

Terrafina Composite Decking

Technical Datasheet

Last Updated: March 2022

Solid composite decking boards manufactured from a WPC compound containing in excess of 50% wood fibre. High-quality stabilizers and pigments give the product both excellent durability and longevity. Available in a range of board lengths and two finishes.

WORKS AS PART OF THE RAAFT TERRACE SYSTEM

This durable system almost eliminates the need for screw fixing, making installation fast and simple.

FIRE RESISTANT

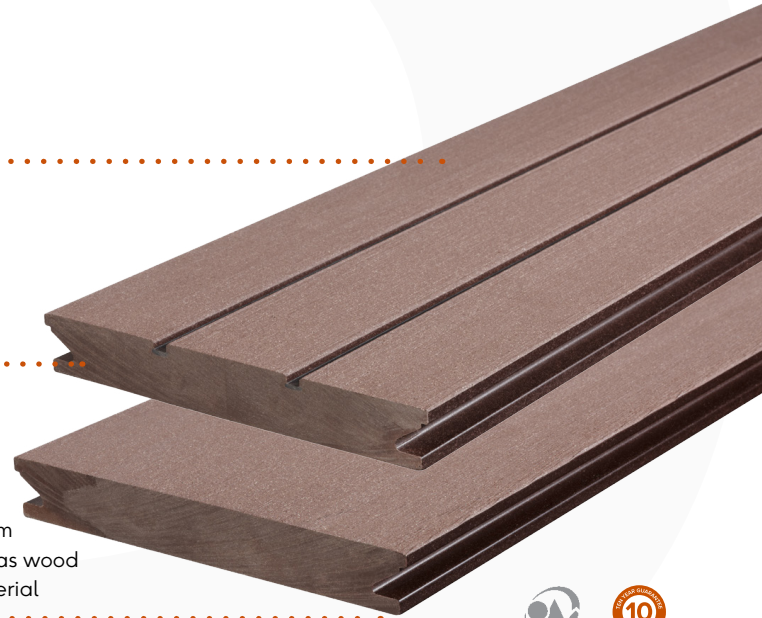
Boards in all colours achieve:
EN 13501-1 Class Bfl
EN 13501-5 Class Broof

Manufactured with PEFC certified wood fibres.

Simple and time-saving assembly - over 50% faster to install than hardwood decking

Advantages:

- Easy to assemble
- Invisible joining system
- As easy to work with as wood
- 100% recyclable material



PRODUCT INFORMATION

| | PL AIN YACHT | DECK |
|--------------|---------------------------------|----------------|
| Board length | 4m, 4.5m, 5m, 5.5m and 6m | 4m, 5m, and 6m |
| Width | 146mm | |
| Height | 21mm | |
| Weight | 3.9kg/m | |
| Material | Wood plastic composite PVC-WF56 | |

FIRE RATING

| RANGE | COLOUR | DIN EN 1350 1 - 1 | DIN EN 13501-5 |
|-----------------|--------------|-------------------|----------------|
| Terrafina Excel | Grey Brown | Bfl (s1 d0) | Broof (t1) |
| Terrafina Excel | Pebble Grey | Bfl (s1 d0) | Broof (t1) |
| Terrafina Excel | Red Brown | Bfl (s1 d0) | Broof (t1) |
| Terrafina Excel | Coffee Brown | Bfl (s1 d0) | Broof (t1) |
| Terrafina Excel | Sand | Bfl (s1 d0) | Broof (t1) |
| Terrafina Excel | Graphite | Bfl (s1 d0) | Broof (t1) |



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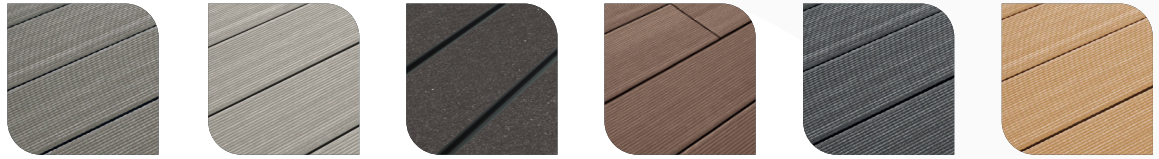
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COLOUR RANGE

| FINISH | GREY BROWN | PEBBLE GREY | RED BROWN | COFFEE BROWN | GRAPHITE | SAND |
|------------|------------|-------------|-----------|--------------|----------|------|
| Plain | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Yacht Deck | ✓ | ✓ | ✓ | - | - | - |

TECHNICAL CHARACTERISTICS

| DESCRIPTION | STANDARDS | MEASURED VALUE | LIMIT |
|---|------------------|----------------------------|----------|
| Breaking load of a deck board at 20°C* | EN 310 | ≥ 3900 N | ≥ 3400 N |
| Breaking load of a deck board (averaging) | EN 310 | ≥ 3700 N | ≥ 2720 N |
| Deflection with load of 500N at 20°C* | EN 310 | ≤ 1.7 mm | ≤ 1.8 mm |
| Creep characteristics: Deformation with 85kg for 7 days at 50°C | EN ISO 899-3 | ≤ 3 mm | ≤ 13 mm |
| Water storage: Absorption of water – 5 hours at 100°C | EN 317 | ≤ 5.2 % | ≤ 7.0 % |
| Water storage: Length expansion – 5 hours at 100°C | EN 317 | ≤ 0.2 % | ≤ 0.3 % |
| Water storage: Width expansion – 5 hours at 100°C | EN 317 | ≤ 0.2 % | ≤ 0.7 % |
| Water storage: Thickness expansion – 5 hours at 100°C | EN 317 | ≤ 2.2 % | ≤ 4.0 % |
| Slip resistance in wet and dry | EN 13839 | 0.67 = R12 | ≥ 0.43 |
| | DIN 51097 | 28° = C | ≥ C |
| Coefficient of thermal expansion lengthwise | ISO 11359-2 | 20.6 x 10 ⁻⁶ /k | - |
| | l = 4m, dT = 40K | 3.3 mm | - |

*480mm inside distance between supports unsupported.

VOLATILE ORGANIC MATERIALS

| | STANDARDS | MEASURED VALUE |
|---|-----------|----------------------|
| Formaldehyde | RAL-UZ 38 | 0.015 ppm |
| Organic compounds: Boiling point 50-250°C | RAL-UZ 38 | 3 µg/m ³ |
| Organic compounds: Boiling point >250°C | RAL-UZ 38 | 2 µg/m ³ |
| Organic compounds: CMR substances | RAL-UZ 38 | <1 µg/m ³ |



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OTHER PROPERTIES

| | STANDARDS | MEASURED VALUE |
|---|--------------------|------------------------------------|
| Raw material density | EN 323 | ca./approx. 1350 kg/m ³ |
| Shape performance to heat (HDT, 1.8 N/nm ²) | EN ISO 75 | 78 °C |
| Guaranteed short time load capacity | Point load | 300 kg |
| | Area load 1 | 000 kg/m ² |
| 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 | - |

APPLICATIONS

The versatile nature of the system enables it to be installed in a wide range of applications including: terraces, balconies, roof gardens, leisure areas, promenades, boardwalks, jetties, pool and pond edges both in private and public realm scenarios.

INSTALLATION INFORMATION

The assembly of Terrafina deck boards is exceptionally simple using the provided mounting clips onto the Raaft support structure system, making installation fast and easy. Disassembly and reassembly is equally straightforward if alterations or additions are required at a later date.

STORAGE & HANDLING

The profiles come in bundles of two pieces shrink wrapped together with a protective cardboard edge (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 support joists 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.

Whilst there are 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 Excel Composite Decking:

- 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.



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STABILITY

Terrafina Excel WPC 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

Terrafina Excel WPC 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 raaft.co in the Resource Centre. In particular, look for the CAD Drawings and Installation Guide.



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