GENERAL

The Mercian T40 or T80 Sectional Overhead door is manufactured to specific requirements to suit regular-shaped openings. Particularly suitable where reliable repetitive operation is required. Seals at soffit, cill and panel interfaces provide greater thermal efficiency. Various modes are available to suit a large range of building applications. Corporate colour schemes can be incorporated to give excellent aesthetics.

Maximum opening size: (dependent on mode used) 8000mm wide x 6250mm high

Special features of this range are:
- Individual panels can be replaced if damaged
- Wide choice of finishes/colours including: Plastisol Leathergrain, Standard Polyester finish, Colorcoat HPS200
- Rapid installation by factory trained engineers
- Large range of factory fitted extras to suit customers specific requirements

COMPOSITION

Panels  Constructed from closed cell in-situ expanded polyurethane foam. Gives typical ‘U’ value of: 0.24w/m²/°C per panel for 80mm thick panels; 0.60w/m²/°C per panel for 40mm thick panels. (Values incl the effect of thermal bridges at panel joints).

Bottom Panel  Rubber seal on bottom for weather resistance.

Side & Back Tracks  Profiled steel section which offers minimum resistance to the movement of the rollers. Braced at high level for added strength.

Spring Assembly  Combinations of stress tested torsion springs mounted on steel shaft supported by roller bearing plates. Spring effort is transmitted via cable cones and steel cables. This ensures smooth consistent operation over the complete door range.

Locking  Internal lockable fitted shootbolt for customers own padlock. (Microswitch interlocked on powered doors)

Accessories

The following are available as factory fitted extras or as supplementary items at a later date:
- Electrical operation to give full compliance with current EC directives and Regulations 5 and 18 of the Health & Safety “Workplace Health, Safety & Welfare” Regulations 1992. For available options please ask for our leaflet ‘CK 001’
- Vision panels
- Wicket doors (Factory fitted only)

OPERATION

The three methods of operation are:

Manual Pull Cord T40P  For doors up to 3000mm x 3000mm. Lift and push up with pull cord control over ascent and descent.

Handchain T40C  Operation is by endless handchain through mild steel gears to give ease of operation together with rapid response from fully closed to fully open.

Electric operation T40E  Preferred for openings over 4000mm x 4000mm. A 440 volt 3 phase motor with limit switches, reversing contactor starter and provision for rapid conversion to emergency manual operation is used. May be specified as original equipment or as a conversion at a later stage.

Note! All Mercian sectional overhead doors are carefully counter balanced for ease of operation, but consideration should be given to frequency of use when deciding on the provision of handchain or electrical operation.
MODES AVAILABLE

Standard Lift  The most common application due to its simple design and easily constructed structural opening. Particularly suitable where headroom above the door in the open position is restricted. The back tracks should follow the roof slope where possible, or be inclined upwards from the opening height on a minimum pitch of 1 in 25.

High Lift  Where a greater degree of internal clearance to the underside of the open door is required e.g. for fork lift truck operations. The back tracks should follow the roof slope where possible, or be inclined upwards from the opening height on a minimum pitch of 1 in 25.

Vertical Lift  Particularly useful where roof or purlin loadings are critical, or a completely uncluttered internal aspect is required.

SITEWORK

Construction  Openings may be formed in masonry, steel, concrete or timber. The building structure must be suitable to support the loadings imposed by the door. Our technical staff will be happy to advise on specific requirements.

SUPPLY

Delivery  The sectional doors are delivered to site on Mercian transport. Delivery periods are flexible to meet the demands of our customers but usual delivery times are 3/4 working weeks from settlement of details.

Technical  For further information or technical advice please contact our Technical Sales Department at the above address.

INSTALLATION & MAINTENANCE

The company has teams of specially trained installation engineers and offers a comprehensive programme of preventative maintenance, upgrade and emergency repair services to ALL types of industrial doors. Free survey and quotation service. Call us for an obligation free site visit.

Optional Vision Panels:
1. 675 wide x 368 high (standard)
2. 620 wide x 180 high (polycarbonate security)