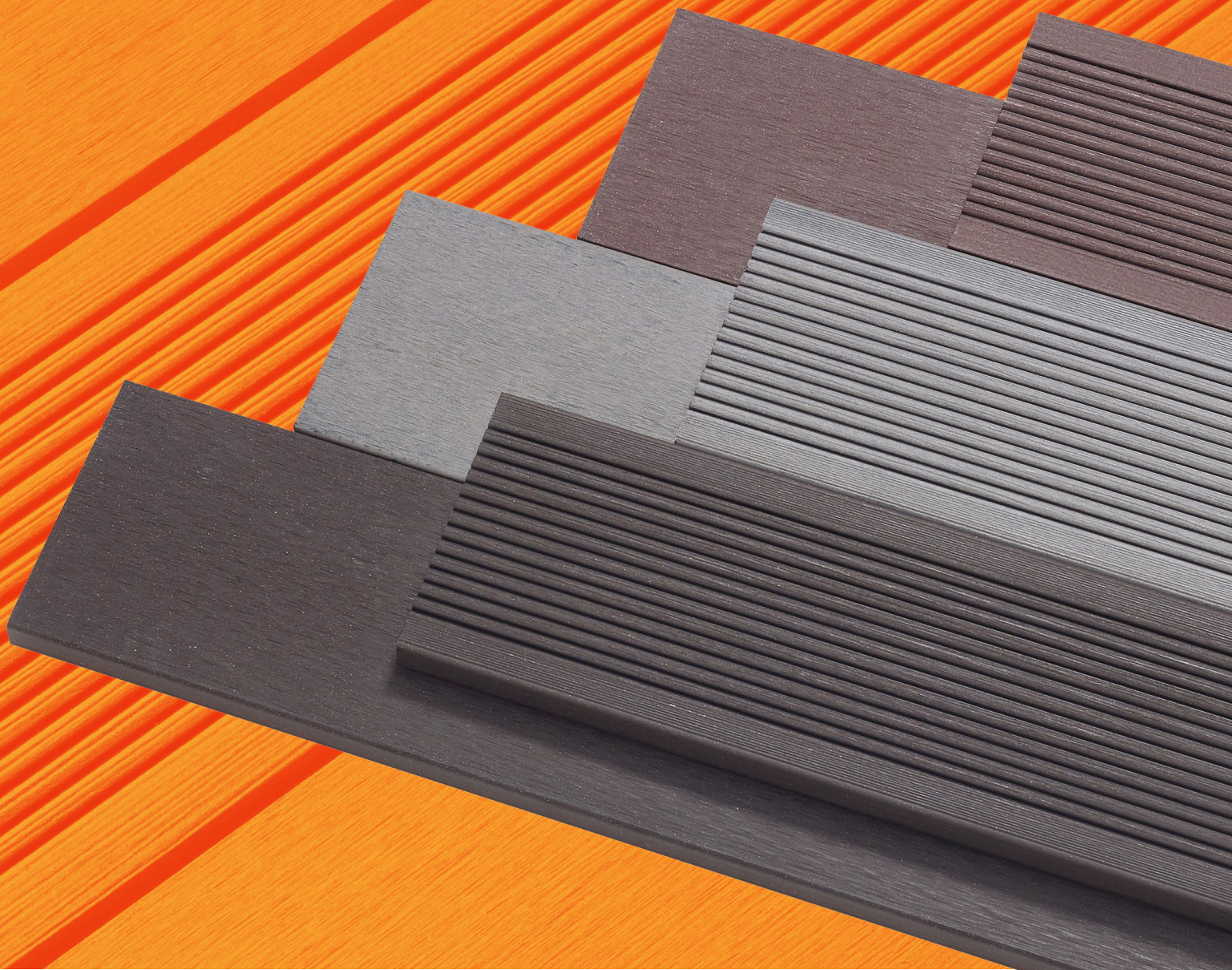




SMART[®] BOARD

COMPOSITE DECKING



Freephone Helpline: 0800 8496339

INSTALLATION GUIDE

SMARTBOARD SOLID



CONTENTS

Introduction	3
Why Choose SmartBoard?	4
Key Facts	5
Boards and Screw Calculator	6
Treated Timber	7
Essential Installation Advice	8
Handling & Storage	9
Recommended Tools	10
Pre-Installation Advice	11 - 12
Installation Guide.....	13
Maintenance & Cleaning	14 - 15
Technical Data Sheet.....	16
Warranty.....	17



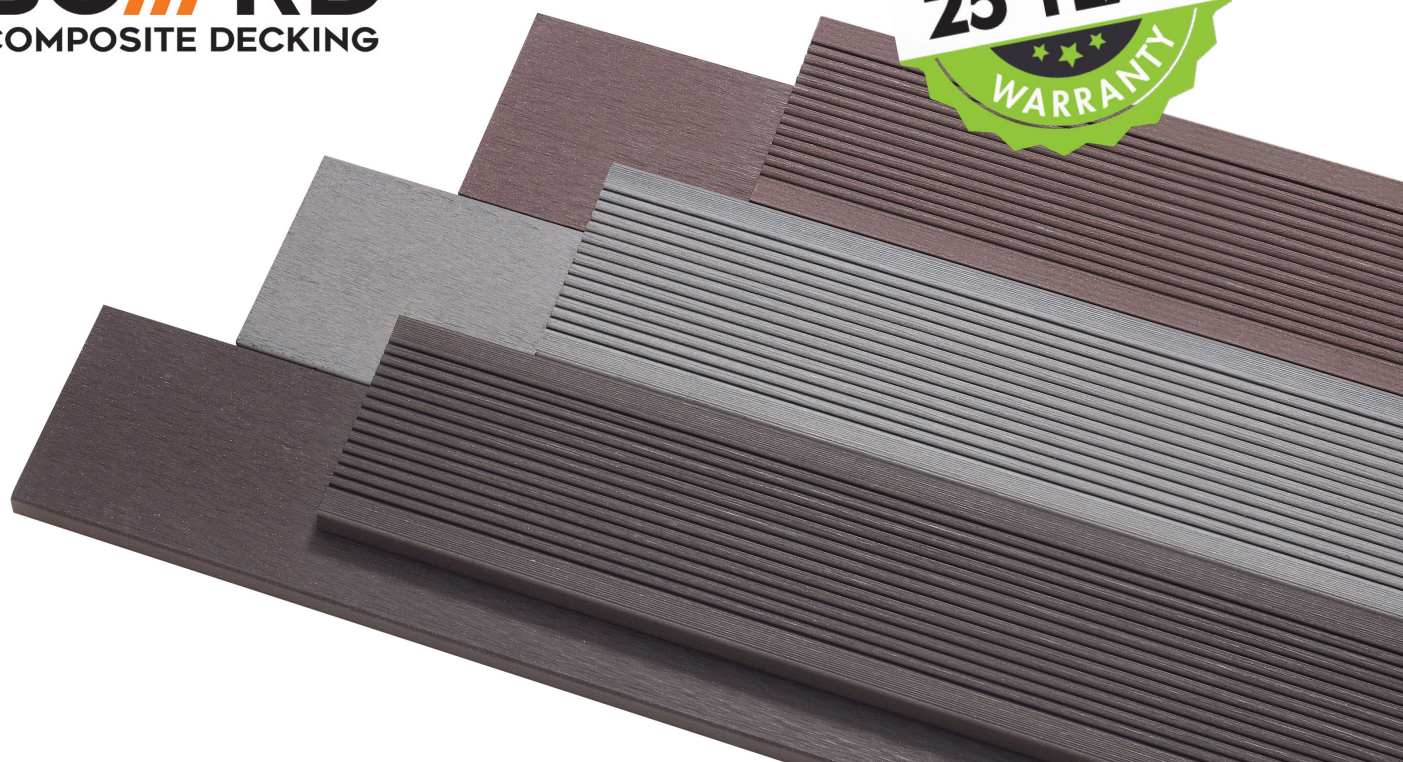
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NEW

TO THE SMARTBOARD RANGE...

Elevating Composite Decking to the next level. SmartBoard Solid outdoor decking – a product designed specifically with your needs in mind. Presenting our high performance Composite Decking, engineered to redefine convenience, durability, and cost-effectiveness in the world of outdoor design.

SmartBoard Solid has a natural looking surface due to its subtle varying colour tones. The solid structure and special formulation of SmartBoard Solid means it can be faced fixed with colour coated screws providing a look more generally associated with timber decks and board-walks. Made from 90% recycled material.



1.

WHY CHOOSE SMARTBOARD?



1. Easy Installation - No need for professional installers!

Our Composite Decking is designed for straightforward, hassle-free installation. With a simple DIY approach, your team can have it up and ready in no time, saving valuable time and resources.



2. Low Maintenance

Tired of costly and time-consuming maintenance for your outdoor spaces? A quick clean with water and soap once or twice a year is all it takes to maintain its appearance, allowing you to focus on enjoying your deck!



3. Durability

Unlike traditional wood decking, our composite material boasts exceptional strength and resilience. It resists rot, warping, and cracking, ensuring that your investment remains sturdy and beautiful for years to come. This means less frequent replacement and lower long-term costs.



4. Splinter and Stain Resistant

Our composite decking range is engineered to be splinter-free, offering a comfortable and safe surface. Additionally, it's highly resistant to staining, ensuring that accidental spills and messes won't mar its appearance.



5. Budget Friendly

SmartBoard Solid offers outstanding value for money. It combines the best of quality and affordability, making it an ideal choice for those seeking to maximize your return on investment.

2.

KEY FACTS

Available in 3 timeless colours:



Slate



Battleship
Grey



Chocolate
Brown

- **Looks like decking: Is simple to fix!**
- **Style:** Solid Core - Smarter looking compared to our competitors equivalent, tactile brushed matt finish available in a range of naturally varying colour tones.
- **Smarter Look:** compared to other competitors, tactile wood grain finish.
- **Colour:** Slate, Battleship Grey, Chocolate Brown
(Like other composites the colour will lighten over first few months and then settle)
- **Decking Size:** 20 x 138 x 3600mm
- **Pack size:** 112pcs /pack
- **Reversible profile:** Smooth/Ribbed
- **90% Recycled:** 60% Timber (Recycled Wood Waste), 30% Recycled high density polyethylene and 10% additives. Special additives minimise longitudinal expansion.
- **Fixing:** Face Fix - Special screws must be used with impact driver. 2 screws per joist. Fit SmartBoard decking screws (20 per board at 400mm centres, 26 per board at 300mm centres) through 4.5mm pre-drilled holes using drill bit supplied with screws, taking care to align the head of the screw flush with the surface of the decking. Screw position 20mm in from edge.
- **Subframe:** Fit SmartBoard Solid over double joist construction where boards are laid end to end. We recommend you use SmartFrame for the subframe.
- **Span:** 400mm joist centres domestic loading (commercial TBC)
When laying SmartBoard Solid in a diagonal 45 degree pattern the supporting joists must be brought in to 300mm centres.
- **Gaps:** 5mm between boards and ends of adjacent boards, 10mm gap against a permanent structure.
- **Weight:** 3.7kg/m
- **Warranty:** 25 years residential, 10 commercial/public
(Please visit our website for full details and instructions)



3.

BOARDS & SCREW CALCULATOR

The table below gives you a rough guide to how many boards you need for a given area. In practice every deck is a different size and shape and this will need to be taken into account when planning the deck also allowing a percentage on top for waste.

If the deck is longer than 3.6m you will need to calculate where your end to end joins will be in order to incorporate these positions into your substructure design for double joisting.

It is important to follow the instructions and adopt good site practice when installing the deck. Make sure that the surface of the deck is kept clear, tidy and is protected during construction in order to avoid any damage or accidents.

	Coverage of Decking in Metre ²														
	1	2	3	4	5	6	7	8	9	10	20	30	40	50	60
Linear Metre	7	14	21	28	35	42	49	56	63	70	140	214.3	285.7	357.2	428.6
Screws Required	40	80	120	160	200	240	280	320	360	400	400	1200	1600	2000	2400
Boards Required	2	4	6	8	10	12	14	16	18	20	40	60	80	100	120

Boards and Screws Calculator Table (400mm Centres)

4.

TREATED TIMBER

To ensure you get the best return from your investment for your deck, it is money well spent to make sure that the materials used for the substructure are suitably treated for the task they are being asked to perform.

Make sure that any timber exposed by cross-cutting, notching or boring after treatment must be adequately protected using an end grain preservative, in accordance with the manufacturers instructions.

Preservatives such as Cuprinol's Wood Preserver by Akzo Nobel Ltd or Rustin's End Grain Protector.



WOOD PRESERVATIVE



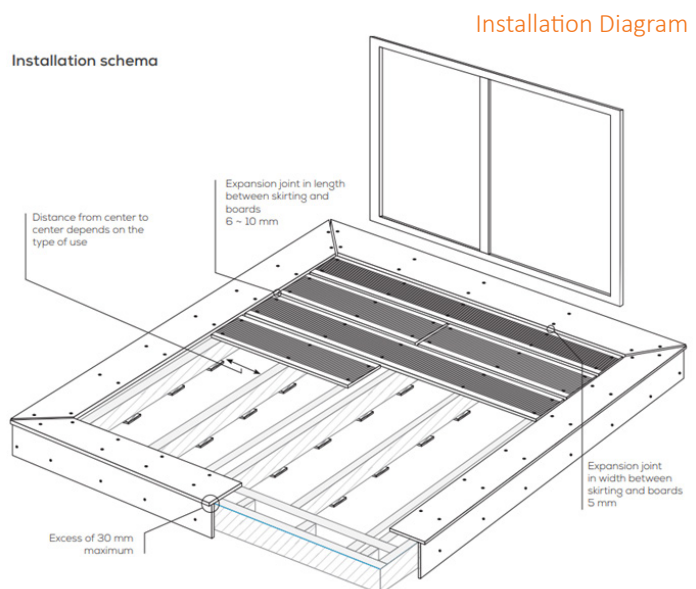
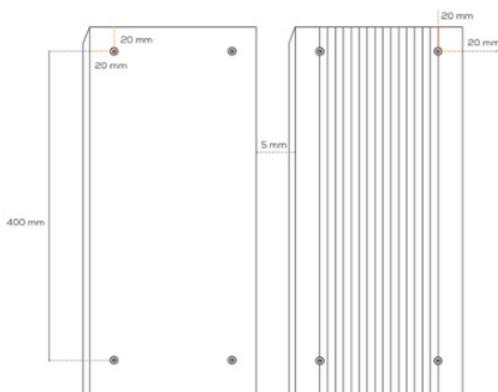
WOOD PRESERVATIVE
WITH BUILT-IN COLOUR

INTERIOR	EXTERIOR	
Use Class 2	Use Class 3(u)	Use Class 4
Above the ground or DPC, covered	Above the ground (uncoated)	Ground or fresh water contact (and exterior structural support)
Internal construction timbers within the building envelope: Tiling battens, framing and roof timbers, internal joists, sole plates.	External construction timbers: Deck boards, fence rails and boards, cladding (including battens) and fascias.	External construction timbers: Fencing, fence posts, agricultural timbers, retaining walls, playground equipment, decking posts, joists and sub-structures.

5.

ESSENTIAL INSTALLATION ADVICE

- Fit over joists placed at 400mm centres, when boards are perpendicular to joists.
- Fit over joists placed at 300mm centres, when boards are aligned at 45 degrees to joists.
- Maintain a 5mm gap between ends and sides of all adjacent boards.
- Maintain a 10mm gap between ends and sides of boards adjacent to a permanent structure/fixture.
- Fit SmartBoard over double joist construction where boards are laid end to end.



- Using the drill bit supplied in each box of SmartBoard Solid screws, pre-drill two 4.5mm pilot holes at every joist junction, taking care to maintain a 20mm distance to any edge and not to drill into the joist below. Fitting screws through pre-drilled 4.5mm holes:

- ☐ Eliminates excess drive friction for an easier & better job.
- ☐ Reduces the chance of damaging the screw heads protective coating, resulting in a neater finish.
- ☐ Screw head depth will be easier to control regardless of the type of drive tool used
- ☐ Extracting screws will be easier should a board need removing in the future.

- Maintain 5mm gap between adjacent planks & between planks & skirting; increase up to 10mm between the ends for hot, humid, poor ventilated areas.

6.

HANDLING & STORAGE

RECOMMENDATIONS FOR SMARTBOARD SOLID STOCKISTS & FITTERS:

- It is best to store SmartBoard Composite Fencing inside/undercover in shade, and protected from weather until ready to install.
- Pick orders from the specially designed pallet provided.
- If boards are to be stored in A-Frame racking then at least 1 mid-term support is required otherwise boards may deform slightly, not an issue but might be perceived as so when received on site.
- Re make orders using sheet polystyrene, as used to separate SmartBoard Solid in its pack form as shown. This will help minimise marking and help restrict boards from sliding in transit.
- When ratchet banding up a set of boards, always protect the corners of the 4 exposed edges to avoid crushing.
- Placing, rather than sliding boards on top of one another is preferable when moving boards about on site as sliding boards over one another may cause marking.
- On site, ensure boards are stored flat, off the ground and with sufficient support (every 600mm).

7

RECOMMENDED TOOLS

- ☐ Safety Glasses/ Relevant PPE
- ☐ Tape Measure
- ☐ Pencil
- ☐ Spirit Level
- ☐ Power Drill
- ☐ Set Square
- ☐ Hand Saw or Mitre Saw
- ☐ Jigsaw
- ☐ Appropriate blades for cutting composite material



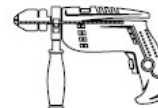
Safety Glasses



Circular Saw



Tape measure



Power Drill



Rubber Mallet



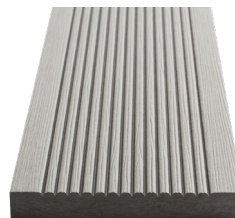
Spirit Level



Safety Gloves

DECKING & ACCESSORIES

- ☐ Deck Boards
- ☐ SmartFrame & Support Joists
- ☐ SmartBoard Solid Screws (matching colour)
- ☐ Stainless Steel Screws
- ☐ Screw Bit
- ☐ Drill Bit (with depth setting)



8.1

PRE-INSTALLATION ADVICE

Please refer to our PDF information guides on planning a deck, getting started and building a deck, all available on our website: stamco-hoppings.co.uk



Read all of this manual before you begin laying the boards!

Following the installation and maintenance instructions below will determine the longevity and warranty of your product. This notice provides general installation cases.

INSTALLATION OF SUBSTRUCTURE

- The structural timber joisting used for supporting Smartboard decking should be fit for purpose. We would recommend our Smartframe product as the most suitable. See our website for more information: stamco-hoppings.co.uk
- We advice not to sink or enclosed the deck. If necessary, always allow airflow by using larger gaps and air vents.
- Take into account the direction you want the boards to lay when planning a substructure, we would normally recommend them being perpendicular to the joists at a maximum of 400mm centres. Plan where your deck boards are going to run end to end to allow for double joisting.
- For a free draining deck surface, you must incorporate a gradient in one direction for your deck.
- Joists should be fixed to a secure post which is suitably treated timber (UC4) or a concreted post secured into a concreted foundation.
- If the deck is going onto solid foundations or a flat roof capable of supporting a deck then the substructure may well be supported using adjustable support pedestals. (SmartBase)
- A gap of 10mm needs to be left between the substructure and adjacent permanent structures.

8.2

PRE-INSTALLATION ADVICE

BEFORE FIXING THE DECK BOARDS TO THE JOISTS

- Before installing the deck, make certain that all the boards have a uniform colour. Slight differences in colour and appearance in the boards may occur, mix the boards over the deck to distribute the nuances over the entire area and lay them out in such a way that areas with different nuances are not laid out next to each other.
- Avoid bevel cutting angles less than 45°.
- Maintain a 5mm gap between adjacent boards & between ends of the boards & fascias; increase to 10mm between the ends & for hot, humid, poor ventilated areas and where board butt up against a permanent structure.
- The deck boards must be fitted over at least 3 joists. They must not overhang the joists by more than 30mm whether it is at the border of the deck or at the junction where 2 boards meet.
- To ensure you get the best return from your investment for your deck, it is money well spent to make sure that the materials used for the substructure are suitably treated for the task they are being asked to do. See our website for SmartFrame at: www.stamco-hoppings.co.uk



CLEAN IMMEDIATELY AFTER INSTALLATION

SmartBoard Duo-Lite is a low maintenance product, and it is important to clean it immediately after installation followed by a regular periodical cleaning.

Clean the entire surface thoroughly using a rigid non-metallic brush and water to eliminate any dust or construction residue. During this period, humidity stains and hallos may appear on the boards. These stains are normal and they will fade away with the weather as long as they are properly exposed to UVs and rain.

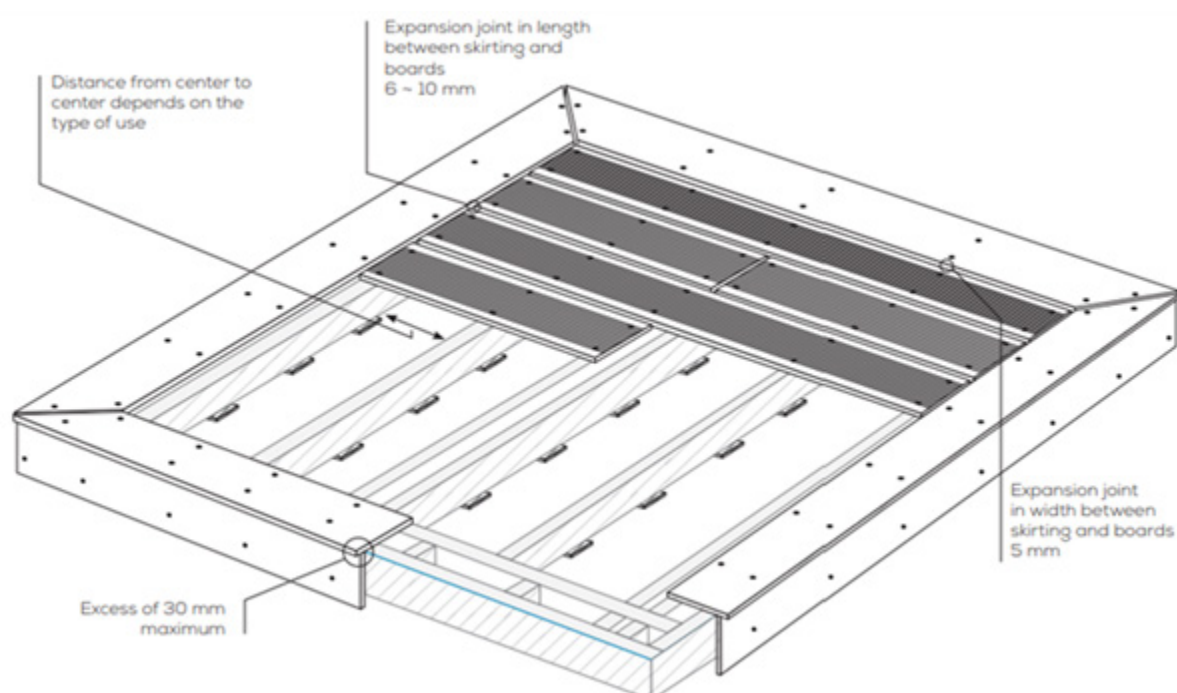
After the transition period the boards colour will be close to the original colour and will stay that way. Although these humidity stains and hallos vanish naturally with the weather, it is still possible to eliminate them by cleaning the surface once or several times along the length of the boards with the appropriate product.

9.1

INSTALLATION GUIDE

FIXING THE DECK BOARDS TO THE JOISTS

1. Please take into consideration the boards temperature when laying. If the weather conditions are particularly warm these may need tighter gaps during installation.
2. The boards should be supported by two sub-frame joists, positioned 25mm apart as shown on the image below. This allows the ends of the decking boards to be supported, whilst also allowing water
3. It is important to follow the instructions and adopt good site practice when installing the deck. Make sure that the surface of the deck is protected during construction in order to avoid any damage.
3. SmartBoard Solid is a low maintenance product, and it is important to clean it immediately after installation followed by a regular and periodical cleaning.



10

MAINTENANCE & CLEANING

REGULAR MAINTENANCE

Sweeping - Regularly sweep in order to prevent moss, algae or mould from developing on the surface. A thorough cleaning twice a year is recommended using a broom with non-metallic rigid brush to clean the surface.

Cleaners - To prevent grime, hydrocarbons, grease and water stains on composite timber, use an appropriate cleaner, such as Starbrite Concentrate Cleaner for Composite Timber (Ref. 1432), or a similar product based on surface-active agents.

High pressure cleaning - Max. 100 bar, using a mild detergent, is authorised. Hold the water jet at least 30cm away and at a 45° angle and clean across the surface. Avoid circular jet movements.

After every cleaning, immediately drain all the rinsing water from the surface using a squeegee.



Smartboard mainly contains natural components thus variations in colour or texture are likely to appear over time.

The variations in the shades mainly occur during the first 6 months following the installation after which the colour tends to stabilise, with a natural shade noticeably lighter due to the water that was absorbed by the timber fibres and the effect of the UVs.



Like any outside decking, the composite deck boards are likely to be scratched over time, which becomes part of the product's normal patina.

We would recommend that furniture placed on the deck be fitted with protective pads to prevent scratching.



Do not let stains get infiltrated and embedded into the rough patches of the surface.

It is preferable to eliminate them as soon as possible. Use water, a mild cleaning detergent, a non-metallic brush and a sponge.

For full details on cleaning and maintenance visit www.stamco-hoppings.co.uk



SMART BOARD™

GREASE AND OIL STAIN REMOVER

**TREATS GREASE AND STUBBORN OILY STAINS
ON COMPOSITE AND TIMBER DECKING.
JUST SPRAY ON AND BRUSH OFF!**



INSTRUCTIONS:

1. Shake well before use.
 2. Holding can upright, spray directly onto the product at a distance of about 10-25 cm so stain is completely covered. Apply liberally.
 3. Allow to work for at least 10 minutes until the product is completely dry then brush or wash off with luke warm soapy water.
 4. If necessary repeat the operation on tougher stains.
- Store only in the original container in a dry, cool and well ventilated place away from direct sunlight.

IMPORTANT: Always test on hidden or inconspicuous area of deck first to ensure colour is not adversely effected. Over exposure may result in a slight discolouration or lightening of timber.

Complete stain removal cannot be guaranteed. The sooner stain remover is used on fat stained decking the greater the chance of removal. Fat stains may become more difficult to remove the longer they are left untreated and deeper they penetrate any absorbent material.

DANGER WARNINGS:

- Repeated exposure may cause skin dryness or cracking. Extremely flammable aerosol. Pressurised container, may burst if heated. Causes serious eye irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects. Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Protect from sunlight.
- Do not expose to temperatures exceeding 50°C/122°F.
- CONTAINS: Acetone; Propan-2-ol; Cyclohexane.



200ml e 270 3

5.

TECHNICAL DATA SHEET

SmartBoard Duo Composite Decking

PRODUCT DETAILS	Article Number	ND60
	EAN Code	N/A
	Composition	54% Natural Wood Powder, 46% HDPE & Additives
	Profile	Dual side - Smooth, Reeded
	Fixing	Face Fix - - Special screws must be used with impact driver
	Colours	Slate, Battleship Grey, Chocolate Brown
	Section / (mm) (t*w)	20 x 138
	Length (mm)	3600
	Linear mass (Kg/m)	3.7kg/m

TECHNICAL PROPERTIES	Flexural properties	Density	1350 Kg/m ³
		Bending strength	34.5 Mpa
		Modulus of elasticity	4.90 Gpa
		Maximum load	Mean: 3252 N, Min.: 3007 N
		Deflection at 500 N	Mean: 1.49mm, Min.: 1.56mm
	Determination of moisture resistance under cyclic test conditions	Original MOR	34.5 Mpa
		After exposure	Mean MOR: 29.6 Mpa
			Mean Decrease: 14%
			Min. MOR: 27.3 Mpa
			Max. Decrease: 21%
	Coefficient of linear thermal expansion	ASTM D696-16	48.7 x 10 ⁻⁶ mm/mm/°C
	Boiling	EN15534-1 - Section 8.3.3 and 8.3.1	Mean: 0.49%, Max.: 0.56%
	Swelling after boiling (28 days immersion)	Mean swelling	3.06% in thickness 0.10% in width 0.09% in length
		Max swelling	3.35% in thickness 0.13% in width 0.13% in length
		Water absorption in weight	Mean: 0.69%, Max.: 0.70%
	Slipperiness (Pendulum test)	Dry Conditions	Mean: L:64 H:86, Min.: L:60 H:84
		Wet Conditions	Mean: L:42 H:53, Min.: L:40 H:52
	Fire behaviour	EN 15534-4, Cfl-S1	

LOGISTICAL INFORMATION	On pallet L= 3600 mm	Quantity	Working (m ²)	Net weight (Kg)
	Composite board 138mm	112 pcs	55.64m ²	3.7Kg/m

DETAILS DESCRIPTION	Our SmartBoard Decking, a B2B-friendly solution that combines easy installation, low maintenance, incredible durability, splinter and stain resistance, all while remaining budget-friendly, redefining outdoor design for commercial and private use.
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COLOUR CHANGE	Capped composite materials can experience colour variation over time due to factors like UV exposure, weathering, staining, and maintenance practices, which can result in fading, discolouration, and surface changes.
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NORMS	Technical Characteristics	Norm
	• Density	ISO 1183-1
	• Flexural properties (Bending Strength)	
	• Flexural properties (Modulus of elasticity)	EN 15534-1
	• Flexural properties (Maximum load (mean and min.))	Annex A
	• Flexural properties (Deflection at 500 N (mean and max.))	
	• Moisture resistance under cyclic test conditions (Original MOR and After Exposure)	EN15534-1
	• Coefficient of linear thermal expansion	ASTM D696-16
	• Boiling	EN15534-1 - Section 8.3.3 and 8.3.1
	• Slipperiness	EN15334-1 - Section 6.4.2, CEN / TS 15676
	• Fire behaviour	EN 15534-4, Cfl-S1

CERTIFICATES





WARRANTY

25 Year (Residential), 10 Year (Commercial) Warranty

Stamco Hoppings hereby certify that when fixed appropriately in accordance with the relevant design guidance SmartBoard shall be deemed under warranty for a period of twenty-five (25) years (residential use) and ten (10) years (commercial/public use) from the date of original purchase. SmartBoard products shall not split, splinter or suffer structural damage as a sole and direct consequence of termites, insects or soft rotting micro-fungi.

LIMITATIONS

For a period of ten (10) years from the date of original purchase, SmartBoard products shall not break. However this warranty explicitly excludes occurrences where the break occurs or may have occurred as a consequence of impact loads or poor design/construction methods.

This warranty applies to the use of products in normal residential use. Contact Stamco Hoppings Quality Timber Products on 01992 578877 or 01424 856856 if you require a warranty for a deck that is to be created in a commercial type situation.

WHAT'S NOT COVERED

This warranty does not provide protection against misuse, abuse, neglect or improper storage or handling. Stamco Hoppings cannot be held responsible for product failure due to improper installation or failure to abide by Stamco Hoppings fitting instructions. It also excludes the discolouration/staining of the products due to:

- Air borne pollutants, such as mould, algae, leaf litter and any deposits from plants and trees.
- Any other foreign substances.
- Variations in colour, texture or appearance from one board to another.
- Changes in colour associated with weathering effect of ultra violet light.

UNDERTAKING

The warranty is for the cost of re-supply, by Stamco Hoppings, of a component that is proven to have failed as a result of fungal decay or insect/termite attack, FREE OF CHARGE. It does not cover the costs of removal or reinstatement of such components or consequential costs or loss due to failure of the component. The term 'fungal decay' as used in the warranty refers to wood destroying fungi that feed on and degenerate the wood cell walls. It excludes staining and mould fungi associated with the weathering of wood. The term 'failed' refers to damage caused by fungi, insects or termites to such an extent that the component is no longer fit for purpose. In the event of a valid claim being resolved via the supply of a replacement board(s) the colour may be a slightly different.

STATUTORY RIGHTS

This warranty is in addition to the purchaser's normal statutory rights. The warranties are wholesaler/manufacturer to consumer/buyer warranties. However the initial raising of a complaint should be directed to the authorised retailer from where the goods were purchased. The complaint should be made in writing/e-mail and must include proof of purchase i.e. a copy or scan of the original invoice.

The term 'fungal decay' as used in the warranty refers to wood destroying fungi that feed on and degenerate the wood cell walls. It excludes staining and mould fungi associated with the weathering of wood. The term 'failed' refers to damage caused by fungi, insects or termites to such an extent that the component is no longer fit for purpose. In the event of a valid claim being resolved via the supply of a replacement board(s) the colour may be a slightly different.



Freephone helpline:

0800 849 6339

If you need help with installation or have any questions about SmartBoard products, simply call our friendly team.

