Geolam®

Architectural Eco-Technology

PREMIUM WOOD HYBRID & COMPOSITES

CONTENTS

◈ Hybrid Wood System

◆ Composite wood boards - Double layer technology

GEOLAM

The inventor of wood composite is 50 years of expertise

1975 **Composite wood invented in Japan.**

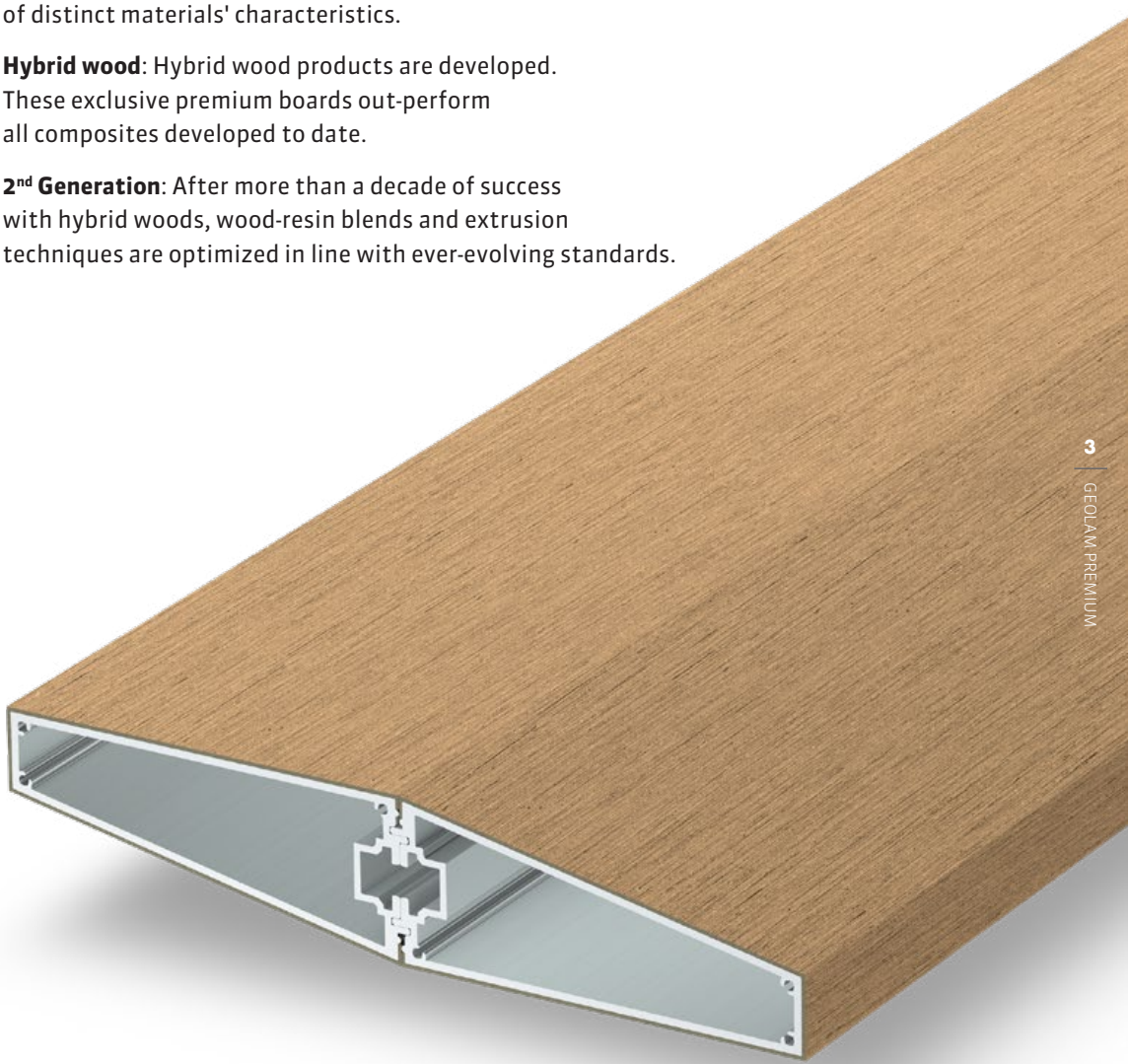
1982 **First international patent**: The world discovers composite wood as the product is commercialized.

1992 **Foam technology is developed**: lighter and stronger, it outclasses solid composite boards.

2002 **Co-extrusion** or how to take advantage of distinct materials' characteristics.

2008 **Hybrid wood**: Hybrid wood products are developed. These exclusive premium boards out-perform all composites developed to date.

2020 **2nd Generation**: After more than a decade of success with hybrid woods, wood-resin blends and extrusion techniques are optimized in line with ever-evolving standards.



Hybrid profile Diameo 2023 teak

THE SHOCK

Geolam Premium wood composites
are the modern alternative
to tropical hardwoods.

Geolam was built on a sound philosophy. Over 50 years ago, Sadao Nishibori, a dealer in tropical timber from Japan, invented an entirely innovative wood composite. He found his inspiration on a trip through the forests of Indonesia, where he had seen at first hand the consequences of widespread and uncontrolled deforestation. For a cultured, educated and sensitive man, raised in the Shinto tradition with a profound respect for nature, it was a shock. Sadao Nishibori subsequently dedicated himself to the invention of a tropical wood substitute, more respectful of the environment: the wood composite.

The qualities of rare tropical hardwoods served as a standard in developing the Geolam wood composite. He took recycled softwood and recycled polymer resin (polypropylene) to create a material that can now look back on four decades of refinement and whose defining features include a natural wood look coupled with outstanding durability. This was the dawn of the 'wood-polymer composite' (WPC), a material inspired by nature and returning the favour by its low carbon footprint.

Residence Althea
Architect : Laisné Roussel / Dream

Velizy,
France

2020	Profile type: **Soleo 6004** ◈	Colour: **Teak**

THE ALTERNATIVE

Geolam's Wood Hybrid System (WHS) façades are more sustainable than tropical hardwood or composite wood façades.

Architects often specify wood when designing façades, as well as other architectural features such as latticework, blinds, trellises, awnings, shelters or pergolas. Designers appreciate the advantages of exotic wood for both open and closed structures, both for its aesthetics as well as its functionality (coziness, sun protection, insulation).

The Geolam Premium wood hybrid system (WHS) profiles combine wood composite with aluminum. WHS profiles offer an eco-friendly alternative to exotic wood architectural components.

Geolam Premium hybrid profiles offer significant advantages compared to exotic woods: they are maintenance free and respect the environment. In addition, the Geolam wood hybrid system (WHS) is superior to the wood plastic composite (WPC): the boards are more durable, more sustainable and can be easily integrated in harmonious ways in all type of façades.

Geolam offers wood lovers the opportunity to live in perfect harmony with nature.

Hybrid profile Soleo 6014 teak

PREMIUM

Breeding excellence, from design to installation.

Geolam is the world's premium brand of wood-plastic composite (WPC). This comes about by embracing premium raw materials, premium technologies and premium manufacturing processes. Geolam has lead the world in innovation of wood - plastic composites and holds a large number of patents for both products and processes.

Geolam WPC were developed by engineers applying the highest standards for users who insisted upon the most stringent demands. This perspective has led to many innovative and unique solutions.

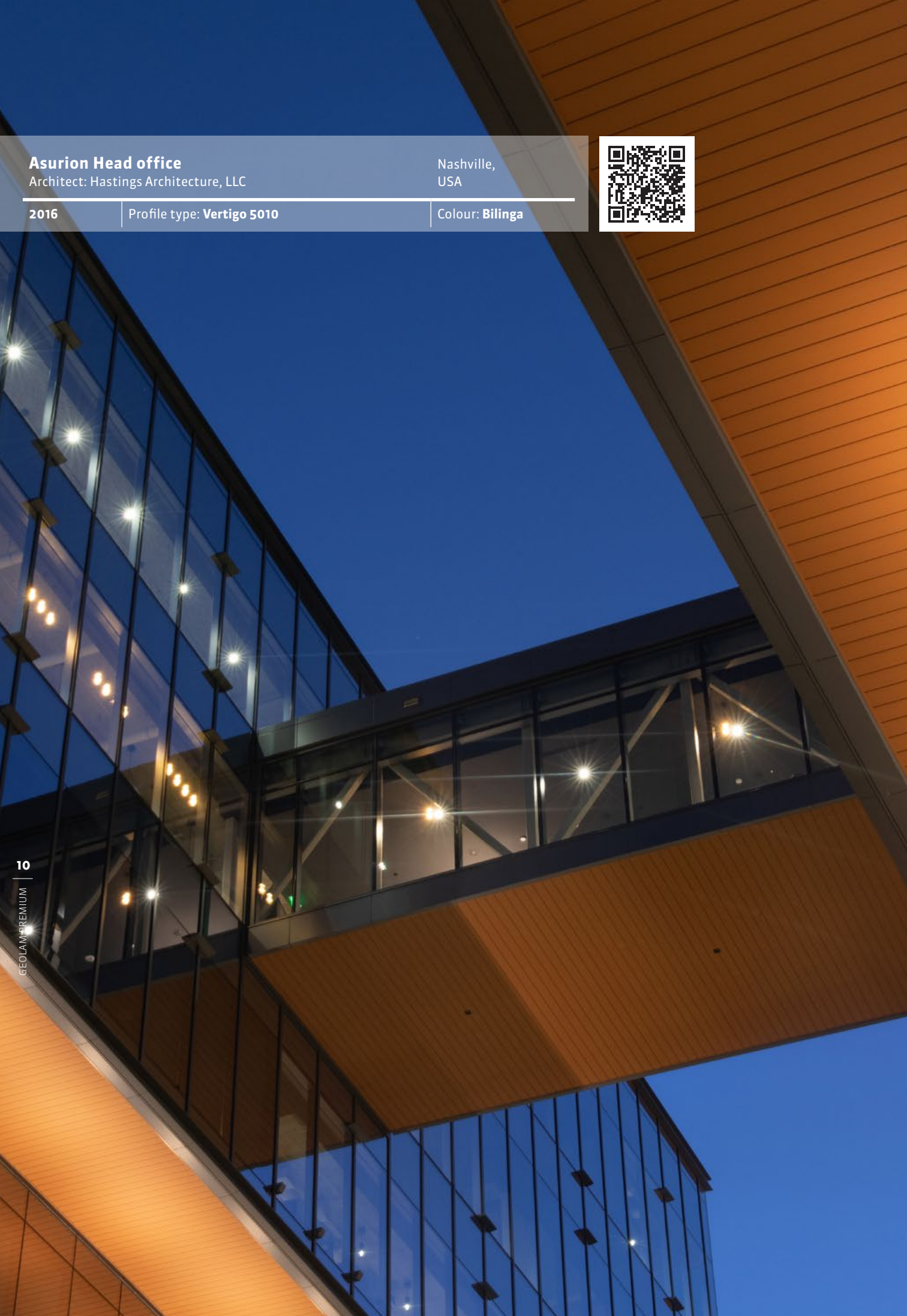
And what makes Geolam's premium standard so special, is the extraordinary natural look and technical superiority that has won the hearts of both architects and designers in evoking a sense of exclusiveness and serenity and helping to achieve their design objectives.

Hybrid profile Planeo 4124 teak

Ibiza Gran Hotel
Architect: Colmenares Vilata Arquitectos

Ibiza,
Spain

2018	Profile type: **Soleo 6031** ◈	Colour: **Teak**



Asurion Head office
Architect: Hastings Architecture, LLC

Nashville,
USA

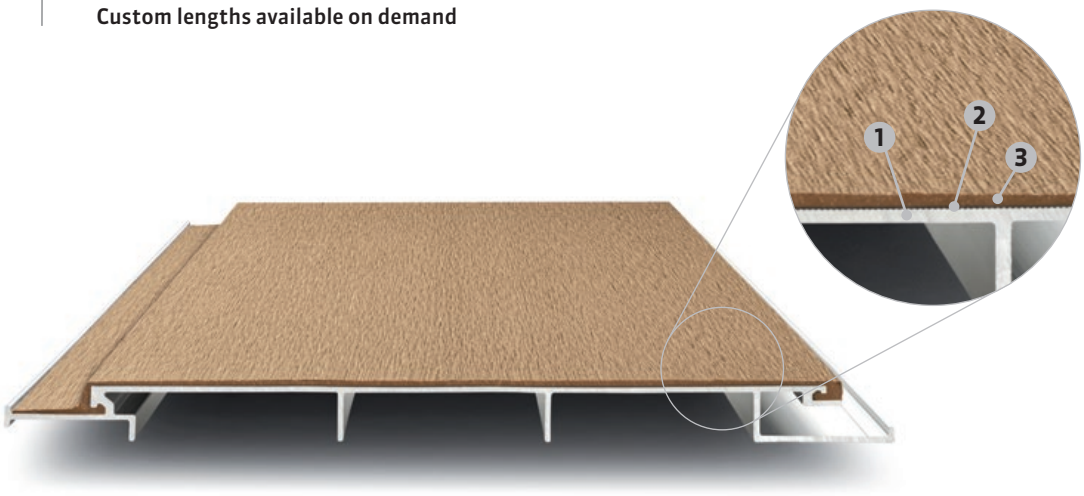
2016 | Profile type: **Vertigo 5010** | Colour: **Bilinga**

High-tech

WHS HYBRID TECHNOLOGY

Leading edge, a flair for engineering.

EASY IMPLEMENTATION, SIMILAR TO ALUMINUM PROFILES
Standard length for all types: 3000 mm | 9 ft 10 in
Custom lengths available on demand



As the first and only provider, Geolam offered its Wood Hybrid Systems (WHS) for façades, decks and roofs to the global marketplace in 2012. These WHS profiles are the result of an innovative hybrid technology, which enables heterogeneous materials to be successfully extruded together under heat.

Three layers of different materials undergo our patented triple extrusion process. Light, stable aluminum makes up the core. The connecting intermediate layer is made of a copolymer resin. The protective layer, lends the profiles the characteristics of tropical wood. This innovative combination of materials gives our profiles exceptionally superior features. They are three times lighter, four times more stable and eight times more rigid than WPC profiles. In addition, one single Geolam WHS profile can be bent to different radii and in different directions. Wood, on the other hand, has to be bent in the direction of the fibre only.

1. RECYCLED ALUMINUM (6063T5)

As the core of the material, aluminum gives lightness and stability. The light metal allows safe and grid-free mounting options, which significantly expands the span between 2 points of attachment.

2. COPOLYMER RESIN

In the triple extrusion process, the intermediate layer of copolymer resin inseparably merges the aluminum core with the outer layer. This resin is very strong and so firmly connected to the two materials that the hybrid profiles can be bent into different radii (smallest radius: 400 mm or 16 in).

3. OUTER SKIN

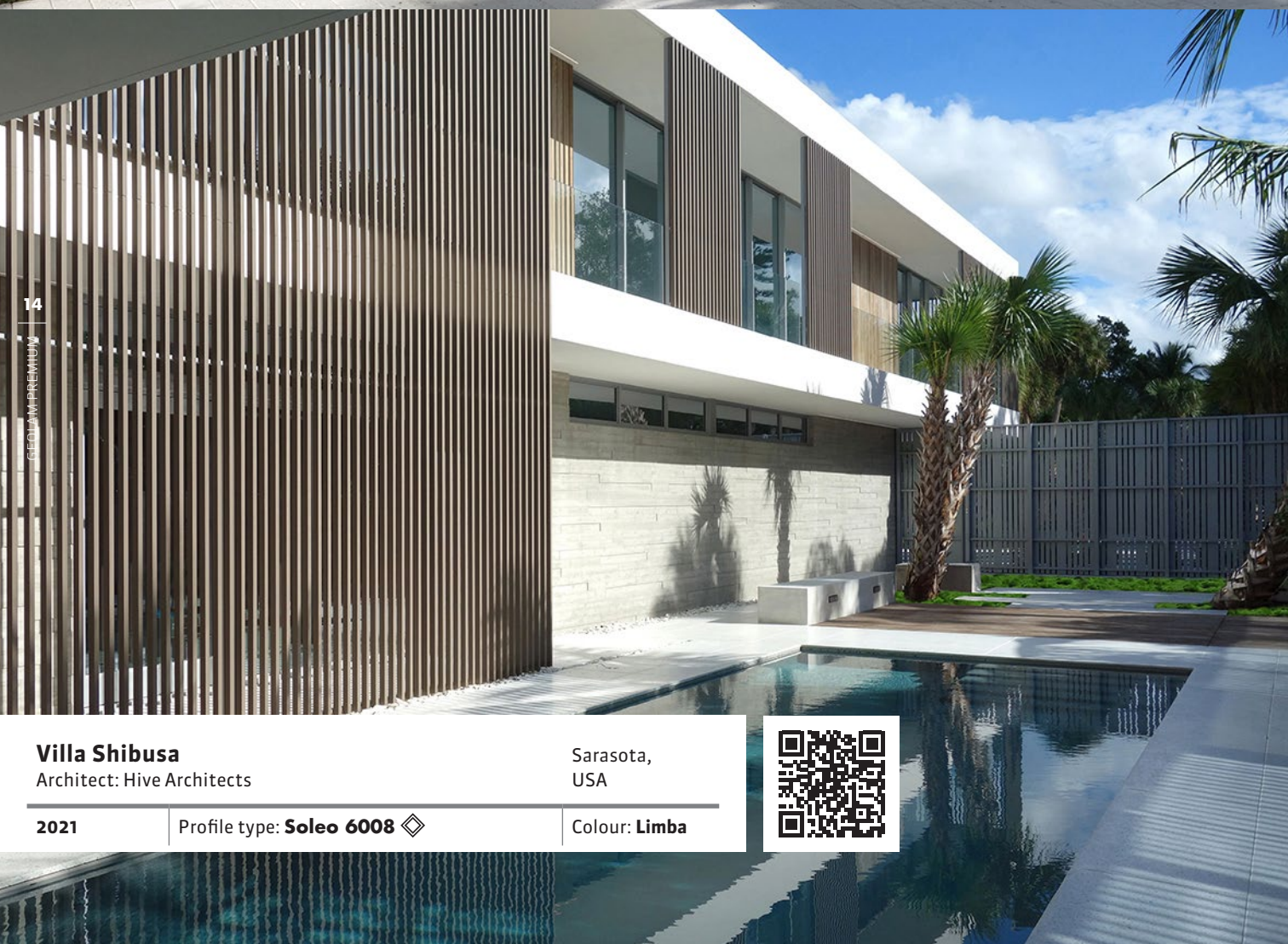
The outer layer in WPC is available in many colours, but especially in different finishes, too. The base colour does not change over time, even without maintenance. The dimensional stability of this hybrid material is remarkable, even when exposed to extreme temperatures and weather conditions. Even when exposed to humidity, its dimensional stability outclasses all types of composite wood.

Hybrid profile Vertigo 5010 teak

Style outlets shopping mall
Architect: Batlle I Roig

Barcelona,
Spain

2016	Profile type: **Qualita 020C, Careo 7015 & 7035**	Colour: **Rosewood**



Villa Shibusa
Architect: Hive Architects

Sarasota,
USA

2021	Profile type: **Soleo 6008** ◇	Colour: **Limba**

LONG LASTING

Exceptional features set the benchmark for wood façades and the creation of indoor and outdoor spaces.

A façade built with Geolam Premium hybrid profiles exhibits the exceptional aesthetic qualities of natural wood, but it does not have its fragility. Unlike the hardwood that bleeds tannin, changes colour, warps and generates splinters, the WHS Geolam profiles are durable, dimensionally stable, remain perfectly straight and can be installed even under the most extreme climatic conditions. Geolam boards do not bleed tannins nor splinter. They are well adapted for indoor applications as well due to their fire resistance.

	Advantages compared to wood	Advantages compared to other WPCs	Advantages compared to lacquered aluminum
ESTHETIC	▪ Optimum stability, no warping. ▪ No knots, cracks plinters. ▪ No graying. ▪ Does not release tannin.	▪ Aesthetic, natural texture. ▪ Bendable. ▪ Wide range of applications.	▪ Natural look and feel.
MAINTENANCE	▪ Zero maintenance costs. ▪ No treatment required. ▪ Clean with water.	▪ Durable product makes for a safe investment. ▪ Easily installed. ▪ No PVC, no formaldehyde.	▪ Ready to use. No additional stain, painting or other finishing required. ▪ Repairs of dents made possible through addition of material. ▪ Can be ripped, sanded or corrected on site, if necessary without dismantling the profile from façade.
PERFORMANCE	▪ Sustainable and durable. ▪ Low fire reaction. ▪ Resistant to extreme climates, insects and fungi.	▪ Low fire reaction. ▪ Lightweight. ▪ High mechanical strength.	▪ Best thermal insulation. ▪ Best phonic insulation. ▪ Best wind and vibration resistance.

LOW CARBON FOOTPRINT

Geolam's premium hybrid boards – an ecologically responsible approach.

JIS A5741: a strict environmental standard

Geolam products comply with the stringent JIS A 5741 standard. They are made from recycled materials and are themselves recyclable.

This standard also guarantees that our products contain no toxic substances. All our raw materials are certified for quality, safety and environmental performance.

R90 90% raw materials of recycled origin or more.

PP Polymer: recycled polypropylene.

40 40% resins.

EX-II Designed for use outdoor use.

Eco Mark: a prestigious label

Geolam products have been awarded the prestigious Eco Mark by the Japan Environment Association, a member of the Global Eco Labelling Network.

The WPC Geolam product range is guaranteed chlorine-, CFC-, PVC-, formaldehyde- and solvent-free.

JIS A 5741 Certificat Recycling TC 03 09 021 — in 2003

Eco Mark Certificat 08 137 008

LEED Platinum — in 2007

BREEAM In Use — in 2016

WELL — Gold in 2019

On the Tetiaora atoll in Polynesia, Geolam profiles from the Premium range were used to build The Brando eco-resort. This eco-friendly hotel complex was entirely designed with respect for the environment and in accordance with the most demanding ecological principles. It was awarded the prestigious LEED Platinum certification following six years of collaboration between owners, designers, architects and Geolam. It remains the first hotel in French Polynesia to achieve LEED certification. Although more demanding, this certification is comparable in spirit to the Haute Qualité Environnementale concept in France.

Thanks to a combination of cutting-edge technologies, Geolam keeps the carbon footprint of its profiles to a minimum, contributing to the construction of buildings that meet the most demanding ecological standards.

Carbon footprint for hybrid wood profiles

- 1.54 kg of CO_2 per kg of wood composite
- 0.87 kg of CO_2 per kg of aluminum

Therefore for the Soleo 6015 (30x50 mm)

- 0.93 kg of CO_2 per lineal meter of wood composite
- 0.53 kg of CO_2 per lineal meter of aluminum

Tembo Barcelona, suites and apartments
Architect: AZCON arch. & Hybrida

Barcelona, Spain

2023	Profile type: **Soleo 6031**	Colour: **Teak**

Reaction to fire test according to the European Standard NF EN 13501-1+A1 Classification B-s3, d0

Here on picture: **Geolam Soleo 6008** ◈

Photo credit: French National Test Laboratory

SECURITY

Responding to fire resistance to the highest standards

Code requirements regarding fire ratings are becoming increasingly stringent. Consistent with Geolam's four decade history of product innovation, we are continuing to improve our technologies, products and processes to ensure that our profiles meet these increased demands. Our development process includes working with certified, third-party laboratories in Europe and the US to create increasingly fire-resistant products to be installed in all types of façades.

Important fire control certificates for Geolam's Wood Hybrid Systems

Fire rating of Geolam wood/hybrid boards – available upon request

Fire reactions classifications on request:

Europe	Euroclasses (EN 13823+A1): B-s3, d0
USA & Middle East	Surface burning characteristics (ASTM E 84) Class A & Class 1, declared as **non-combustible material**
France	(NF P92-507): M0 to M2
Germany	(DIN 4102-1): B2 classification

Hotel Waldorf Astoria
Architect: WATG

Doha,
Qatar

2019	Profil type: **Vertigo 5010**	Colour: **Teak**

Bonaire Shopping Center
Architect: COT and Partners

Valencia,
Spain

2016	Profile type: **Soleo 6008, 6029, 6030, 6031** ◈	Colour: **Rosewood**

ADAPTABLE

The alliance of natural features and contemporary aesthetics.

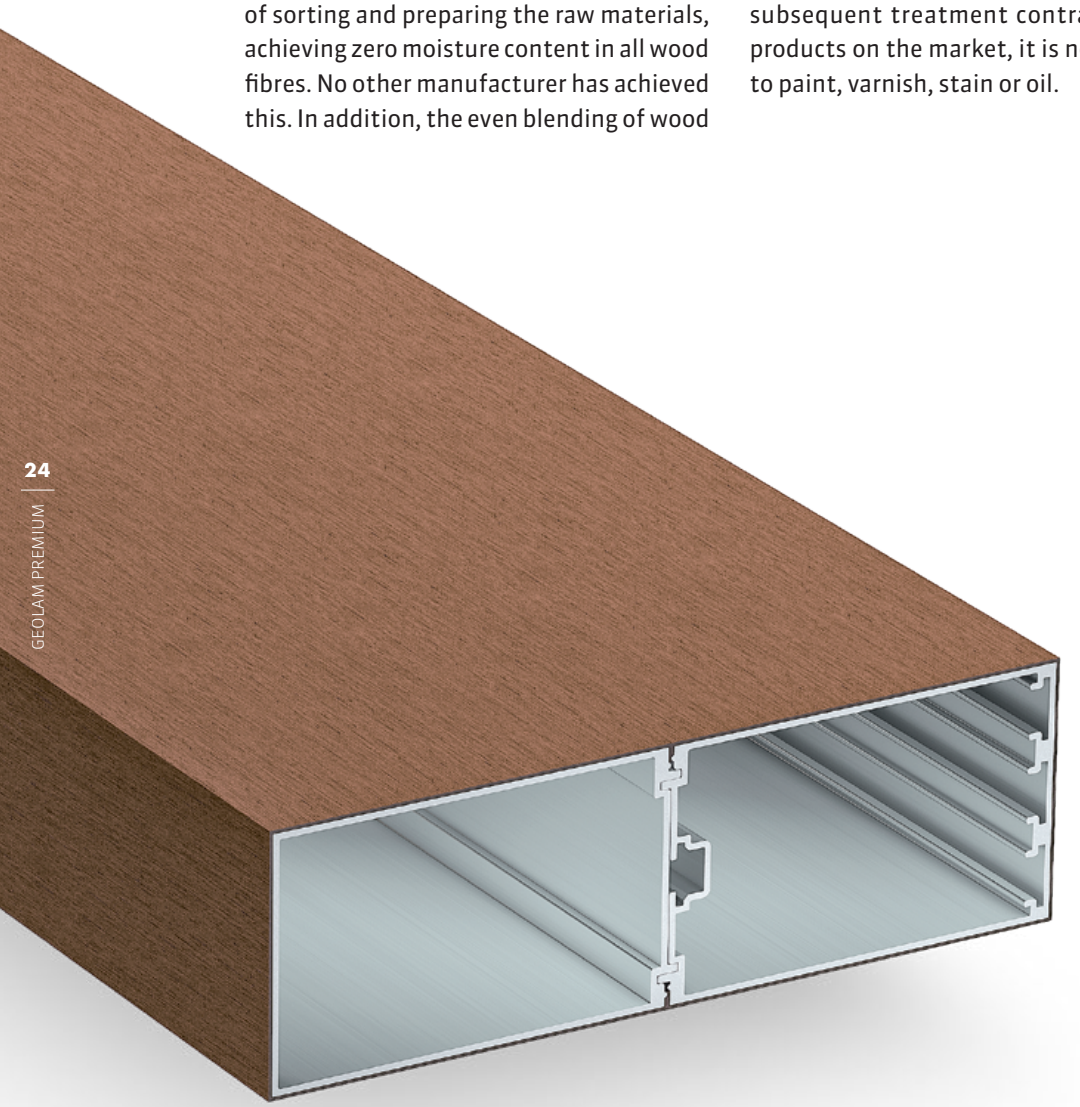
Geolam Premium WPC overrides the first WPC generation. Japanese engineering art has succeeded in developing a novel wood composite material that while keeping the same stability specifications - looks, feels and smells like solid wood, can be worked like solid wood, has a minimal ecological footprint and is easy to install.

Next to the established horizontal application for decking installations certain Premium WPC and WHS profiles can also be used for façade cladding and as a building material for furniture and other wood-like applications. The solid wood-like character means boards that can be worked with tools and machines used for wood. Geolam is the first brand to provide boards that can be used for all outdoor applications: decks, ceilings, walls, façades, furniture, architectural features.

INNOVATIVE

Zero maintenance, zero toxicity, withstands extreme weather and resists fire.

The art of a commercially viable and ecological production without any toxic content lies in Geolam's highly sophisticated methods of sorting and preparing the raw materials, achieving zero moisture content in all wood fibres. No other manufacturer has achieved this. In addition, the even blending of wood with polypropylene before the extrusion process further enhances the quality of our products. Geolam boards do not require any subsequent treatment contrary to other products on the market, it is not necessary to paint, varnish, stain or oil.



Wood hybrid Planeo 4046

2016 Best Green Development Winner
2016 Best Office Development - Highly Commended
2015 Best Office Architectural Design

Menarco Tower
Architect : AIDEA

2018 | Profile type: **Planeo 4046** ◇ | Colour: **Rosewood**

Taguig Grand Manille,
Philippines

Hotel Aman New York - 5th Avenue
Architect : Denniston, Jean-Michel Gathy

New York,
USA

2022	Profile type: **Soleo 6015**	Colour: **Limba**

QUALITY

ISO 9001 since 2001 — ISO 14001 since 2004

Geolam's success is based on
over 250 patents and quality certificates.

Tests carried out by the Centre Scientifique et Technique du Bâtiment (CSTB)

Extract from test report no. DBV-21-07875 (22/11/2022)

Reference	Title	**Essay on the cross de Saint-André** Standard index: 1	**Withdrawal / Change of size** Standard index: 9	**Blistering or detachment** Standard index: 9	**Change of color** Standard index: 2, 3, 4	**Yellow indicator** Standard index: 5	**Light reflection factor** Standard index: 3, 5, 7	**Illuminant D65 - 2°** Standard index: 3	**Report** page numbers
Weathering	100 cycles: 2h at -20°C and 2h at 80°C, relative humidity 90%.	level 0*	no	no	ΔE ab = 2	ΔY.I. = 4	Δpv^{nh} = -1%	ΔE ab = 2	8-9
Direct sunlight / Thermal shock	6h steps at 80°C Natural cooling to room temperature 3 cycles: ▪ Rise to 80° ▪ 15 min at 80° ▪ Return to room temperature by sprinkling	level 0*	no	no	ΔE ab = 2	ΔY.I. = 3	Δpv^{nh} = -1%	ΔE ab = 2	10-11
Salt spray tests salt spray	Salt spray tests are carried out in accordance with standard NF EN ISO 9227 **Result after 240h exposure : no trace of oxidation**	level 0*	no	no	ΔE ab = 2	ΔY.I. = 2	Δpv^{nh} = -1%	ΔE ab = 2	12-13
UV aging	Simulated weathering and sunlight ageing tests are carried out in accordance with NF EN ISO 4892-2 method A cycle n°1.								
	2,000 h	level 0*	no	no	ΔE ab = 4	ΔY.I. = -8	Δpv^{nh} = 0%	ΔE ab = 4	14-17
	4,000 h	level 0*	no	no	ΔE ab = 6	ΔY.I. = -20	Δpv^{nh} = 0%	ΔE ab = 6	15-17
	6,000 h	level 0*	no	no	ΔE ab = 7	ΔY.I. = -22	Δpv^{nh} = 2%	ΔE ab = 7	16-17

* Level 0: **no delamination or peeling or peeling off**

Index	Standards	Date	Title
1	NF EN ISO 16276-2	2007	Anticorrosion of steel structures using paint systems. Evaluation and acceptance criteria of adhesion/cohesion (breaking strength) of a coating - Part 2: grid test and Saint André cross test.
2	NF EN ISO/CIE 11664-1	2019	Colorimetry. Part 1: CIE reference observers for colorimetry
3	NF EN ISO 11664-2	2011	Colorimetry. Part 2: Standardized CIE illuminants
4	NF EN ISO/CIE 11664-4	2019	Colorimetry. Part 4: Color space L*a*b* CIE 1976
5	NF EN 16153+A1	2015	Flat, multi-wall polycarbonate (PC) lighting panels for interior and exterior use in roofs, claddings and ceilings - Requirements and test methods
6	NF EN 14500	2021	Closures and blinds - Thermal and lighting comfort. Test and calculation methods
7	NF EN 410	2011	Glass in building - Determining the luminous and solar characteristics of glazings
8	NF EN ISO 4892-2	2013	Plastics - Methods of exposure to laboratory light sources. Part 2: Xenon arc lamps
9	NF EN ISO 9227	2017	Corrosion testing in artificial atmospheres - Salt spray testing

Tests carried out by other approved laboratories

UV color stability and weathering test	▪ Norme JIS-K1571-2010 : **ΔE ab = 2.53 for 5,000 hours of exposure** ▪ Norme JIS A 1415 : **ΔE ab = 2.1 for 5,000 hours of exposure** ▪ Norme DIN EN ISO 11341 : **ΔE ab = 1.9 after 1,000 hours of exposure** ▪ Norme DIN EN ISO 16474-2 : **ΔE ab = 2.4 after 1,000 hours of exposure**
Resistance to sulfur dioxide	▪ Norme DIN EN ISO 3231 : no change in appearance after 24 cycles
Salt resistance	▪ Norme DIN EN ISO 9227 NSS : no change after 240 hours
Brinell hardness	▪ Norme JIS Z 21010-1994 : 26.8 in the middle of the cells and 52.3 at the walls ▪ Hardness superior to that of Teak (24.5) according to the same standard
Resistance to Abrasion	▪ Norme JAS Flooring A : loss of 0.068 g for a 1kg load over 500 rotations ▪ Hybrid woods outperform composites

SOLEO RANGE

Louvres, façade cladding, sun shields, screens, bannisters, balustrades and handrails.

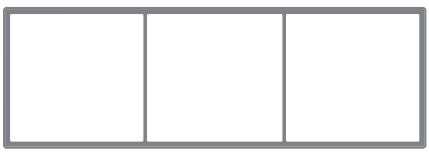
Soleo	Thickness	Width	Weight	Feature
6036	15 mm 5/8 in	100 mm 4 in	1.00 kg/lm 0.67 lb/ft	2 screw channels
6038	22 mm 7/8 in	145 mm 5 3/4 in	2.00 kg/lm 1.34 lb/ft	
6005	25 mm 1 in	45 mm 1 3/4 in	0.60 kg/lm 0.40 lb/ft	
6131	26 mm 1 1/8 in	125 mm 5 in	1.39 kg/lm 0.93 lb/ft	2 extra thick sides for direct screwing
6031	28 mm 1 1/8 in	126 mm 5 in	1.75 kg/lm 1.16 lb/ft	2 screw channels
6027	30 mm 1 1/4 in	40 mm 1 5/8 in	0.74 kg/lm 0.50 lb/ft	2 screw channels
6004	30 mm 1 1/4 in	50 mm 2 in	0.77 kg/lm 0.52 lb/ft	2 screw channels
6007	30 mm 1 1/4 in	50 mm 2 in	0.98 kg/lm 0.66 lb/ft	
6008	30 mm 1 1/4 in	50 mm 2 in	0.77 kg/lm 0.52 lb/ft	2 extra thick sides for direct screwing
6015	30 mm 1 1/4 in	50 mm 2 in	0.85 kg/lm 0.57 lb/ft	2 extra thick sides for direct screwing
6029	30 mm 1 1/4 in	60 mm 2 3/8 in	1.00 kg/lm 0.67 lb/ft	2 screw channels
6030	30 mm 1 1/4 in	80 mm 3 1/8 in	1.20 kg/lm 0.80 lb/ft	2 screw channels
6009	30 mm 1 1/4 in	100 mm 4 in	1.40 kg/lm 0.94 lb/ft	1 extra thick side for direct screwing
6025	30 mm 1 1/4 in	120 mm 4 3/4 in	2.00 kg/lm 1.34 lb/ft	
6023	30 mm 1 1/4 in	145 mm 5 3/4 in	2.06 kg/lm 1.38 lb/ft	Also usable as decking
6196	35 mm 1 3/8 in	70 mm 2 3/4 in	1.21 kg/lm 0.81 lb/ft	2 screw channels
6033	35 mm 1 3/8 in	200 mm 7 7/8 in	3.30 kg/lm 2.22 lb/ft	2 screw channels Grooved or sanded surface
6028	38 mm 1 1/2 in	70 mm 2 3/4 in	1.25 kg/lm 0.85 lb/ft	
6016	40 mm 1 5/8 in	60 mm 2 3/8 in	1.05 kg/lm 0.71 lb/ft	1 extra thick side for direct screwing
6011	40 mm 1 5/8 in	70 mm 2 3/4 in	1.12 kg/lm 0.75 lb/ft	1 extra thick side for direct screwing

Please enquire, other profiles and accessories are available on request

End caps ☐ plastic / ■ WPC / ▣ WHS | Connectors 〓 straight / ◣ corner

SOLEO RANGE

Louvres, façade cladding, sun shields, screens, bannisters, balustrades and handrails.

Soleo	Thickness	Width	Weight	Feature	
6117	43 mm 1 5/8 in	93 mm 3 5/8 in	1.60 kg/lm 1.08 lb/ft	1 extra thick side for direct screwing	
6020	50 mm 2 in	102 mm 4 in	1.60 kg/lm 1.30 lb/ft		
6040	50 mm 2 in	150 mm 5 7/8 in	2.40 kg/lm 1.61 lb/ft		
6060	50 mm 2 in	200 mm 7 7/8 in	3.93 kg/lm 2.64 lb/ft		
6014	51 mm 2 in	126 mm 5 in	2.25 kg/lm 1.51 lb/ft		
6010	53 mm 2 1/8 in	128 mm 5 1/8 in	2.30 kg/lm 1.55 lb/ft		
6034	53 mm 2 1/8 in	105 mm 4 1/8 in	1.94 kg/lm 1.30 lb/ft	2 screw channels	
6048	60 mm 2 3/8 in	80 mm 3 1/8 in	1.43 kg/lm 0.96 lb/ft	1 extra thick side for direct screwing	
6065	80 mm 3 1/8 in	300 mm 11 3/4 in	10.00 kg/lm 6.72 lb/ft		
6050	100 mm 4 in	150 mm 6 in	4.75 kg/lm 2.69 lb/ft		
6070	100 mm 4 in	300 mm 11 3/4 in	9.81 kg/lm 6.59 lb/ft		

Please enquire, other profiles and accessories are available on request

End caps ☐ plastic / ■ WPC / ▣ WHS | Connectors 〓 straight / ◣ corner

PLANEO RANGE

Deck, Louvres, soffit, balustrades.

Planeo	Thickness	Width	Weight	Feature
4010	30 mm 1¼ in	145 mm 5¾ in	1.95 kg/lm 1.31 lb/ft	Can also be used as decking
4023	30 mm 1¼ in	290 mm 11⅜ in	4.2 kg/lm 1.34 lb/ft	
4024	30 mm 1¼ in	435 mm 17⅛ in	6.3 kg/m 4.03 lb/ft	
4048	50 mm 2 in	300 mm 11¾ in	4.80 kg/lm 2.23 lb/ft	
4050	50 mm 2 in	450 mm 17¾ in	7.20 kg/lm 4.84 lb/ft	
4051	60 mm 2¼ in	160 mm 6¼ in	3.00 kg/lm 2.02 lb/ft	
4052	60 mm 2¼ in	240 mm 9½ in	4.50 kg/lm 3.02 lb/ft	
4053	60 mm 2¼ in	320 mm 12½ in	6.00 kg/lm 4.03 lb/ft	
4044	87 mm 3⅜ in	174 mm 6⅞ in	4.52 kg/lm 3.04 lb/ft	
4061	100 mm 4 in	300 mm 11¾ in	9.5 kg/m 6.38 lb/ft	
4062	100 mm 4 in	450 mm 17¾ in	14.25 kg/m 9.58 lb/ft	
4046	110 mm 4¼ in	350 mm 13¾ in	9.90 kg/lm 6.65 lb/ft	Fixing grooves

Please enquire, other profiles and accessories are available on request

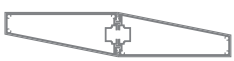
VERTIGO RANGE

Façade cladding & siding.

Vertigo	Thickness	Width	Weight		Feature	
5005	7 mm ¼ in	100 mm 4 in	0.57 kg/lm 0.38 lb/ft		To be clipped	
5011	13 mm ½ in	130 mm 5⅛ in	0.77 kg/lm 0.52 lb/ft	✕		
5010	13 mm ½ in	185 mm 7¼ in	1.19 kg/lm 0.80 lb/ft	✕		
5054	20 mm ¾ in	170 mm 6¾ in	1.40 kg/lm 0.94 lb/ft		To be clipped	
5013	25 mm 1 in	205 mm 8⅛ in	2.51 kg/lm 1.69 lb/ft			
5052	120 mm 4¾ in	230 mm 9 in				

DIAMEO RANGE

Louvres, façade cladding, sun shields, screens, bannisters and balustrades.

Diameo	Thickness	Width	Weight		Feature	
2018	30 mm 1¼ in	120 mm 4¾ in	1.68 kg/lm 1.13 lb/ft	□	2 screw channels	
2022	60 mm 2⅜ in	300 mm 11¾ in	7.61 kg/lm 5.11 lb/ft		6 screw channels	
2023	60 mm 2⅜ in	300 mm 11¾ in	7.42 kg/lm 4.99 lb/ft		6 screw channels	

Please enquire, other profiles and accessories are available on request

End caps □ plastic / ■ WPC / ▣ WHS | Connectors ▬ straight / ◣ corner | Finishing profile ✕

CAREO RANGE

Louvres, façade cladding, sun shields, screens, bannisters and balustrades, posts.

Careo	Thickness	Width	Weight		Feature	
7010	44 mm 1¾ in	44 mm 1¾ in	0.74 kg/lm 0.50 lb/ft			
7015	45 mm 1¾ in	45 mm 1¾ in	0.70 kg/lm 0.47 lb/ft	■ 〓 ◣		
7031	45 mm 1¾ in	45 mm 1¾ in	0.82 kg/lm 0.55 lb/ft			
7012	50 mm 2 in	50 mm 2 in	1.80 kg/lm 0.54 lb/ft			
7011	53 mm 2⅛ in	53 mm 2⅛ in	1.25 kg/lm 0.84 lb/ft	□		
7030	85 mm 3¼ in	85 mm 3¼ in	1.89 kg/lm 1.27 lb/ft			
7035	87 mm 3⅜ in	87 mm 3⅜ in	2.28 kg/lm 1.53 lb/ft	■ 〓 ◣		
7014	88 mm 3½ in	88 mm 3½ in	2.80 kg/lm 1.88 lb/ft	□ ■	4 screw channels	
7016	120 mm 4¾ in	120 mm 4¾ in	4.00 kg/lm 2.69 lb/ft			

RONDO RANGE

Louvres, façade cladding, sun shields, screens, bannisters, balustrades and handrails, posts.

Rondo	Diametre	Weight	Feature	
3002	50 mm 2 in	0.95 kg/lm 0.64 lb/ft	2 screw channels	
3003	56 mm 2¼ in	1.07 kg/lm 0.72 lb/ft		
3004	63 mm 2½ in	2.46 kg/lm 1.65 lb/ft	4 screw channels. Guides for adding a square stiffener	
3006	70 x 110 mm 2 ¾ in x 4¼ in	1.72 kg/lm 1.16 lb/ft	2 screw channels. Guides for adding a stiffener	

Please enquire, other profiles and accessories are available on request

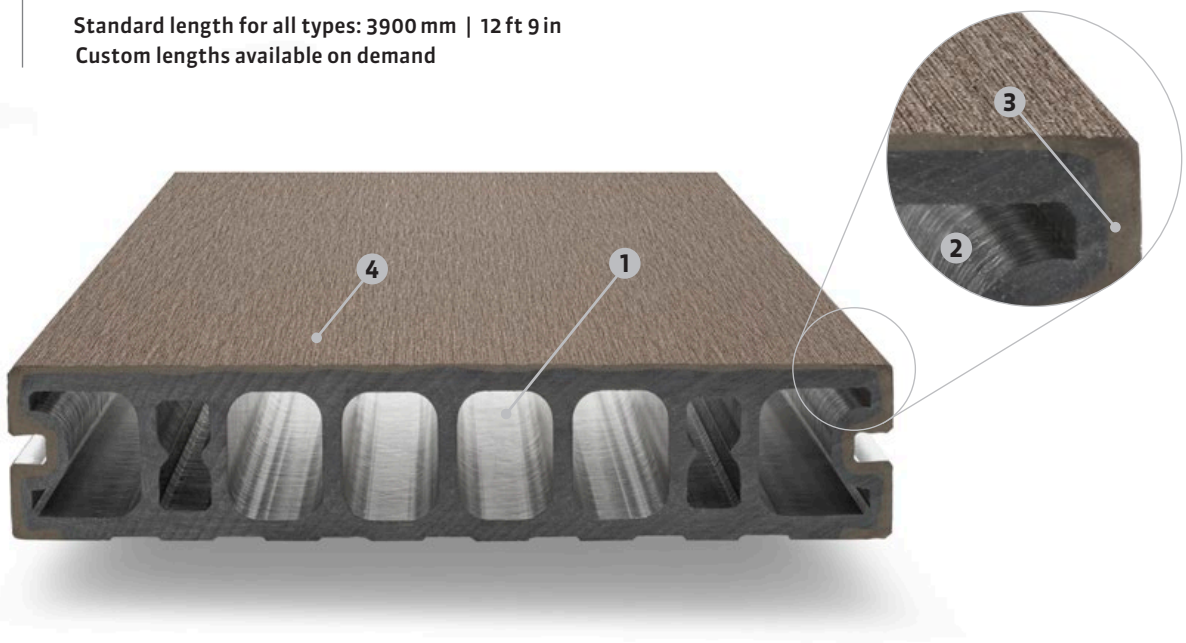
End caps □ plastic / ■ WPC / ▣ WHS | Connectors 〓 straight / ◣ corner | Finishing profile ✕

Perfection

CO-EXTRUDED DOUBLE LAYER TECHNOLOGY

A pioneering spirit, and over 45 years of experience.

Standard length for all types: 3900 mm | 12 ft 9 in
Custom lengths available on demand



First generation products were heavy, but in 1992 a revolutionary production method developed by Japanese engineers, led to the manufacture of the world 's first hollow cell profiles and their typical honeycomb structure. Hollow cell boards are lighter, more efficient and absorb much less humidity than solid decking products. Their cross sections can be adjusted to permit substantially larger spacing between joists in the substructure, enabling fast installation in all type of construction projects. With a reinforced blade stability, an in between supports axis of 60cm for the structure and the low core humidity absorption, this profile represents the pinacle of technology in its domain while keeping an economic, fast but high quality installation, compared to first generation co-extruded profiles.

1. HOLLOW CELL TECHNOLOGY

Hollow cell profiles allow implementation at reduced costs due to increase of profiles stability and strength.

2. HIGH-QUALITY EXTRUSION

Polished surfaces are synonymous with high extrusion quality.

3. CO-EXTRUSION

Combining the core and the external layer: the material is homogeneous, which makes it more resistant and more stable.

4. MULTIPLE PURPOSE EXTERIOR LAYER

This WPC layer guarantees an antistatic surface. A thermal shield can be added on demand to lower the surface's temperature when exposed to the sun.

QUALITA PROFILE
HIGH PERFORMANCE

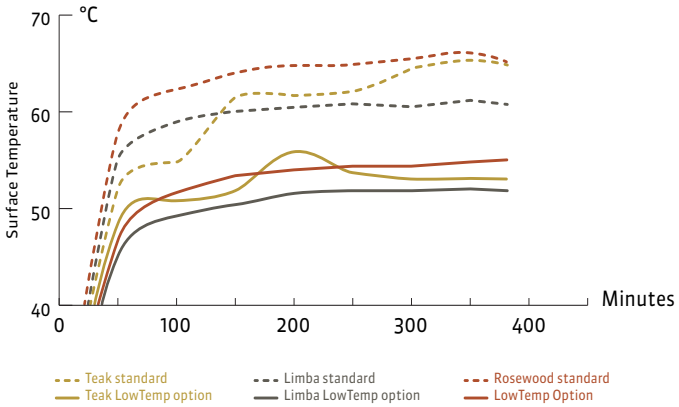
A co-extruded board, with anti-static properties and a low co-efficient of expansion designed for public spaces.

LowTemp Option: Maintains low surface temperatures of the board even under direct intense sunlight (see diagram).

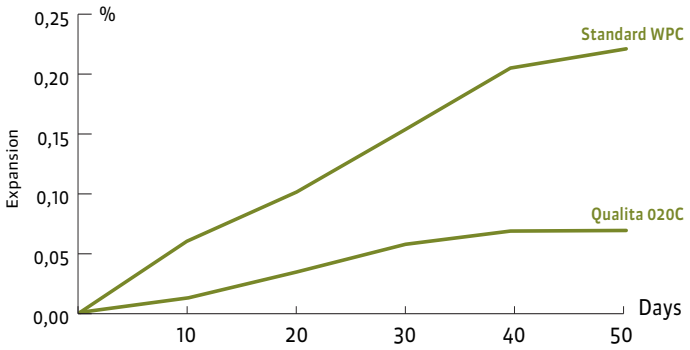
Qualita	Width	Thickness	Weight	Feature
020C	145 mm 5¾ in	30 mm 1¼ in	3.30 kg/lm 2.22 lb/ft	1 side sanded, usable on one side only. Designed specifically for very humid environment. Anti-static and optional low surface temperature processing.

LowTemp option

Complies with surface temperatures as per ASTM4803-97



Expansion due to water absorption



Terrasses and façades

Our Universal fastener, Cliplam®, enhances the value of all of our installations. It is hidden to provide a cleaner surface appearance and adds to the safety and security of each installation by virtue of its perfect fit and hold with our boards.

The Universal clip contains a core of hardened galvanized steel covered with recycled polycarbonate. The Universal clip contains a core of hardened galvanized steel covered with recycled polycarbonate.

Clip Universal

End and starting clip

COLOURS

Just like tropical hardwood.

Teak

Limba

Bilinga

Wenge

Rosewood

Carbon

For specific applications

Birch

Walnut

Bamboo

ACCESSORIES

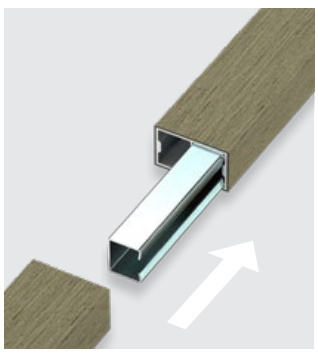
Wood hybrid system

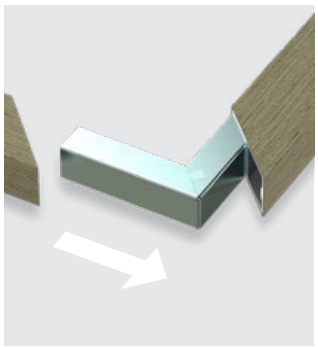
END CAPS

These patented resinous or wood plastic composite end caps cover the end of the profiles, while at the same time allowing moisture to escape. They provide an attractive finish to any installation.

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.





THERMO-LACQUERED FINISHING PROFILES

Combining pure aesthetics and functional excellence in the finishing touches for Vertigo 5010 and Vertigo 5011

9320
Jamb
hollow joint

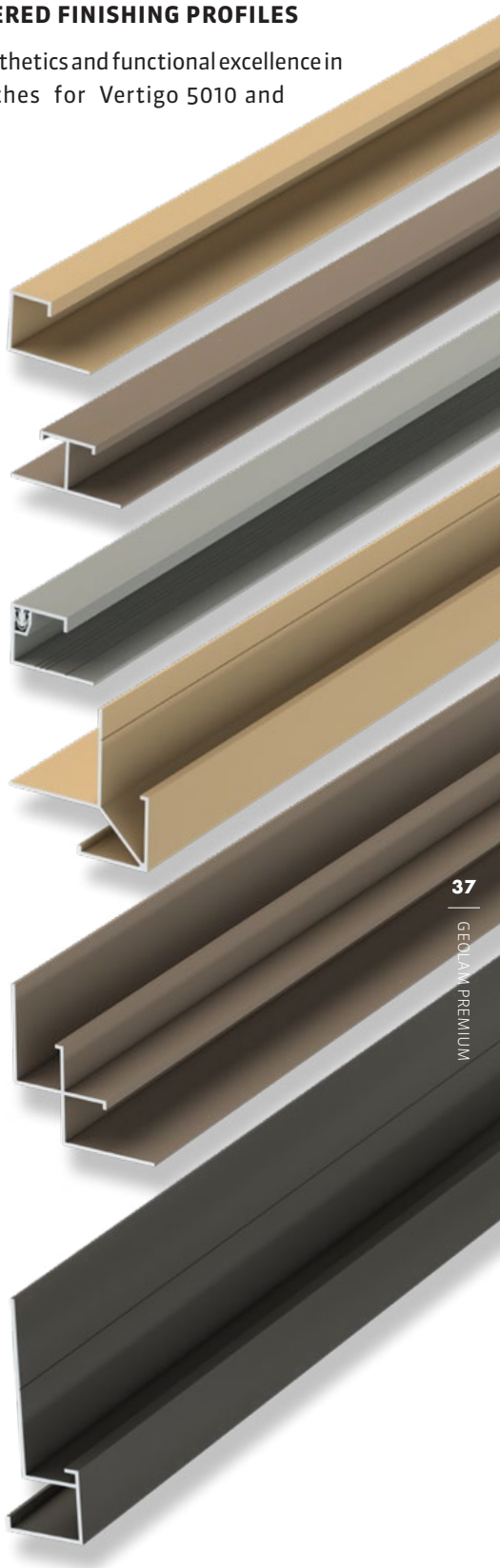
9324
Junction

9321
Jamb
hollow seal to clip

9322
Outside corner

9323
Incoming corner

9325
Framing



Natur&O aquatic center
Architect: Chabanne Agency

Denain,
France

2021	Profile type: **Soleo 6023, Planeo 4023 & 4024**	Colour: **Teak**

SERVICES

Geolam provides technical consulting to support planners in the design, presentation and tendering process.

DURING THE PRESENTATION

- Sales pitch
- Photos of installations
- Samples: boards, colours
- Calculation help
- Certificates: Environmental certificate, quality certificate, ISO certificate, fire rating certificate.

DURING THE DESIGN PHASE

- Advice in selecting the right products
- Site visits
- Review of drawings / CAD data
- Technical support

DURING THE INSTALLATION PHASE

- Just in time delivery
- Distribution of information among project stakeholders
- Installation guides
- Technical advice at each phase of the installation, installation engineering.
- Monitoring and control of job sites
- Technical assistance
- Advice in upkeep & minimize on-site loss and damage

NON-DEPRECIABLE WARRANTY

- Boards, 10 years
- Fasteners, 25 years

More work
on our website

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Eco-Technology
AG

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ISO 9001 since 2001

ISO 14001 since 2004

LEED Platinum in 2007

NF EN 13501-1+A1 Euroclass B-s3,d0 since 2021

BREEAM In Use in 2016

WELL gold in 2019

JIS A 5741 Certificat Recycling TC 03 09 021 in 2003

Eco Mark Certificat 08 137 008 since 2005