



CASE STUDY

VULCAN
Architectural
rethinking stairs



ABOUT VULCAN

Vulcan Architectural is known for its high profile in creating Stair solutions. We add value to clients properties through the careful design and planning with practical advice. Our team is structured to assist in giving a wide range of respected blue chip client's control in their new build or re-development program. We provide the expertise to understand their goals and objectives to create clever, practical and functional walking areas.

CASE STUDY

Address South Hampstead Station

Size 1 linked unit

Total project value 2.7million

Case For this project, the architect and the Rail Team team, wished to upgrade the DDA vision and AFA to the bridge. This included the **structural substrate VG 50-I-33**. Using Vulcan Tread Systems, we worked closely with the design team, carrying out the station survey, enabling us to advise on the **structural VG 50-I-33 substrate** preparation, repair, structural conditioning and installation procedures, ensuring all end results met the high standards expected. Vulcan worked carefully with the architects and contractors, making sure that everything was on site, on time and on budget. The completed project included all treads and the riser product, RSR140, exclusively VULCAN.

South Hampstead Station



VULCAN
Architectural

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VULCAN SUBSTRATE GRATING

CODE: 50-I-33

| | | | |
|-----------------|----------------|--------------------------|---------------------------|
| Thickness: 50mm | Open Area: 33% | 3 Core Interlocking Rods | kg/m ² : 20.27 |
|-----------------|----------------|--------------------------|---------------------------|

Vulcan's grating is the ideal substrate for landing and treads. Available in GRP pultruded section bound together with interlocking rods: it is light, strong and tremendously versatile. Available gritted or ungritted.

The 50-I-33 can be manufactured in Class III general purpose resin; Class I surface spread of flame, and phenolic resins, which means no flame and no fumes.

Strength and deflection variation between the different resins is negligible.

A quick guide for uses:

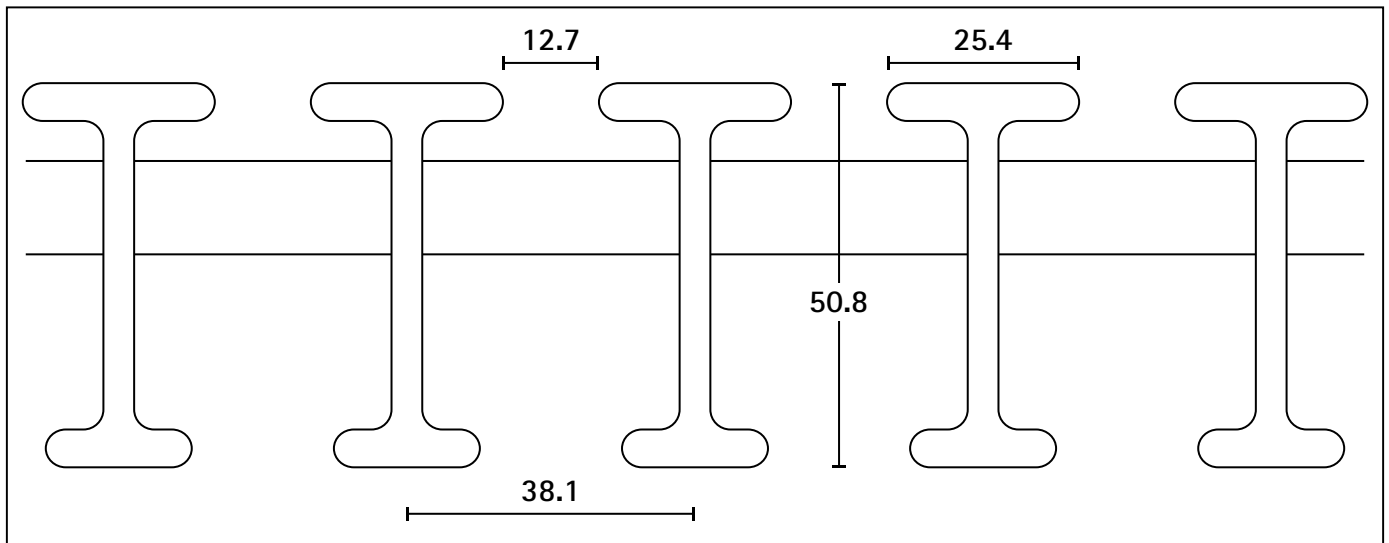
Phenolic: Subway, underground, oil industry, confined spaces i.e. electrical.

Class I: Building regulations, rail overground, high level walkways, highway overbridges.

Class III: General purpose walkways, low level marine.

Each project is dealt with individually and product manufactured accordingly. Support centres should be clearly defined before start of project. Colour can be chosen at point of order but the visual needs of users should be considered.

A complete range of chemical tests are available for GRP products and this can be supplied on request.



VULCAN ARCHITECTURAL: GRATING (SUBSTRATE) TECHNICAL SPECIFICATION SHEET. PT2. PRODUCT CODE VSG 50-I-33

CODE: 50-I-33

| | | | |
|-----------------|------|------------------|--------------------------|
| Thickness | 50mm | Connection | 3 Core Rods |
| Open Area | 33% | Weight | 20.27kg / m ² |

Concentrated Line Load, Deflection in mm

| kg/m SPAN | 300 | 450 | 750 | 1500 | 3000 | 5950 | Maximum Load |
|-----------|------|------|------|------|------|-------|--------------|
| 600 | ---- | 0.25 | 0.51 | 1.02 | 1.78 | 3.3 | 16876 |
| 900 | 0.51 | 0.76 | 1.27 | 2.29 | 4.57 | 9.4 | 7492 |
| 1200 | 1.02 | 1.52 | 2.29 | 4.83 | 9.91 | 19.56 | 4215 |
| 1500 | 1.78 | 1.78 | 4.57 | 9.14 | 18.3 | 36.58 | 2696 |

Uniform Load Table, Deflection in mm

| SPAN | kg/m ² | | | | | | Maximum Load |
|------|-------------------|------|------|------|------|-------|--------------|
| | 1000 | 1900 | 3900 | 7000 | 9500 | 19500 | |
| 600 | 0.25 | 0.51 | 0.76 | 1.52 | 2.03 | 4.06 | 55368 |
| 900 | 0.76 | 1.52 | 3.05 | 5.59 | 7.37 | 14.99 | 36895 |
| 1200 | 2.29 | 4.57 | 9.4 | ---- | ---- | ---- | 27659 |
| 1500 | 5.08 | 9.91 | ---- | ---- | ---- | ---- | 22137 |

