

Decking Cladding Soffit Lumber



dasso Bamboo

Sustainable Innovation. Reliable Performance. Greener Future.





GLOBAL INNOVATOR OF BAMBOO PRODUCTS

dasso reserves the right to revise product designs and specifications without prior notice. Due to potential color variations caused by the printing process, the actual product may differ slightly from the images shown in this brochure. dasso retains the final right of interpretation for all content herein. For precise information, please refer to the final delivered product.







Company Profile

Established in 1993, the dasso Group is a global leader in the development and production of innovative bamboo products. Headquartered in Hangzhou, China, the company operates 10 manufacturing facilities and over 1,000 employees. Additionally, dasso owns more than 2,700 acres of productive, sustainable FSC certified bamboo forests in China.



Annual manufacturing output

5,700,000_{M²}

Hangzhou Dasuo Technology Co., Ltd

 $\label{eq:multi-purpose} \text{Multi-purpose production facility produces 500,000 } \text{m}^{2} \text{ per year.}$

Fujian Dasso Industry Co., Ltd.

Multi-functional factory inaugurated in 2021, with an annual production capacity (dassoCTECH PLUS) of 2 million m^2 , and additional facilities for a second phase.

Jiangxi Zhushang Bamboo Industrial Co., Ltd

Specialized dassoCTECH factory producing 1 ,000,000 m² per year.

Zhejiang Xinhaiye Bamboo Technology Co., Ltd

Factory specialized in the production of dassoXTR (500,000m²/year).

Hangzhou Zhuangyi Furniture Co., Ltd

The bamboo furniture factory produces 400 full 40-foot containers annually.

Hangzhou Xinzhu Cultural & Creative Co., Ltd

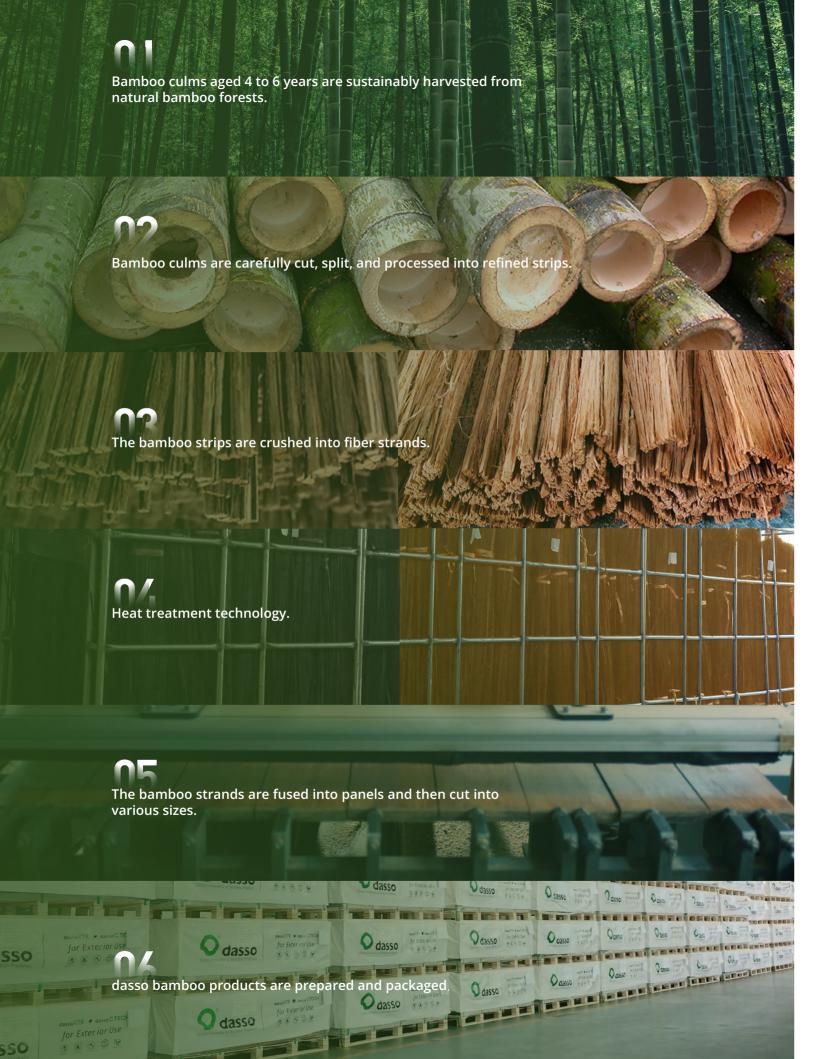
Integrated design, development, sales and promotion of green bamboo, original design of bamboo crafts.

Zhejiang Daocheng Bamboo Industry Co., Ltd

A dedicated team of 50 export sales professionals delivers dasso products to markets worldwide.

Shunchang Zhujia Bamboo Industrial Co., Ltd

Multi-purpose production facility produces 200,000 m² per year.



The "Fused Bamboo" Treatment Process

C

Decking

Reversible face Structural T&G end match

Cladding

Hidden fastener system, Easy to install, with end-matching for quick and seamless assembly.

Soffit

Hidden fastener system, Easy to install, with T&G end match

Lumber & Panel

Versatile applications with flexibility for customized production.





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dassoXTR

dasoXTR's patented fusion process extracts the sugars and starches from the bamboo fibers and replaces them with phenolic resins. Then, the impregnated fibers are compressed to create a very hard, dense, and durable Fused Bamboo that prevents bacteria, fungus, and other microorganisms from attacking dassoXTR.



dasso CTECH

dassoCTECH is made by crystallizing bamboo fibers with CeramiX particles, impregnating them with phenolic resin (the same durable resin used in bowling balls), and then compressing the material to form Fused Bamboo. The CeramiX particles bond to the fibers, preventing nutrients from attracting bacteria, fungi, mold, or insects. As a result, the bamboo fibers do not rot easily , even when exposed to outdoor environments.



Performance Comparison Between dasso Bamboo and Wood

Species **Brinell Hardness** Density Swelling Rate Swelling Rate Swelling Rate Durability Usage (N/mm^2) (kg/m^3) (Width) (%) (Length) (%) (Thickness) (%) Class Oak 34 - 37 680 - 720 9.6 0.1 - 0.3 3 Merbau 46 - 52 830 - 880 4.4 < 0.1 2.7 1000 - 1200 5.1 < 0.1 5.1 lpe 60 - 70 1050 - 1150 < 0.1 5.5 Cumaru 57 - 65 7.7 dassoCTECH / XTR 80-100 1150-1200 0.6 < 0.1 4.0 - 5.1

The Feature of Fused Bamboo



Environmentally Friendly

dassoXTR dassoCTECH

Negative carbon throughout its entire life cycle.

For more information, please refer to our Environmental Product Declarations (EPD).



Termite Resistance

dassoXTR

Termite resistance level: Class 8 [AWPA-2012, AWPA E1-09].

dassoCTECH

Reticulitermes santonensis DC D(durable) IFN 1171



Mould Resistance

dassoXTR dassoCTECH

[DIN EN ISO 846: 1997-10] [DIN EN 152: 2011]



Hard & Durable

dassoXTR

Hardness - Brinell: ± 106.8N/mm² (DIN EN 1534) Modulus of Rupture (MOR): 87N/mm² (DIN EN 408) Modulus of Elasticity (MOE): 18400N/mm² (DIN EN 408)

dassoCTECH

Hardness - Brinell: ± 79.2/mm² (DIN EN 1534) Modulus of Rupture (MOR): 110N/mm² (DIN EN 408) Modulus of Elasticity (MOE): 12300N/mm² (DIN EN 408)

dassoXTR dassoCTECH

Class 1 in durability (EN 350:2016) Class 4 in terms of usage (EN 350 - EN 335)



Fire Resistance

dassoXTR dassoCTECH

Fire standard decking: Class B_{ir}-s1 (EN 13501-1) Fire standard cladding: Class B-s1,d0 (EN 13501-1)



Guarantee

dassoXTR dassoCTECH

25-year warranty for residential and commercial use

Patented Technology

In 2008, dasso—the global leader in bamboo innovation—revolutionized the market with the launch of dassoXTR. Since then, supported by its dedicated research and development office, dasso has continuously developed pioneering bamboo solutions, including the exclusive dassoCTECH range.

All our products are rigorously tested and certified to meet the most demanding European standards for hardness, fire resistance, durability, and health compliance—ensuring performance, safety, and sustainability.















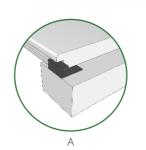




Decking Specification

Designation	Product Code	Dimensions (mm)	Profile	End Matched T&G
	XD20-SG2-5TG-PSR/V	20 x 137 x 1850		
dassoXTR	XD20-MG2-5TG-PSR/V	20 x 155 x 1850		
-	XD20-WG2-5TG-PSR/V	20 x 178 x 1850	5	
	XD18-SG2-5TG-PSR/V	18 x 137 x 1850	Reeded side / smooth side	
	ED20-SG2-5TG-PSR/V	20 x 137 x 1850		Yes
	ED20-MG2-5TG-PSR/V	20 x 155 x 1850		
de e e CTECIA	ED20-WG2-5TG-PSR/V	20 x 178 x 1850		
dassoCTECH	ED20-SG2-PSR/V-L3	20 x 137 x 3040	5	
-	ED20-MG2-PSR/V-L3	20 x 155 x 3040	V-grooved side / smooth side	
	ELD20-SG2-PSR/V	20 x 137 x 3050	v-Ri noven zine i zillootti zine	No
	ELD20-MG2-PSR/V	20 x 155 x 3050		NO

Decking Installation











Option1: Clip Installation

Step 1. Determine the surface side of the boards (reeded or smooth surface).

Step 2. Use fasteners or other suitable fasteners in the following sequence.

Step 3. Press the fastener in the groove of one decking board.

Step 4. Tighten the screw in the fastener and the sub beam.

Step 5. Depending on the type of board, use approx. 20/17/14 fasteners per m^2 , 137/155/178mm wide. When the tongue and groove are connected on the sub-beam, use two fasteners, one for every board.

Step 6. Only use the included stainless steel decking screws .

Option 2: Screw down Installation

Step 1. Determine the surface side of the boards (reeded or Smooth surface). Pre-drill the screw holes 20 mm from the side of the board. Make sure to select an appropriate drill bit for pre-drilling based on the screws being used to prevent the decking from cracking.

Step 2. Always screw both sides (left and right) of the board.

Step 3. Use stainless steel decking screws.

Decking Accessories

Clips Code	Dimensions	Photos	Code	Dimensions	Photos
H-Clips (DC-08A)	27 x 22 x 11mm		DS-01	4.2 x 30mm	Accompany.
S-Clips (DC-07) (Decking=18mm)	29 x 25 x 10mm	4	DS-02	4.2 x 25 mm	
S-Clips (DC-06) (Decking=20mm)	29 x 25 x 11mm		DS-03	4 x 41 mm	

Note: References ending with the letter 'R' have a smooth side and a reeded side, while those ending with 'V' have a smooth side and a V-grooved side. Each product is available with optional single-sided or double-sided (long side) grooving.



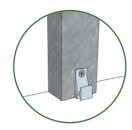




Cladding Specification

Designation	Product Code	Dimensions (mm)	Profile	End Matched T&G	
	XS18-SSL-5TG-PSS	18 x 137 x 1850		Voc	
dassoXTR	XS18-WSL-5TG-PSS	18 x 178 x 1850		Yes	
	XS12-100G2-PSS	12 x 100 x 1860		No	
	ES18-SSL-5TG-PSS	18 x 137 x 1850		Voc	
dassoCTECH	ES18-WSL-5TG-PSS	18 x 178 x 1850		Yes	
	ES12-100G2-PSS	12 x 100 x 1860		No	

Cladding Installation



First Row



Second Row

*Notifications 1

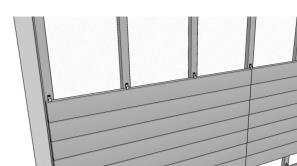
1.The decking clip is also suitable for the installation of cladding. However, note that the clip specifically designed for cladding has better properties to resist wind forces.

*Notifications 2

For the most popular board of 137 mm:

1.The actual width, visible from the facade, is 121 mm (137 mm including the overlapping profile).

2.You need to plan for 4.35 boards per square meter, taking into account the visible width and the space generated by the clips.



Step 1.Levelling first row of fasteners.

- Start with the lower row of clips and make sure it is aligned (using a spirit level).

Step 2: Install the first row of boards.

- Begin by positioning the clips for the next row using the first row of boards as a guide.
- Ensure that the clips are securely engaged in the groove, keeping the boards level. Tap the boards gently into place with a rubber mallet for precise alignment.
- We recommend securing the ends (end joints) of the boards to a batten using two clips for added stability and a seamless finish.

Step 3: Install the second row of clips.

- Install the second row of clips by pushing them down onto the upper edge of the first row of boards.

Step 4: Install the second row of boards.

Step 5: Continue with the rest.

- Continue installing the cladding boards in the same manner to cover the entire surface. Make sure to keep the clips level and maintain a sufficient ventilation gap (5-10 mm) at both the top and bottom of the cladding.

Cladding Accessories

Clips Code	Dimensions	Photos	Code	Dimensions	Photos
Clip (CC-18)	42 x 19 x 15mm	-	CS-01	5.5 x 28.5mm	
			DS-01	4.2 x 30mm	ACCEPTAGE OF
Clip (CC-12)	40 x 24.5 x 7.5mm	4	DS-02	4.2 x 25mm	
			DS-03	4 x 41mm	





Designation	Product Code	Dimensions (mm)	Profile	End Matched T&G
dassoXTR	XSO12-100-5TG-PSS			
		12 x 100 x 1850	<u>ل ح</u>	Yes
dassoCTECH	ESO12-100-5TG-PSS			

Soffit Installation



Clip A



Clip B

Step 1:

Make sure the soffit is installed on the correct side. Use the soffit clip.

Step 2:

Use the starter clip A for the first board, using one screw per starter clip.

Step 3:

Use the soffit clip B to install subsequent soffit boards, screw down the nail to contact the joint and clips, use two screws per field clip for the soffit.

Step 4:

Use approx. 27 fasteners per m², each joint should use the clips.

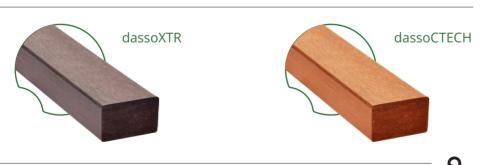


Soffit Accessories

Code	Dimensions	Photos
Clip SOF-1	32 x 32 x 10.8 mm	*
Clip SOF-2	32 x 25 x 11.5 mm	•
SS-01	4.2 x 27.5 mm	

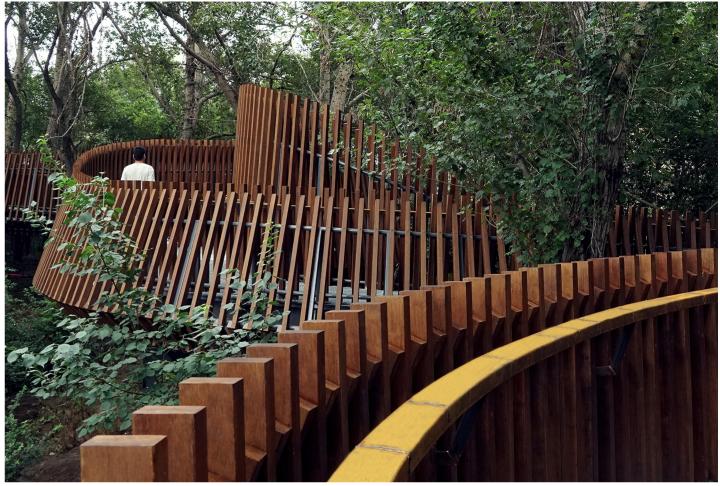
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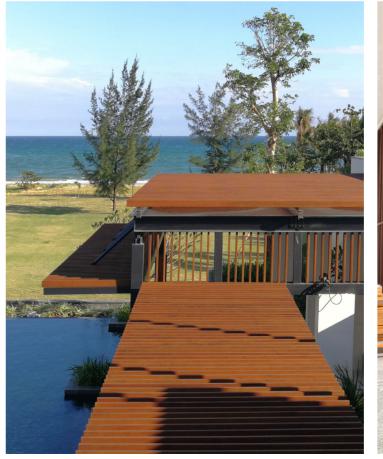




Specification	Product Code	Dimensions (mm)	Profile	End Matched T&G
	XL20-205/307-6FT-UAC	20 x 205 / 307 x 1860		
dassoXTR	XP20-625-6FT-UAC	20 x 625 x 1860		
XF30-65/100-	XF30-65/100-6FT-PSS	30 x 65 / 100 x 1860		
	EL20-205/307-6FT-PAC	20 x 205 / 307 x 1860		No
	EF30-65/100-6FT-PSS	30 x 65 / 100 x 1860		INO
dassaCTFCII	EL40-152/307-6FT-PAC	40 x 152 / 307 x 1860		
dassoCTECH	ELF20-65/100/137/155-PSS	20 x 65/100/137/155 x 3050		
	ELF30-65/100/137/155-PSS	30 x 65/100/137/155 x 3050		

Lumer & Panel Specification







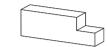
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Load Capacity

Below are the minimum quantities required for a standard installation without complications.

Please note that this is an estimate and does not account for site losses.





Decking

Length (mm)	Width (mm)	Thickness (mm)	Spacing between joists (mm)	Clips per m²	Linear meters of joists per m ²
1850	137	20	462.5	20	2.3
1850	155	20	462.5	17	2.3
1850	178	20	462.5	14	2.3
3040	137	20	434.3	20	2
3040	155	20	434.3	17	2
3050	137	20	435.7	20	2
3050	155	20	435.7	17	2

Cladding

Length (mm)	Width (mm)	Thickness (mm)	Spacing between joists (mm)	Clips per m²	Linear meters of joists per m ²
1850	137	18	616.7	16	1.8
1850	178	18	616.7	12	2.3
1850	100	12	462.5	27	2.3

Soffits

Length (mm)	Width (mm)	Thickness (mm)	Spacing between joists (mm)	Clips per m ²	Linear meters of joists per m ²
1850	100	12	462.5	27	2.3

Recommended Joist Spacing

Application	Evamela	Load	Concentrated Load		Recommended Joist Spacing (mm)			
Application	Example	Distribution (kN/m²)	(kN)	434.3	462.5	506.7		
Category A	Residential Areas			CTECH XTR	CTECH XTR	CTECH XTR		
	Floors	1.5 to 2,0	2.0 to 3.0	√	√	√		
	Stairs	2.0 to 4.0	2.0 to 4.0	$\sqrt{}$	√	√		
	Balconies	2.5 to 4,0	2.0 to 3.0		√	√		
Category B	Office Space	2.0 to 3.0	1.5 to 4.5	√				
Category C	Areas with Variable, High to Intense Traffic				-	-		
C1	Schools, cafes, restaurants, etc.	2.0 to 3.0	3.0 to 4.0	√ √		√		
C2	Churches, theaters, cinemas, conference rooms, etc.	3.0 to 4.0	2.5 to 7.0 (4.0)	√ √		√		
С3	Museums, exhibition rooms, etc.	3.0 to 5.0	4.0 to 7.0	√ √		\checkmark		
C4	Dance halls, gymnasiums, stages.	4.5 to 5.0	3.5 to 7.0		For more information and technical			
C5	Areas likely to host large crowds, such as concert halls, sports arenas, including stands, etc.	5.0 to 7.5	3.5 to 4.5	support, please contact dasso headquarters or one of its subsidiaries.				
Category D	Commercial Areas							
D1	Commercial spaces	4.0 to 5.0	3.5 to 7.0 (4.0)	For more information and technical support, please contact dasso headquar-				
D2	Large shopping centers	4.0 to 5.0	3.5 to 7.0		or one of its subsi			

^{*}These data are derived from the load specifications for floors, balconies, and stairs in buildings, as outlined in European standard EN 1991-1-1. The maximum load capacities of our products are based on MOR and MOE laboratory tests conducted in accordance with EN 408. However, please note that we are not a certified calculation body, and these values represent our interpretation of the test results.

Fading & Maintenance

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Fused bamboo (dassoXTR and dassoCTECH) is a natural material, so variations in grain and color may occur. Exposure to UV rays and weather will naturally alter its appearance over time. dassoXTR boards feature a rich chocolate tone, while dassoCTECH presents a warm caramel color at installation. Without regular maintenance, both will gradually develop an elegant silver-gray patina, similar to other hardwoods exposed to sunlight. To preserve their original brown tones, we recommend routine care using an outdoor water-based oil or saturator.

dassoXTR



dassoCTECH



Normal Phenomena





Below are photos of projects completed with dassoXTR and dassoCTECH, taken immediately after installation and several years later, without maintenance.

dassoXTR



dassoCTECH

- Park Hyatt Sanya Sun Bay Hotel

Project Reference

- Zhejiang College of Tourism



2021 2024

dasso Warranty

dassoXTR and dassoCTECH offer a limited 25-year warranty against manufacturing defects and guarantee that the material will not suffer structural damage due to fungi or termites during this period, provided the material has been installed and maintained according to our guidelines.

Warranty Details

- · Our outdoor bamboo planks are natural products. Like wood, their grain and color evolve over time with exposure to weather conditions. Color variations are a natural characteristic and cannot be considered a basis for claims.
- · This warranty does not cover damages caused by misuse, impact, insect infestations, force majeure events, or damage due to other unusual circumstances.
- · Purely aesthetic imperfections, such as superficial marks, discoloration from light, microdeformations, or surface wear, are not covered. This warranty does not include damage resulting from improper installation, cleaning, or maintenance. Mechanical or chemical damage is also excluded.
- · This warranty statement supersedes all previous statements; the manufacturer's warranty applies only to the current version.

- · Minor cracks and splits at the end of the planks, as well as surface deformations, may appear. This phenomenon is normal for bamboo, as it is for most types of wood, and cannot be a basis for claims.
- · The surface may become rougher over time due to weather conditions. This is normal for most types of wood and can be resolved with proper cleaning. It is not a basis for claims.
- · Minor dimensional or shape changes of the planks may occur after installation. This phenomenon is normal for bamboo, as it is for most types of wood, and cannot be a basis for claims.

Warranty Conditions

To be eligible for the warranty, the flooring must be installed according to the installation instructions. Please read our installation instructions carefully before installing the flooring. No claims will be accepted in case of improper installation!

- · This warranty is in addition to the buyer's normal legal rights, including the buyer's rights against the seller.
- · If a claim is accepted before the installation of the material, defective planks will be replaced free of charge. No claims will be accepted after installation if the buyer had noticed defects before installation. This warranty does not cover damage caused by third parties (e.g., transport damage).
- · If defects occur after installation, dasso reserves the right either to

repair the defect or provide free materials to the buyer. If the defective product is no longer part of the product range, an equivalent from the current range will be provided.

- · A claim does not extend the warranty period.
- · Replacement costs for materials and other expenses are not included in the warranty.

Warranty Claim Procedure

The claim must be made in writing within 30 days to the dasso dealer/seller, a dasso subsidiary, or directly to dasso's headquarters. dasso reserves the right to verify the claimed damages.



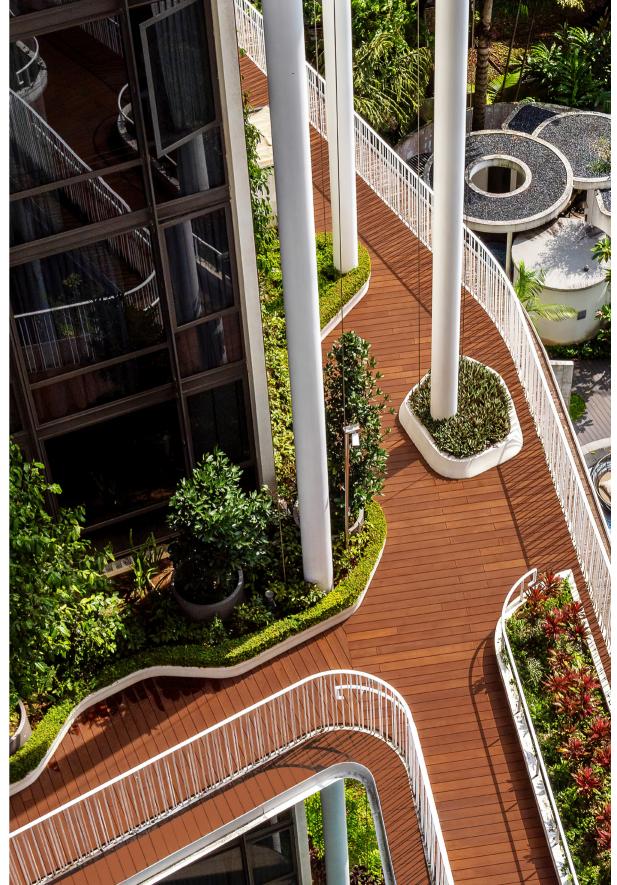


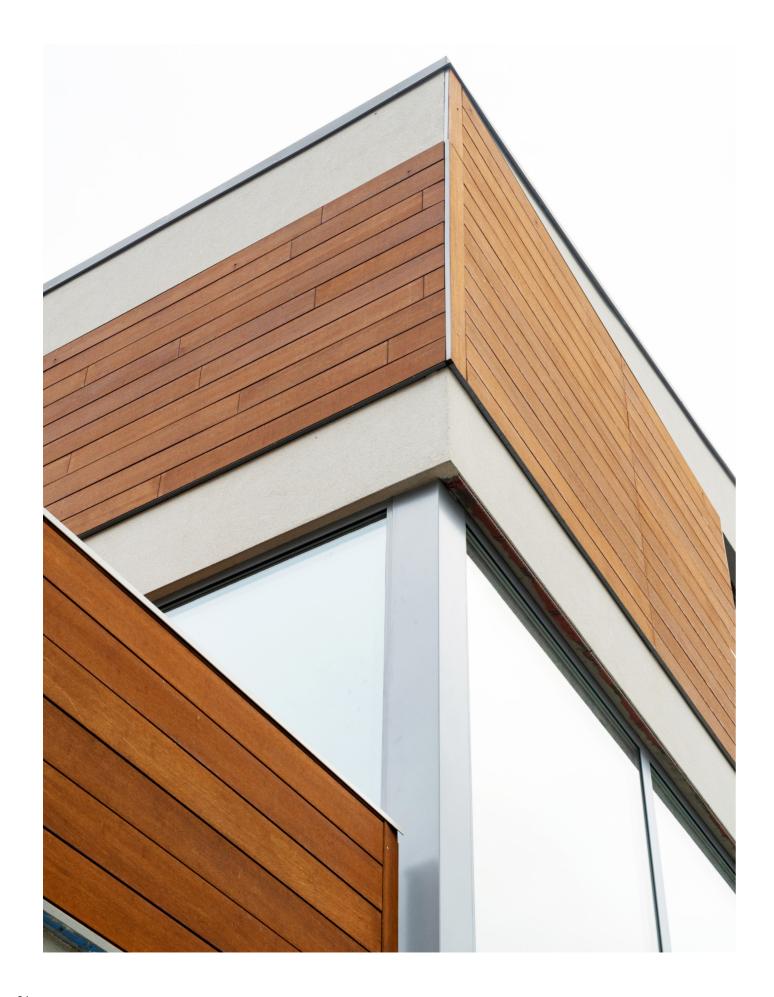
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dasso decking is a trusted solution for outdoor applications worldwide, delivering reliable performance across diverse environmental conditions. Since 2003, it has been used in projects across Europe and other regions, proving its durability and versatility on a global scale.

- Espira Kinrara Resort Hotel / Malaysia
- (¬) The Condo Tembusu / Singapore
- Nikki Beach Club, Koh Samui / Thailand





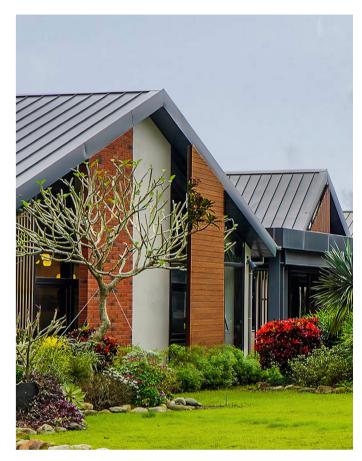


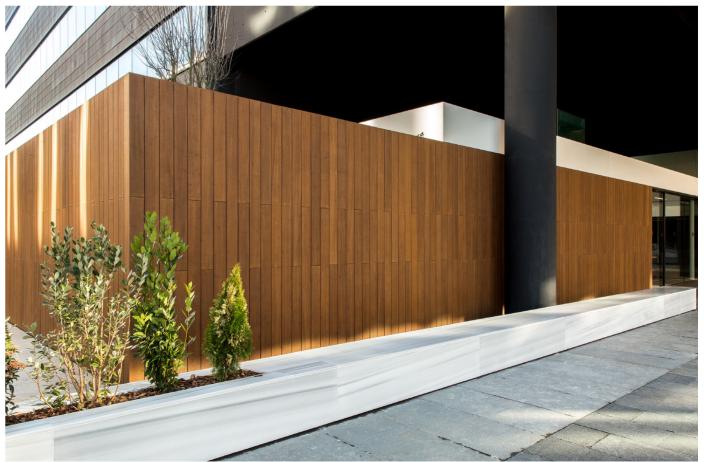
Bamboo Cladding

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dassoXTR and dassoCTECH cladding are an excellent choice for your exterior coverings, combining performance and aesthetics, aging naturally like wood. Our unique FasTrak fastening system is the ideal solution, ensuring a unique aesthetic while reducing waste and speeding up installation by 50% compared to screw-fastened cladding.

- Apartment / Italy
- Healtdeva / China
- World Trade Center Barcelona / Spain







Bamboo Soffits

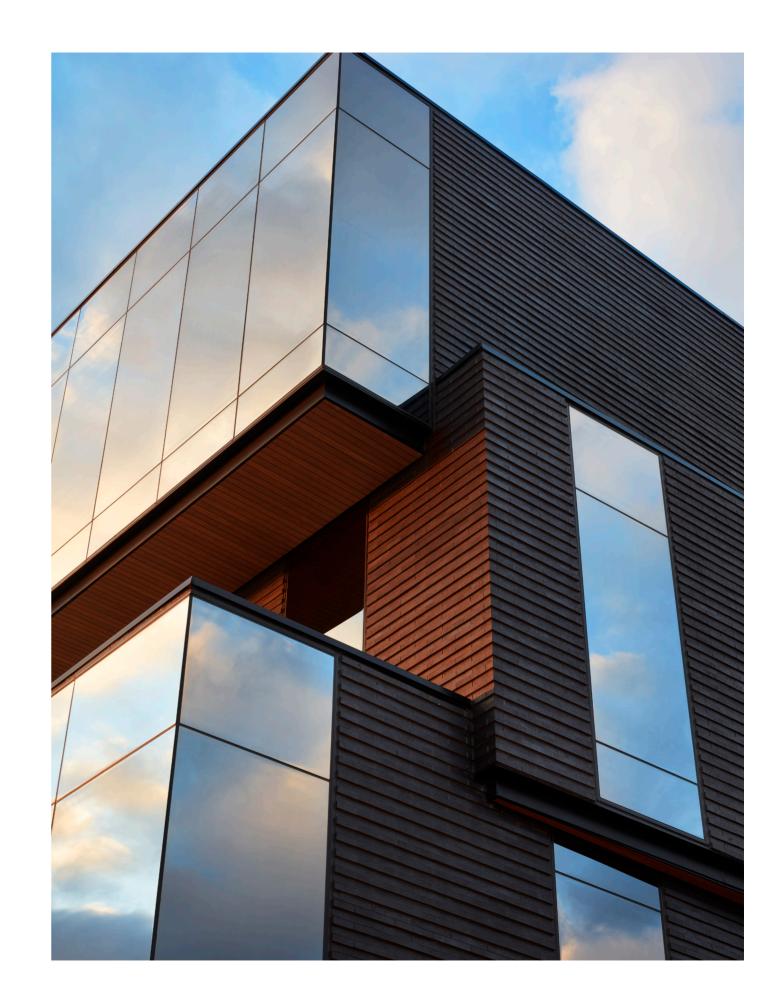
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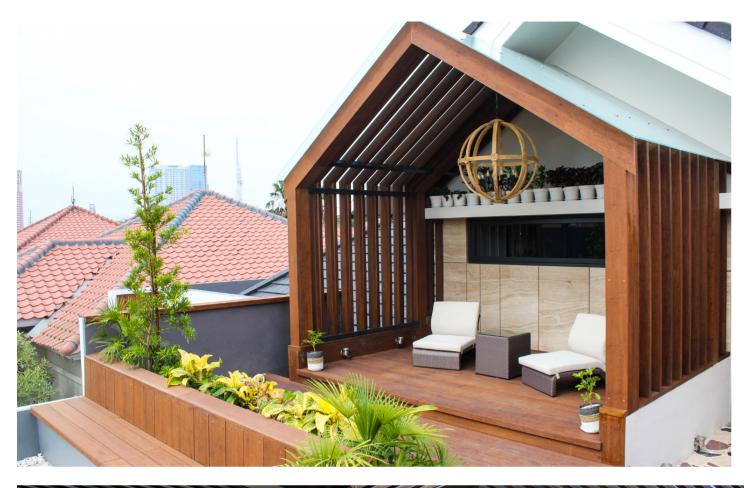
dasso soffit boards are designed for versatile use, both indoors and outdoors.

They are easy to install, provide great stability, and have a flawless finish. Their elegant design adds a refined aesthetic touch, ensuring a harmonious and sophisticated look for any project.

- Surfer's View in Los Angeles / USA
- NanXun Urban Planning Exhibition Center / China
- Nashville-Davidson County Metropolitan Police Department / USA







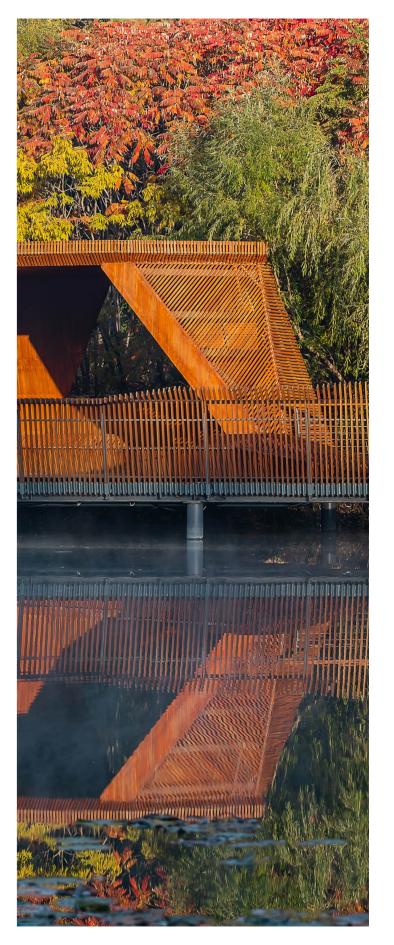
Bamboo Lumber & Panel

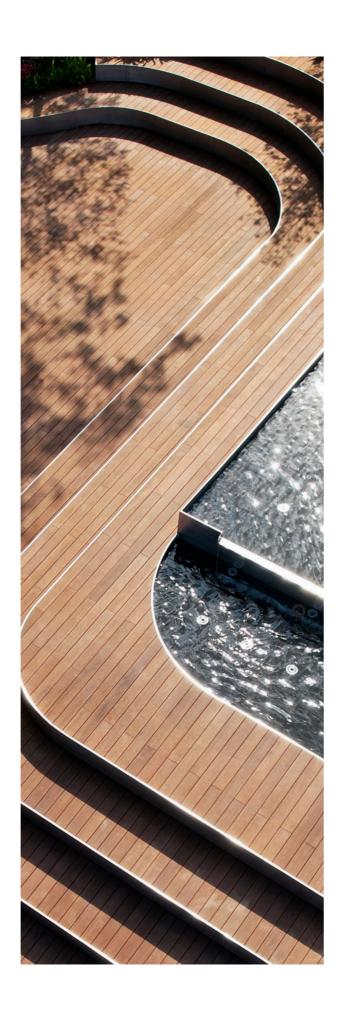
dasso lumber & panel are perfect for facade and outdoor furniture projects.

Their hardness, stability, and elegance make them ideal for projects with high-quality requirements and where the risk of vandalism is present, all while maintaining a sleek and refined design.

- (Private House in Surabaya / Indonesia
- (L) Private Villa in Karachi / Pakistan
- → Changchun Jilin Water Culture Ecological Park / China









Using various bamboo products helps create functional, durable, and aesthetic living spaces inspired by nature. Our approach, focused on innovation and sustainable development, enables us to design environmentally friendly projects while offering elegant aesthetics and remarkable quality.

- Ongguan Link International Information Park / China
- (7) Kokako Heights Whare / New Zealand
- (a) Mandarin Oriental, Lake Como / Italy

















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