

GRIPDECK® DECKING SPECIFICATION: GROOVED SOFTWOOD 28X145MM (EUROPEAN REDWOOD) / COMMERCIAL GRADE / STANDARD AGGREGATE

Bauxite aggregate - Ages better and won't polish up smooth, like carborundum. Square cut grooves - We square cut for a better bond than a V shaped groove. Epoxy resin - Epoxy provides a more reliable bond than cheaper polyurethane resin. Grade 5 softwood - Tanalised timber, 15 Year Warranty, fewer live knots.

GripDeck® Softwood Decking (Grooved 28x145mm) is a 5th Grade Scandinavian Redwood. Tanalised softwood with a 15 Year Warranty. 2 x GripDeck® inserts using our fine commercial grade bauxite, which is hardwearing but more gentle on skin to touch, which means it is possible to walk on without shoes.

GripDeck® inserts are factory applied to the customer's softwood or hardwood timber in one of our approved manufacturing facilities in the UK. Specialist epoxy resins and hardwearing bauxite anti slip aggregates are injected into square cut grooves in the decking and allowed to cure. The aggregate of the finished inserts sit approx. 1-2mm proud of the timber surface, to provide an excellent hardwearing anti slip finish. See the anti slip test results.

Specifications:

GROOVE TYPE	The cross section shape of the grooves should always be square cut or dovetailed along entire length of timber. 'V' shaped grooves are unsuitable as they can result in a weaker less reliable bond with the timber. We recommend machining them to square, to ensure the best possible bond between GripDeck® insert and timber.
GROOVE SIZE	6.5mm wide / depth: 4.5 mm deep
RESIN	Solvent and Diluent free epoxy with fillers
MECHANICAL PROPERTIES	Tensile Strength 50 N/mm ² (7 days) Flexural Strength 90 N/mm ²
AGGREGATE TYPE	ASC Guyanan Bauxite - superior to carborundum
COLOUR	Grey - other colours available in a pigmented quartz
MINIMUM PARTICLE SIZE	0.5mm - 0.9mm - other sizes available, including fine 0.25 to 0.5mm
POLISHED STONE VALUE	80 - will not polish up and become smooth
AGGREGATE ABRASION VALUE	3.1 - possible to walk on without shoes
AGGREGATE CRUSHING VALUE	34 - will protect against impact damage
HARDNESS (MOHS SCALE)	9 - close to diamond. Keeps anti-slip qualities longer. (Aggregate properties as defined by BS 812)

GripDeck® Inserts Anti Slip Test Results:

GripDeck® inserts are tested in laboratory conditions in accordance with guidelines recommended by the UK Slip Resistance Group. The tested were carried out using a Stanley Pendulum Test (processes are described in BS7976: 2002 Part 1 - 3 & UKRSG Guidelines 2005). The results are then compared against the following categories to give a potential for slip value.

GripDeck® inserts have produced the following results:

DECKING PROFILE	DRY RESULT	WET RESULT	VALUE
GROOVED 28X145MM 2 X GRIPDECK® INSERTS	99	72	Low
GROOVED 28X145MM 3 X GRIPDECK® INSERTS	101	86	Low
SMOOTH 30X120MM 2 X GRIPDECK® INSERTS	100	81	Low

Guidelines:

SCORE	SLIP POTENTIAL
2.5 & BELOW	High Potential for slip
2.5 - 3.5	Moderate Potential for slip
3.5 & ABOVE	Low Potential for slip

GripDeck® Anti Slip Aggregate Guyanan Bauxite:

Guyanan RASC Bauxite is manufactured in a rotary kiln at 1650C and forms a high alpha alumina bauxite with a mullite matrix and low alkalis. It is used for the manufacture of high alumina refractory monolithics and shaped products and as a road dressing aggregate for high friction surfacing.

GripDeck® Inserts Spacing for best results:

We always recommend 2 x GripDeck® inserts per standard size deck board (approx 145mm wide) Why 2 x GripDeck® inserts per board? This is simply to make sure that even the smallest of feet will always be in contact with a GripDeck® insert when walking across the decking.

Can I use only 1 x GripDeck® insert? If you only have 1 insert in a board 145mm wide, this will leave a gap of approx 145mm between each insert when you install your decking and include the 5mm gap between boards. The gap between the anti slip is far too wide. If you board is much narrower, around 80mm then 1 x GripDeck® insert would be acceptable.

How far apart should my GripDeck® inserts be? We would recommend a gap of between 70mm and 85mm between each insert.

GripDeck® Inserts Flat board / smooth groove spacing:

If you are machining a standard 145mm flat board to take 2 x GripDeck® inserts, we would recommend you machine your grooves 30mm in from the sides of the deckboard, leaving a 72mm space between the two 6.5mm inserts in the centre of the board.

GRIPDECK® PANELS / GRIPDECK® RAIL PANELS

All GripDeck® Panels and GripDeck® Rail Panels are made to order which means your options are many and varied and detailed specifications will of course vary but the general specifications are as follows: 100% Birch, fully encapsulated in epoxy resin and surfaced with a hard wearing aggregates. Panels can be fastened to timber, steel or concrete decks and an expected life expectancy of 25 Years. All panels are load bearing with 100% Coverage.

Choose from the following panel options - size & shape, colour, board strength, fixing hole, aggregate size, edging profile.

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RETROGRIP®

RetroGrip® anti-slip inserts are a highly attractive, easily installed and cost effective slip-resistant solution for existing grooved decking. RetroGrip® inserts are supplied as aluminium inserts, filled with epoxy resin and hard wearing aggregates. Fitted with nothing more than a line of adhesive, it couldn't be easier to add a slip resistant finish to your existing decking. In areas of uneven decking or in high footfall areas, you may need to fix using adhesive and RetroGrip® screws. See installation guides on our website for more information.

Standard Length 1.0 metres, other Lengths - please enquire, width 12 mm, weight 0.06 kg/m, compatibility - fits most grooved decking profiles. We recommend customers request a free sample to ensure it fits your existing decking before placing an order.

Aluminium Base: Alloy extrusion 6063 T6 to BS EN573 & BS EN755. Aluminium Finishes: Standard Silver or Grey Powder Coated. Resin: Solvent and diluent free epoxy Aggregate: RASC Guyanan Bauxite or Dynagrip. Standard Aggregate Colour: Standard Grey or Black. Minimum particle size: 0.5mm Cutting - RetroGrip® inserts can be cut with an angle grinder, using a metal cutting disc or diamond blade. We recommend the following PPE: Gloves goggles, dust mask and ear defenders.

Specification and installation information for the complete range of GripDeck® products can be found online at www.gripdeck.co.uk. Get in touch if you have any questions and we will more than happy to answer them.