

# Soleo 6037



WHS: Wood hybrid system  
Datasheet

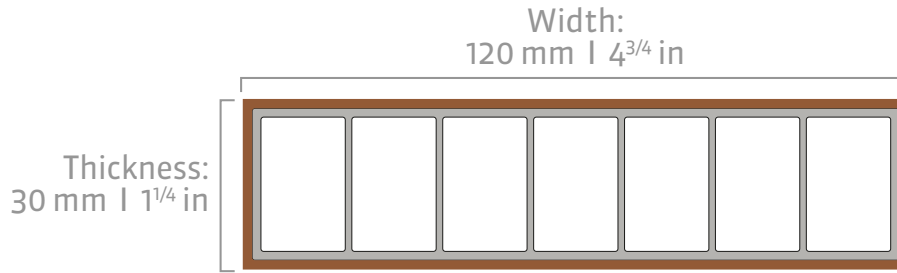


# Soleo 6037

WHS: Wood hybrid system



Architectural Eco-Technology



Section tolerances in mm: +0.5 / -2.0  
in some cases the sanding of the WPC skin might create profiles exceeding these nominal dimensions

**Fire rating:** Can be set on request and following various requirements and norms. For more information check our online general catalogue page 36

**Surfaces finish:** sanded, other finishes available on request. For more information check our website [www.geolam.com](http://www.geolam.com)

**Profiles fastening and installation:** check our website [www.geolam.com](http://www.geolam.com) – Section Documentation

**Standard length:** 3.0 m | 9 ft 10 in

**On order any length from:** 2.45 m | 8 ft to 5.8 m | 19 ft

**Weight:** 2.23 kg/lm | 1.40 lb / ft

**Secondary moment Ix (cm<sup>4</sup>):** 7.6

**Secondary moment Iy (cm<sup>4</sup>):** 16.5

**Section modulus Zx (cm<sup>3</sup>):** 5.5

**Section modulus Zy (cm<sup>3</sup>):** 14.2

**Core in anodized aluminum alloy:** A6063S-T5

**Coefficient of Thermal Expansion (20-100°C):**  
23.4 µm/m/°C

**Modulus of Elasticity:** 68.6 GPa

**Tensile Strength:** 186 Mpa min

**Core cross section (mm<sup>2</sup>):** 631.37



Limba



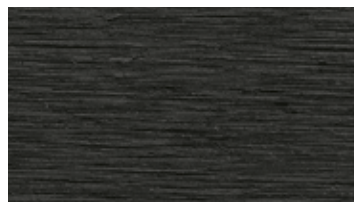
Rosewood



Wenge



Teak



Blackwood



Ramin - Color by request

## Accessories available

END CAPS		CONNECTORS	
ASA resin	WPC	Straight (180°)	Corner (90°)

# Corner and straight connectors

These cleverly designed splices are inserted into the interior of the hybrid profiles. They allow for the assembly of profiles by ensuring proper alignment or to create a perfectly finished 90° angle.



The end caps **have to be glued** to the profile. The end caps have four openings to allow for weeping of condensation – these must not be blocked or closed up. For a perfect aesthetic, wood composite end caps (WPC) can be adapted in size to the profile or showcased by an appropriate additional sanding by hand.

End caps **must be glued** to the WHS profile.

Use glue like **Sikaflex**<sup>®</sup> : Crystal Clear or **3M**<sup>®</sup> : DP-8010 :

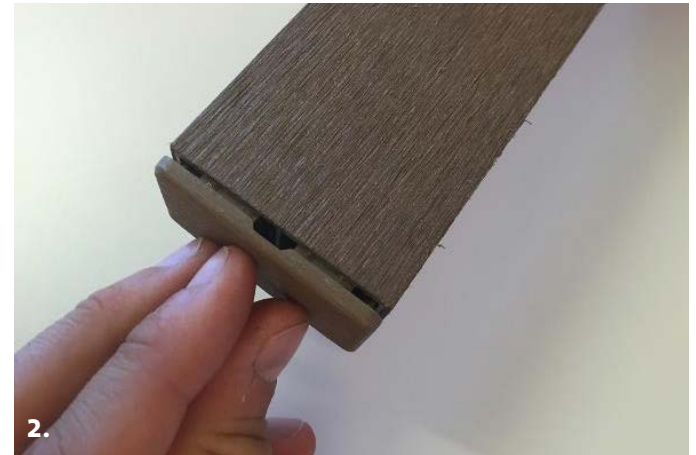
- Designed to glue plastic (PP and PE) with Aluminum
- Moisture resistant
- Made for extreme temperature fluctuations (-30°C to +75°C)
- Transparent



## Fix the end cap by following the 4 steps below



1. Ensure that the surfaces of the clip and the aluminum are clean. Apply one drop of recommended glue to fins on each side of the end cap.



2. Insert the cap into the end of the WHS profile and verify that NO adhesive has come out on the sides. If so, clean quickly.



3. Press on the end cap with fingers and hold for about 5 seconds. Make sure that there is no gap between the WHS profile and the end cap.



4. The end cap is fixed.