

Structural steel mezzanine floors and platforms

A structural engineering company, RDA specialises in all types of mezzanine floors, plant platforms and access walkways for distribution, industrial, commercial and retail buildings. Feasibility study, structural design, fabrication and site installation services are tailored to the needs of the individual project. Full technical advice on all aspects, including Building Regulations Approval, Health & Safety and CDM is an integral part of this professional service. Multiple level mezzanines, high specification performance floors and large structures are a particular speciality. Partially portal supported floors are also undertaken.

Introduction RDA's structural engineers and project managers specialise in schemes for specifiers, construction professionals and major industrial and retail clients. Independent design and fabrication facilities enable each mezzanine to be specified and produced to meet the exact requirements of a project at the lowest possible cost.

Established for 11 years, RDA has turnover exceeding £5 m. The management has more than 80 years' cumulative experience in the mezzanine industry nationwide and in continental Europe.

RDA ensure optimum design and performance using the latest computer technology to meet the client's immediate and future requirements. Savings are usually generated at the concept stage and hence the earliest possible involvement is recommended. Completely free-standing and portal supported designs are available to suit the building.

Professional Indemnity Insurance RDA is one of only a few specialists holding £3 m Professional Indemnity Cover and can warrant any design as required.

General insurance RDA maintains comprehensive coverage including Contractor's All Risks at £3 m and Public/Products & Employer's Liability at up to £10 m.

Applications Wherever a building has 5 m clear headroom and a minimum 150 mm concrete slab, a mezzanine floor can be successfully installed. RDA design structures from 30 m² to 10,000 m², in single and multi tiers, for use in industrial, commercial, warehouse, retail, office and leisure premises.

Plant platforms and specially deflection-limited deck designs for office situations are also undertaken.

DESCRIPTION

Composition of mezzanines Structural steel columns support steel universal beams, inset with galvanised steel joists cleated into the beam webs to create a uniform grid layout wherever possible for best economy. Columns sit on and



Warehouse mezzanine - pallet storage



Large mezzanine in major retail store

are welded to steel slab baseplates, anchored to the concrete slab. Structures are normally demountable. RDA offers full technical advice on all aspects of imposed loads to slab.

Deck materials The most popular deck medium is the specially developed 38 mm high density particle board. RDA conforms to all the latest BRE Digest Guidelines and includes a moisture-resistant standard to all timber decked floors. Durbar plate, plain steel plate and open steel grate are regularly specified.

Deflection limitation RDA has pioneered the use of deflection limits in mezzanine design to reduce movement and bounce. Full advice on the proposed use of the floor and how it will perform is provided on every project.

Load capacities RDA designs to meet or exceed all relevant load capacities as defined under the Building Regulations and British Standards. Loadings can range from 2.5 KN/m² (50 lb/ft²) to 15 KN/m² (300 lb/ft²) as standard.

Accessories A complete range of accessories includes staircases, handrails, loading gates, ladders and full height screening.

Fire protection RDA advises on all aspects of fire escape, permissible travel distances, the need for fire

protection to the elements of mezzanine structures and fire separation partitioning.

Finishes One-coat gloss onto shot-blasted steelwork. Timber decking is natural with steel decking available in primer, galvanised or painted finishes.

SERVICES

Advice and Design Initial consultation, development of design concept and quotation are all free of charge and generally available within 48 hours of first enquiry.

Delivery Usually up to four weeks from client approval of design layouts, depending on floor size and complexity. More rapid fabrication is possible on special request.

Installation Expert site installation teams can construct RDA mezzanines at a rate of up to 100 m² a day, completing an average 500 m² floor in one working week.

REFERENCES

RDA's client base includes:

- Airbus
- Alumasc plc
- Argos
- B+W Loudspeakers
- Bowmer & Kirkland Ltd
- British Vita plc
- Cannon Rubber Co

- The Disney Store Ltd
- G Plan Furniture
- GIST Distribution
- King Sturge & Co
- Laing O'Rourke Construction
- MacDermid Canning Ltd
- Matalan
- Mothercare World
- Muller Dairies UK Ltd
- New Look
- NEXT Distribution
- NEXT Retail
- Nottingham University
- Royal Opera House
- Rugeley Self Storage
- SCS Upholstery
- Slough Estates plc
- Specsavers Opticians
- Strutt & Parker
- Sunlight Laundry
- Tesco
- TNT Express
- Tommy Hilfiger Retail

RDA Projects Ltd
Innovation House
Daleside Road
Nottingham
NG2 4DH
Tel: +44 (0)115 911 0243
Fax: +44 (0)115 911 0246
Email: advice@rdaprojects.co.uk
Website: www.rdaprojects.co.uk

Contact: Adèle Lancaster

rps no: 17608