

Contents

Vital Engineering Introduction	02
Grating Terminology	03
Vitagrid Walkway Grating	05 - 06
Vitagrid Heavy Duty Grating	07
Vitagrid Aluminium Grating	08
Vitagrid Stainless Steel Grating	09
Vitagrid Steel Minimesh	10
Standard Grating Panels	11
Diamond Pattern	12
Stairtreads and Econo-Treads	13 - 14
Vitacon Treads	15
Vitaglass FRP Gratings and Treads	16 - 19
Vitex Expanded Metal	20
Load Tables	21 - 24
Handrailing Products	25 - 29
Fixings	30
Interactive CD	31
Supa Service	32
Vital Product Applications	33
Contact Us	34



YOUNG & GROWING



ENISO 9001-2000

Introduction

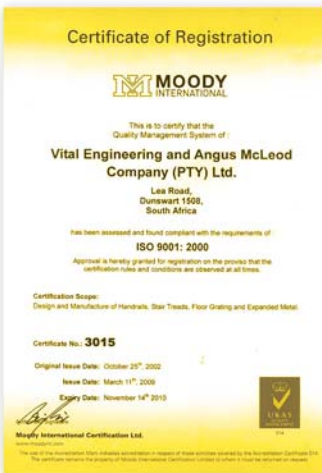
Vital Engineering and Angus McLeod supply a quality product range of gratings, handrails and expanded metal to the petro-chemical, power generation, mining, processing, food, beverage and other industries, both locally and overseas. Our unique and innovative design has found wide acceptance from all industries. Our large, in-house cut to size facility undertakes the tailoring to customer drawings and we are also able to offer standard sheets and stairtreads. Various grades of material and finishes are available, enabling the client to select one supplier for a complete project.

Drawing Office

A fully equipped CAD drawing office is able to undertake shop detailing and layout drawings for fabrication and erection purposes. These drawings can be received by electronic data transfer (e-mail) if required in a .DXF or .DWG format.

Quality Assurance

Our product range is designed and tested in accordance with DIN, BS and NAAMM standards. Approval certification is available on request. Vital Engineering has been certified by Moody International Certification as having achieved ENISO 9001 - 2000 design status. We have held full accreditation for over 15 consecutive years.



Grating Terminology

1. Load-Bearing Bar

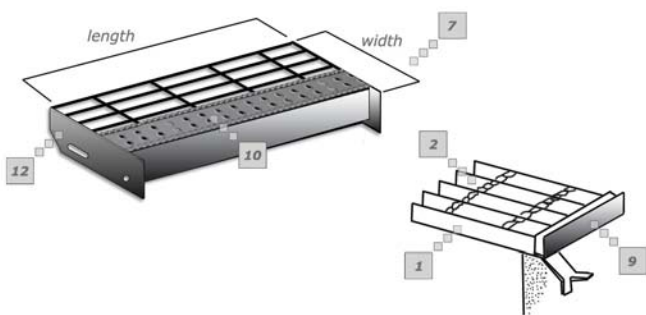
This refers to the load-bearing member spanning between supports.

2. Transverse Bar

A member fixed at right angles to the load-bearing bars to provide lateral restraint.

3. Binding Bar

A bar or section fixed to the edges of a flooring panel flush with the top of the load-bearing bar.



4. Deep Binding Bar

A bar or section fixed to the edges of a flooring panel and projecting below the underside.

5. Length (Direction of Span)

The overall dimension of a flooring panel parallel with the load-bearing bars.

6. Hard Stamped Tag

A metal plate welded on tailored grating panels showing customer order number/drawing number and panel position number for easy erection on site.

Curved Shaping

The part of a cut-out which is curved.

Net Area

The actual area of flooring excluding cut-out areas.

Gross Area

The total area of flooring including the cut out area.

7. Width

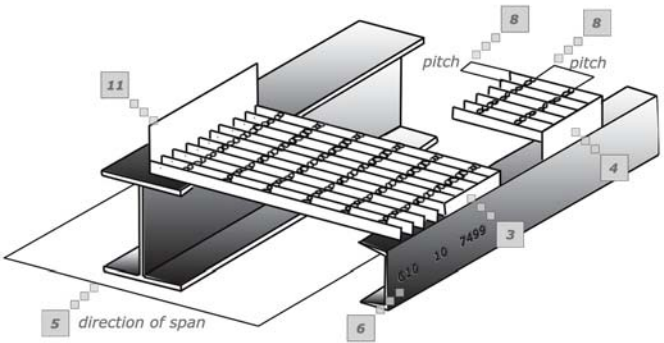
The overall dimension of a flooring panel measured at right angles to the load-bearing bars.

8. Pitch

The distance centre-to-centre of load-bearing bars or centres between points of lateral support to load-bearing bars.

9. Curb Angle

A member fixed to concrete or supporting steelwork at the perimeter of a flooring area.



10. Non – Slip Nosing

This refers to a member attached to the front edge of a stairtread or flooring panel.

11. Kicking Plate (Toe Plate)

A flat bar around the edge of a flooring panel and projecting above the top of the load-bearing bars.

12. End Plate

A plate fixed to a stair or ladder tread for attaching to the stringer.

Straight Shaping

The part of a cut-out which is straight.

Cut-out

An area of flooring removed to permit pipes, columns, etc, to pass through or to clear obstructions.