **Either** base for mounting on steel studs (underlay), aluminum alloy ALAG 18 VITRAL-045.61 (warm cured), mounting plate: 26 mm x 110 mm x 7 mm.

Or base for mounting on concrete (underlay), aluminum alloy ALAG 18 VITRAL-045.61 (warm cured), mounting plate: 40 mm x 160 mm x 8 mm.

2 GFRP-strut, (material: epoxy resin with glass reinforced laminate) riveted to base (stainless steel rivets), color = black, bending strength = 350 MPa, tensile strength = 240 MPa, density = 2 gr./cm³, thickness = 5mm, height = 60 mm, length = depending on application, no mutation over time, no fading or discoloration. No offgassing, nontoxic nor polluting and no smoke formation.

3 Head for horizontal alu-channel (slot to slide in channel), aluminum alloy ALAG 18 VITRAL-045.61 (warm cured), riveted onto GFRP-strut (stainless steel rivets), incl. premounted, selfdrilling stainless steel screw for fixation of horizontal alu-channel (tip = galvanized steel (drilling part))



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Thermo V-Clip

1 and 2 as above (but different 3)

3 Head for vertical alu-channel (finger to hold vertical channel during installation before fixing), aluminum alloy ALAG 18 VITRAL-045.61 (warm cured), riveted to GFRP-strut (stainless steel rivets). Different types; (fix points / sliding points / combination)

Section 3: Hazardous Ingredients

Description of Hazard: The finished product does not present any particular hazard to human beings. It is not a hazardous product and is therefore not subject to any labelling requirements.

Section 4: First Aid Measures

General directions: No special regulations for this product.

Section 5: Fire Fighting Measures

Suitable extinguishing media: The product does not burn, it is neither flammable nor explosive.

Extinguishing media unsuitable for safety reason: Not applicable

Section 6: Accidental Release Measures

Personal precautions: No special precautions are necessary. Avoid using materials and products that are incompatible with the product.

Section 7: Handling and Storing

Handling

Direction for safe use: Personal protection in section 8. No special requirements or measures necessary.

Storing

Directions for storage: Not applicable

Section 8: Exposure Control and Personal Protection

Personal protection

Respiratory protection: not applicable

Hand protection: Work gloves from leather are recommended to be worn for installing.

Eye protection: not applicable

Section 9: Physical and Chemical Properties

Appearance:	Solid brackets
dimensions:	varying dimensions according to application example; 160 mm x 40 mm x 110 mm)
Colour:	Base and head; aluminum, GFRP strut; black
Weight:	Varying weight according to application example 250 gr. / clip
Melting Point:	Not Relevant
Flash Point:	Not Relevant
Fire Rating	GFRP; V0 / V1
Volatility:	Not Relevant
Solubility in Water:	Not Relevant
Evaporation Rate:	Not Applicable
Autoignition Temp.:	Not Relevant

Section 10: Stability and Reactivity

Stability:	stable under ordinary conditions.
Conditions to avoid:	not applicable.

Section 11: Toxicological Information

Effect on people:	The product is not toxic. There are no specific health hazards.
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Section 12: Ecological Information

Thermal conductivity:	0,3 W/mK,
Recyclable:	Aluminum parts (ca. 75% of volume) can be attributed to the material circulation

Section 13: Disposal Consideration

Various:	No waste on job site.
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Section 14: Transport Information

Dangerous Good Class:	None Allocated:
Hazchem Code	None Allocate
Poisons Schedule:	None Allocated
Packing Group:	Not Applicable
Label:	Not a DOT hazardous material. Local regulations may apply.
Method of packaging:	card board boxes

Section 15: Regulatory Information

DOT Hazard labelling and classification: The product is not subject to labelling and classification.

Section 16: Other relevant Information

The information contained in this MSDS reflects our current basis of knowledge and the current EEC and national laws. However, the users working conditions are beyond our knowledge and control. The product must not be used for any purpose other than that specified in section 1 without written consent. The user is responsible for ensuring compliance with all necessary statutory provisions. The information in this MSDS describes the safety requirements of our product. The Company makes no representations, guarantees or warranties, either express or implied warranties as to the fitness of the product for use, and assume no liability related to the information contained above.

ECOLITE AG requires, as a condition of use of its product, that purchasers comply with all applicable Federal, State, and Local health and safety laws, regulations, orders, requirements, and strictly adhere to all instructions and warnings accompany the product.

Issuing MSDS:

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