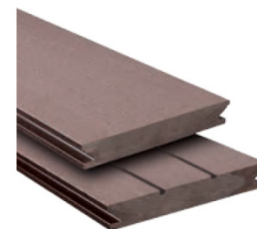


## Terrafina Solid Composite Deck Boards

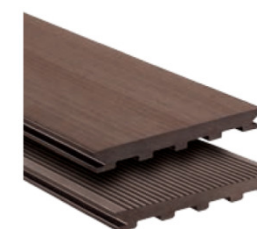
Product Dimensions	Excel Board	Ultra Board
Board width x depth	146 x 21mm	196 x 21mm
Board length	4000/4500/5000/5500/6000mm	4000/5000mm
Finishes available	Plain or Yacht Deck	Plain or Ribbed
Material specification	LIGNODUR-terrana PVC-WF 56	

Qualities according to the VHI quality label (average)	Standards	Measured value		Limit	
		Excel	Ultra	Excel	Ultra
Breaking load of a deck board, 20°C, fresh*	EN 310	≥3900N	≥3400N	≥3400N	≥3200N
Breaking load of a deck board, after aging*	EN 310	≥3700N	≥3000N	≥2720N	≥2560N
Deflection with load of 500 N, 20°C*	EN 310	≤1.7mm	≤2.0mm	≤1.8mm	≤2.0mm
Creep characteristics: deformation with 85 kg for 7 days at 50°C*	EN ISO 899-2	≤3mm	≤5mm	≤13mm	≤10mm
Water storage Absorption of water - 5 h, 100°C	EN 317	≤5.2%	≤2.0%	≤7%	≤8%
Water storage Length expansion - 5 h, 100°C	EN 317	≤0.2%	≤0.2%	≤0.3%	≤0.5%
Water storage Width expansion - 5 h, 100°C	EN 317	≤0.2%	≤0.2%	≤0.7%	≤0.8%
Water storage Thickness expansion - 5 h, 100°C	EN 317	≤2.2%	≤2.2%	≤4%	≤4.5%
Anti skid wet & dry	EN 13839	0.67 = R12	0.67 = R12	≥0.43	≥0.43
	DIN 51097	28° = C	35° = C	≥C	≥C
Coefficient of thermal expansion lengthwise	ISO 11359-2	20.6x10-6/k	24.0x10-6/k	-	50x10-6/k
	l=4m, dT=40K	3.3mm	3.8mm	-	8mm

\* 480mm inside distance between supports



Excel



Ultra

### Description

Solid composite decking boards manufactured from LIGNODUR, a PVC compound containing in excess of 50% wood fibre. High-quality stabilizers and pigments give the product excellent durability. Available in a range of board lengths and two styles (Excel and Ultra). Finishes available depend upon the chosen style (Excel available in Plain or Yacht Deck, Ultra available in Plain or Ribbed).

### Applications

For use on balcony and terrace areas in public or private locations.

### Installation Information<sup>1</sup>

By mounting on the Terrafina substructure rail and clip system.

### Storage & Handling

The profiles come in bundles of two pieces shrink wrapped together with a protective cardboard edge (the Excel board in 5/5.5/6m lengths are packed singly), packed onto a pallet. Please always make sure that the packaging is not damaged during storage.

Until the point of installation, the deck boards and sub-structure profiles should be stored fully packed, fully supported along their length and in a dry environment. Condensed water due to humidity must not penetrate into the packaging. If moisture penetrates due to damaged packaging, the wrapping should be removed completely and sufficient drying and ventilation of the profiles should be allowed. Improper storage may lead to irreversible deformation.

Volatile organic materials	Standards	Measured value		Limit	
		Excel	Ultra	Excel	Ultra
Formaldehyde	RAL-UZ 38	0.015 ppm		0.05ppm	
Organic compounds Boiling point 50 - 250°C	RAL-UZ 38	3 µg/m <sup>3</sup>		600µg/m <sup>3</sup>	
Organic compounds Boiling point > 250°C	RAL-UZ 38	2 µg/m <sup>3</sup>		100µg/m <sup>3</sup>	
Organic compounds CMR-substances	RAL-UZ 38	<1 µg/m <sup>3</sup>		< 1µg/m <sup>3</sup>	

Other Properties	Standards	Measured value	
		Excel	Ultra
Raw material density	EN 323	ca./approx. 1350kg/m <sup>3</sup>	ca./approx. 1400kg/m <sup>3</sup>
Shape performance to heat (HDT, 1.8 N/nm <sup>2</sup> )	EN ISO 75	78°C	
Guaranteed short time load capacity	Point load	300Kg	
	Area load	1000Kg/m <sup>2</sup>	
Reaction to fire: Graphite	EN 13501-1	Level E	
Reaction to fire: Other colours	EN 13501-1	Bfl – s1d0	
Durability class: Laboratory	EN 113 EN 350-01	1 = very durable	
Durability class: Outdoor test, 3 years	EN 252 EN 350-01	60 / 5	-
Durability class: Outdoor test, 5 years	EN 252 EN 350-01	-	1 = very durable

### Storage & Handling (continued)

Whilst there is no specific weight restrictions on what is or is not safe to lift in manual handling, an assessment of the health and safety risks should be undertaken and measures taken to reduce the risk of injury so far as reasonably practicable.

The following guidelines may be useful:

- Each person should be fully trained in manual handling techniques.
- The use of handling aids such as a trolley, folk-lift, pallet truck or conveyor should be used if moving large volumes of cartons.
- Break up large consignments into more manageable loads.
- Ensure that the product is stored at a reasonable height, so avoiding the lifting of cartons from floor level or above shoulder height.
- Reduce carrying distances of cartons.

### Protective Equipment

We recommend that PPE (Personal Protective Equipment) is used when installing Terrafina Solid Composite Deck Boards:

- Good strong safety boots/shoes to protect the feet.
- Protective eyewear such as safety glasses.
- Strong gloves to protect the hands.
- If using loud cutting equipment then ear plugs or defenders should be worn.

### First Aid

The Health and Safety Regulations 1981 require all construction sites to have the following:

- A first aid box with enough equipment to cope with the number of workers on site.
- An Appointed Person to take charge of first-aid arrangements. The Appointed Person looks after first aid equipment and facilities and calls the emergency services when required. Appointed Persons do not need first aid training.

### First Aid (continued)

c) A First-Aider who has undertaken training and holds an HSE approved qualification to administer first-aid. This means that they must hold a valid certificate of competence in either:

- First aid at work (FAW) issued by a training organisation approved by HSE
- Emergency first aid at work (EFAW) issued by a training organisation approved by HSE
- A recognised Awarding body of Ofqual/Scottish Qualifications Authority.

d) The number of first-aiders will depend on the site.

e) Information should be clearly displayed on site telling workers the name of the Appointed Person(s) or First Aider(s) and where to find them.

### Fire Protection

Terrafina Solid Composite Deck Boards are made using LIGNODUR, a PVC compound which is non-combustible and is not a fire hazard.

### Stability

LIGNODUR is a high performance material with a higher degree of strength, durability and resistance to weathering than traditional decking materials. Its resistance to abrasion, wood destructive fungi and insect attack make it exceptionally suitable for use on balcony and terrace areas in public or private locations.

### Environmental Issues

LIGNODUR is 100% recyclable and contains softwood only from PEFC certified suppliers (Programme for the Endorsement of Forest Certification), all of which operate on the principle of 100% sustainable forest management.

### Supporting Documents

More information on the Terrafina products can be found at [www.kinley.co.uk](http://www.kinley.co.uk) in the Resource Centre. In particular, look for the CAD Drawings, Installation Guide (IG-EXUL-0116) and the Brochure (BR-TB-0116).

1. The *Installation Information* given in this document is intended as a guide only. We recommend that professional opinions are obtained before work is commissioned. Kinley Systems Ltd accepts no responsibility for any damage or loss as a result of using the *Installation Information*. We will be happy to engage in any discussion with regard to specific project applications.