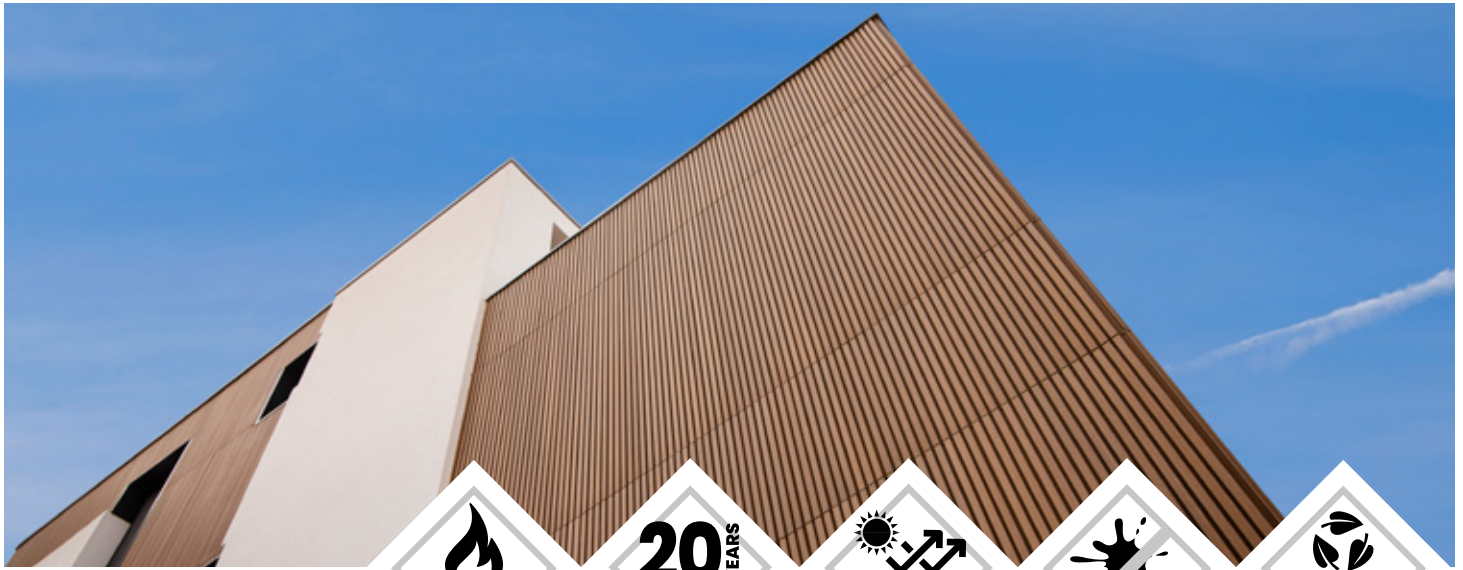
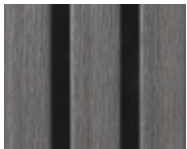


# WEO<sup>®</sup> 35 (E CLASS)



**DARK GREY**



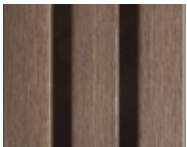
**LIGHT GREY**



**TEAK**



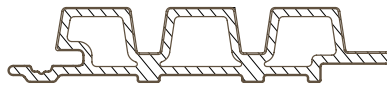
**IPE**



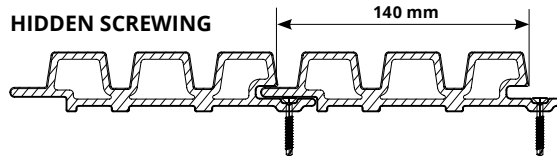
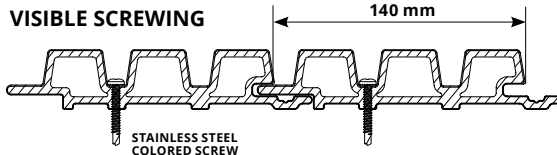
**CEDAR**



**EBONY BLACK**



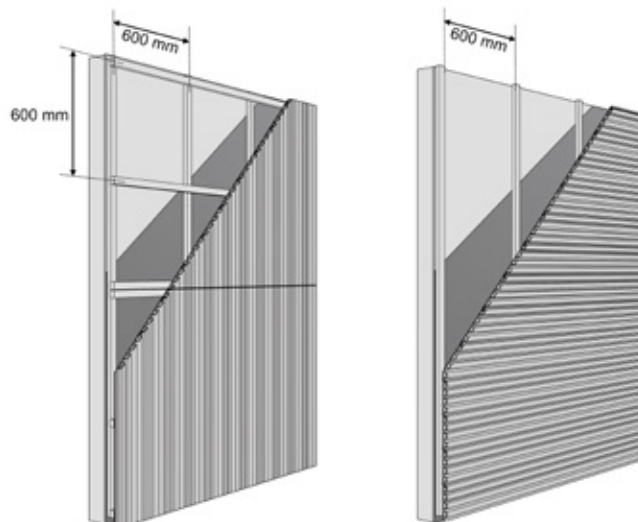
33 x 170mm x L 2.90m / 3.90m



**COLORED STAINLESS STEEL SCREWS A2 TORX 4.2 X 38 MM**  
100 units per box + bit  
Pan Head  
1 box = 8m<sup>2</sup>  
(Visible screwing)



**STAINLESS STEEL SCREWS A2 TORX 4.2 X 32 MM**  
200 units per box + bit  
Flat head  
1 box = 16m<sup>2</sup>  
(Invisible screwing)



# WEO<sup>®</sup> 35 (E CLASS)

## Cladding applications

Fire Class E

Wall cladding systems / Garden wall decoration\*

*\*(In compliance with local building regulations)*

	Length 2.9m/Pcs	Length 3.9m/Pcs
Coverage per board	0.406 m <sup>2</sup>	0.546 m <sup>2</sup>
Weight per sq/m	15 kg/m <sup>2</sup>	15 kg/m <sup>2</sup>

	Standard screwing	Edges and finishing
Horizontal installation	Screw 4.2 x 38 mm Screw 4.2 x 32mm	Screw 4.2 x 38 mm
Vertical installation	Screw 4.2 x 32 mm	Screw 4.2 x 38 mm

	Requirements
Cladding subframe	Wooden or aluminium battens in compliance with local building regulations and our guidelines
Seismic	Seismicity zone ≤ 4
Impact resistance	<b>Q4</b> ( NF P 08-301 / NF P 08-302 ) Ensure impact resistance of hard and soft objects ( scale Q1 < Q4 )
Wind loads resistance	<b>2 967 Pa</b> (including safety factor of 3.5) Eurocode 1 (EN 1991-1-4)
Aging effects on color	Delta E = 1.14 Delta E = 3 (Ebony Black) EN 15534-5:2014 EN ISO 18314-1
Durability standards for composite wood	EN 15534-5 (Class 3 for outdoor use)
Edges requirements	Aluminium sheet - Standard NF EN 1396 Steel sheet - Standard NF EN 10326 Incl. pre-lacquering - Standard NF P34-301 Corrosion protection - Standard NF P24-351

# WEO<sup>®</sup> 35 (E CLASS)

PROPERTY	TEST METHOD	TEST RESULTS	NOTES / REQUIREMENTS
Composition ( Class E )	-	HDPE = 44% Wood powder = 45% Additives = 11%	-
Density	EN 15534-1	1.27 g/cm <sup>3</sup>	-
Linear mass	EN 15534-1	2.3 Kg/m	-
Deviation from Straightness	EN 15534-1	≤ 1 mm	-
Cupping	EN 15534-1	≤ 0.5 mm	-
Maximum load	EN 15534-1	2818 N	Span : 600 mm
Deflection at 250 N	EN 15534-1	1.27 mm	Span : 600 mm ≤ 5 mm (EN 15534-5)
Modulus of elasticity	EN 15534-1. Annex A	3619 MPa	Span : 600 mm Bending test on finished product at normal condition 20°C and 65% RH
Bending strength	EN 15534-1. Annex A	34.1 MPa	
Resistance to indentation (Brinell Hardness)	EN 15534-1	Brinell hardness : 50.12 MPa Rate of elastic recovery: ???	Applied load : 2000N
Resistance to artificial weathering	EN 15534-1	ΔL* = -1.29 Δa* = 0.09 Δb* = -0.08 ΔE = 1.14	2000 hours. ISO 4892-2 cycle 1
Swelling and water absorption (28 days)	EN 15534-1 EN 317	Swelling: 0.29 % in thickness 0.09 % in width 0.21 % in length Water absorption in weight : 2.29 %	Swelling: ≤ 10 % in thickness ≤ 1.5 % in width ≤ 0.6 % in length (EN 15534-5)  Water absorption in weight ≤ 8 % (EN 15534-5)
Boiling test	EN 15534-1 EN 1087-1	Water absorption in weight = 1.39 %	Water absorption in weight ≤ 7 % (EN 15534-5)
Falling mass impact resistance	EN 15534-1	No crack	Striker weight : 500 ± 2 g Falling distance : 1000 ± 5 mm Maximum 1 crack for 10 test specimens. (EN 15534-5)
Heat reversion	EN 15534-1 EN 479	-0.02%	100°C - 1 hour
Linear thermal expansion coefficient	EN 15534-1	46.2 10 <sup>-6</sup> K <sup>-1</sup>	≤ 50.0 10 <sup>-6</sup> K <sup>-1</sup> (EN 15534-5)
Reaction to fire	EN ISO 11925-2 EN 13823 + A1	Class E	FIGRA ≤ 750 w/s ( EN 13823 + A1 / EN ISO 119252 )  FS ≤ 150 mm within 20 s. (EN13501-1)
Creep behavior	EN 15534-4	ΔS = 7.35 mm	Span 600mm