

d² GRP Retail Subflooring

Say hello to d² innovation

Dura Composites accelerates the build of resilient, greener and safer infrastructure using our distinct range of walkway grating, trench covers, structural profiles, handrailing, access structures, platforms and related solutions – known as the d² product range.

We design, manufacture and supply innovative recyclable and lower embodied carbon products that offer anti-slip surfaces, high load-bearing capacity, and resistance to environmental factors, all backed by decades of proven performance and innovation.

Solve your flooring problems. Don't **repeat** them.

Safer, stronger, greener and more cost effective than plywood over its 60-year design life, our d² GRP subflooring has been tested and recommended by floor tile manufacturers for high-traffic convenience stores. Easy to install, it provides a long-term flooring solution that minimises maintenance costs, store closures and disruption. It also achieves an embodied carbon saving of 30% versus plywood, making it a more sustainable choice.

Key Benefits Include:

- **60 year design life**, anti-slip, anti-rot and suited to a wide range of loads and spans.
- **Purpose-designed products** for exactly the load & deflection criteria we know you need.
- **30% less embodied carbon** than plywood AND we'll **recycle** any waste for you.
- Easy compatibility with the finished floor tile, **backed by test data** for individual products.

GRP d² Dura Grating Solid Top subflooring panels have a compelling 60 year design life versus plywood

Proven compatibility & integration with the finished floor tile

Substructure options include our GRP d² Dura Profile beams or patented steel framework

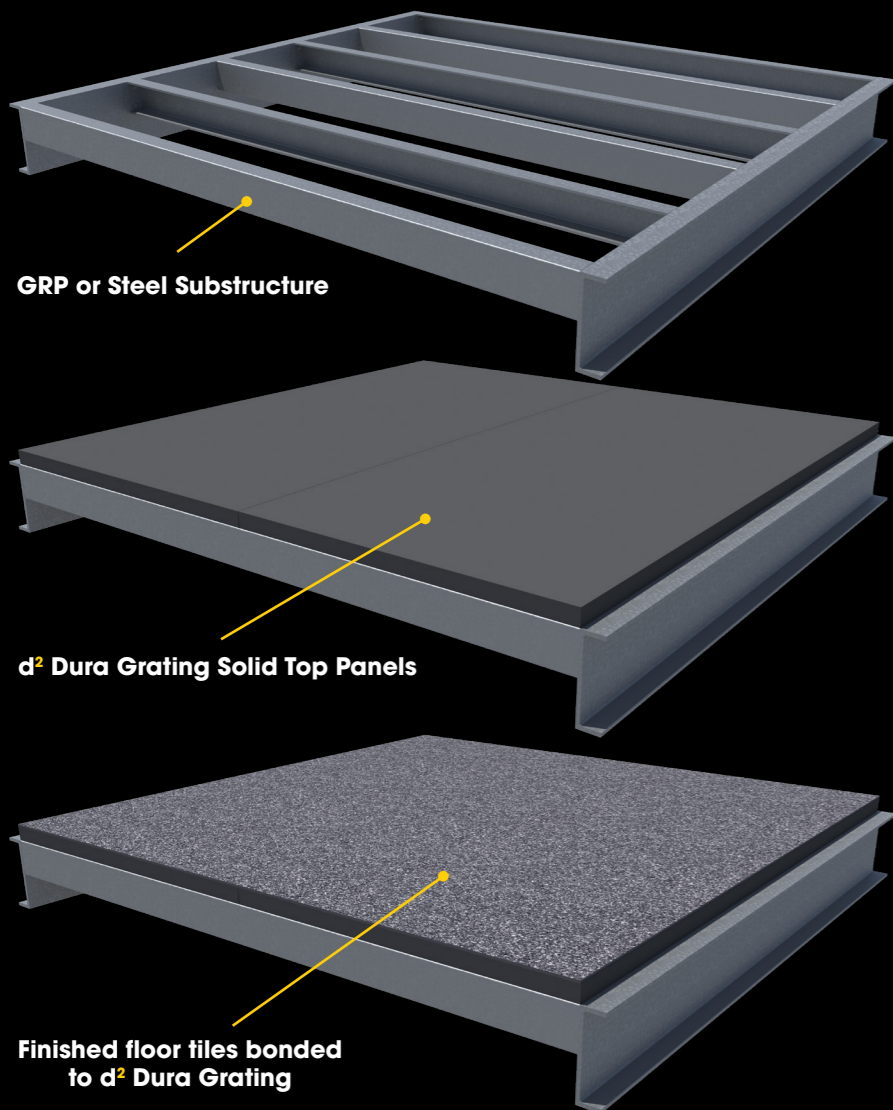


Tested and recommended by finished floor tile manufacturers

dura[®]
composites



Quick installation reduces store closures



Used for both new builds & renovations

Our subflooring panels can be used with existing substructures or we can provide a GRP or steel substructure to meet the needs of the project.

Our most popular solution utilises our d² Dura Solid Top Grating panels on top of Dura Profile structural beams to create a lightweight but incredibly durable retail subfloor that dramatically reduces store closing times thanks to its rapid fit capability.

We also offer a patented steel framework option to help meet specific weight or modular build requirements.

Multiple thicknesses to cope with all load & span requirements

d² Dura Grating Solid Top Panels are available in various panel thicknesses accommodate diverse load and span needs including:

- 29mm
- 36mm (NEW for 2024!)
- 41mm
- 53mm

Lasts up to 20 times longer than plywood

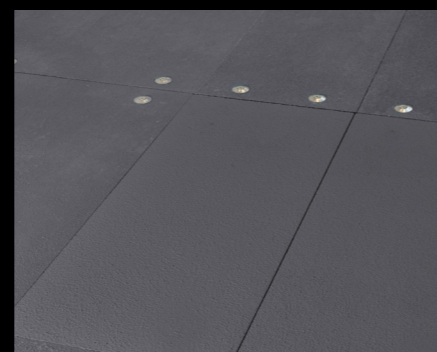
Unlike plywood, our GRP solution offers resistance to moisture, rotting, and chemicals, preventing common issues such as mould growth and slip hazards. This is particularly important where in-store chiller cabinets maintain low temperatures to preserve perishable goods and additional air moisture is produced, condensing on surrounding surfaces and penetrating the plywood subflooring.

This moisture ingress can lead a range of problems over time including:

- Mould and mildew growth
- Slip and fall hazards
- Warped or degraded finished floor tiles
- An unsightly appearance

By contrast, the GRP d² Dura Retail Subflooring System from Dura Composites ensures ultimate safety and peace of mind by maintaining full structural integrity over its long lifecycle, regardless of any occurrences on the finished floor surface.

With a design life of 60 years, our GRP panels can outlast plywood by up to 20 times, saving huge costs for retail stores.



d²

Safer.
Stronger.
Greener.
Proven.



60 year design life, anti-slip, anti-rot and suited to a wide range of loads and spans.



Purpose-designed products for exactly the load & deflection criteria we know you need.



30% less embodied carbon than plywood AND we'll recycle any waste for you.



Easy compatibility with the finished floor tile, backed by test data for individual products.

Superior durability for demanding retail applications

Built to withstand heavy loads and stresses, our purpose-designed d² GRP products offer superior durability without compromising performance. Crucially, unlike plywood, our GRP weathers at a consistent rate over its lifecycle without the loss of significant strength, making it perfect for demanding retail applications where heavy footfalls are common.

Our lighter and smaller products reduce project scale and enhance ease of transportation and installation. We provide all the data you need to design and fit your retail subflooring, including load and deflection information that ensures you can determine that your chosen d² flooring product will safely support the intended load, including the weight of in-store shelving, wheeled cages, chiller units and pedestrians.

The eco-friendly option: low embodied carbon & fully recyclable

Not only do our d² GRP products have 30% less embodied carbon than plywood* and 33% less than inferior competitor products, but we'll also repurpose any d² waste you produce during installation and even recycle your products for you if they ever reach end-of-use, so you can reduce your environmental footprint.

Choosing the right product is easy

We're so confident in our data, we make our material science knowledge freely available via an online product selector tool we call 'Power of Composites' so you can see how our products perform based on fact, not guesswork.

Whatever load and deflection you're working to, we can demonstrate which product combination will be the most cost-efficient.

www.powerofcomposites.com



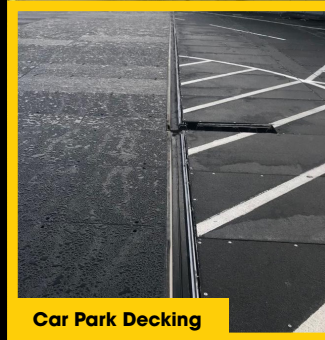
Want **more info** on Retail Subflooring Solutions?
Scan here:



We don't just do retail subflooring!
Check out our other composite product solutions for retail:



Heavy Duty Flooring



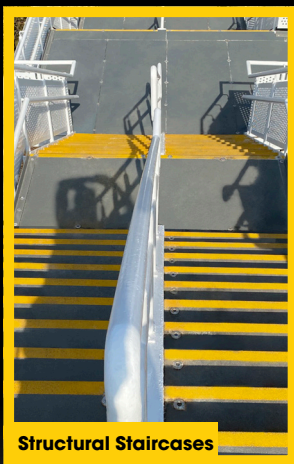
Car Park Decking



Fencing Screening & Gates



Balustrading



Structural Staircases



Aluminium Cladding



Roof Walkways & Handrailing

Join our network of satisfied d² GRP customers including:



If you're new to working with GRP, we offer full installation training at our Dura Training Academy in East Anglia.

To speak to our retail flooring specialists, get in touch >>

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* The 30% calculation is the saving in kilograms of CO₂ equivalent of the anticipated replacement cycle of 36mm plywood over a 30 year installation based on just the materials at 11.85 kg CO₂e, not taking into account the additional carbon output from the repeated replacement installation which would result in much higher values.