



# Soleo 6023



**5 <sup>3</sup>/<sub>4</sub> in x 1 <sup>1</sup>/<sub>4</sub> in or 145 mm x 30 mm**

Technical datasheet



# Soleo 6023

WHS: Wood hybrid system

# Geolam®

Architectural Eco-Technology



Section tolerances in mm: +/- 2.0 mm or +/- 3/32 in

The outer wpc layer is sanded. The provided dimensions are average thickness (as well for all drawing in that document)

#### Fire rating:

#### On request:

ASTM E-84 class A

Euroclass NF EN 135011 : B, s3-d0

Euroclass NF EN 135011 : A2, s3-d0

NFP 92 -507 : M2 or M1

#### Surfaces finish: Sanded

Other surface textures available on request. Sanding finish and/or shading may vary between runs. WPC thickness may vary in compliance with flame test requirements.

**Profiles fastening and installation:** Check our website [www.geolam.com](http://www.geolam.com)

Technical information may change without warning.

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

**On order any length from:** 7 ft to 19 ft 8 in | 2.15 m to 6 m

**Weight:** 1.01 lb/ft | 1.50 kg/m

**Secondary moment Ix (cm<sup>4</sup>):** 7.72

**Secondary moment Iy (cm<sup>4</sup>):** 101.01

**Section modulus Z+x (cm<sup>3</sup>):** 5.59

**Section modulus Z-x (cm<sup>3</sup>):** 5.14

**Section modulus Z+y (cm<sup>3</sup>):** 14.05

**Section modulus Z-y (cm<sup>3</sup>):** 14.05

**Core in anodized aluminum alloy:** A6063S-T5 Serie 6000

**Coefficient of Thermal Expansion (20-100°C):**

23.4 µm/m/°C

**Modulus of Elasticity:** 68.9 GPa

**Max Tensile Strength:** 186 Mpa

#### Carbon Footprint:

**WPC :** 1.54 kg CO<sub>2</sub> /Kg WPC

**Alu :** 0.87 kg CO<sub>2</sub> /Kg Alu



Teak



Limba



Rosewood



Wenge



Bilinga



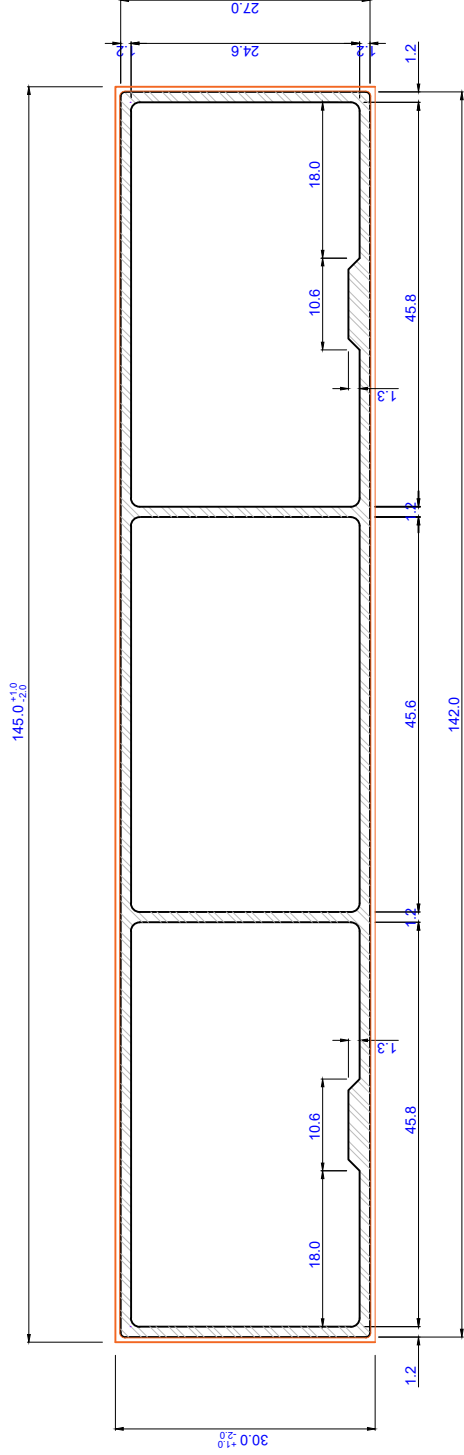
Carbon



Ivory



Any color on request



| Technical specifications, dimensions in mm            |        |                                                  |       | Wood hybrid system WHS                                                                                                                                      | Type 1.0 |
|-------------------------------------------------------|--------|--------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Weight (kg/ml)                                        | 1.50   | Cross section coefficient Z+x (cm <sup>3</sup> ) | 5.59  | <b>Soleo 6023</b><br> <a href="http://www.geolam.com">www.geolam.com</a> |          |
| Cross section, secondary moment Ix (cm <sup>4</sup> ) | 7.72   | Cross section coefficient Z-x (cm <sup>3</sup> ) | 5.14  |                                                                                                                                                             |          |
| Cross section, secondary moment Iy (cm <sup>4</sup> ) | 101.01 | Cross section coefficient Z+y (cm <sup>3</sup> ) | 14.05 |                                                                                                                                                             |          |
|                                                       |        | Cross section coefficient Z-y (cm <sup>3</sup> ) | 14.05 |                                                                                                                                                             |          |