

### STEP OVER

Stepover systems are designed to facilitate safe access on a designated access pathway, over pipework, roof penetrations, parapet walls and roof plant.

The Step overs are designed as a permanent means of access and are usually left in position for the duration of the access requirements. The system is supplied with handrail on both sides for added safety.

The system are modular by design and can be supplied fully assembled for easy installation.



#### TECHNICAL INFORMATION

SYSTEM TYPE	STEP OVER
FUNCTION	HEIGHT ACCESS
MAXIMUM WIDTH	800 MM
MAXIMUM HEIGHT	1500 MM
INCLINE	60°
FIXING TYPE	PERMANENT
INSPECTION PERIOD	12 MONTHS
MATERIAL	ALUMINIUM OR GALVANISED STEEL
ADDITIONAL FEATURE(S)	LOCKABLE HINGED GATED

## MATERIAL SPECIFICATION - GALVANISED STEEL PROFILE

YIELD	275 N/MM <sup>2</sup> C 0.15–0.26; SI 0.35; MN 1.5; P 0.035; S 0.040; MO 0.4–0.6.
YOUNGS MODULUS OF ELASTICITY	200 X 103 MPA AT 20 °C
DENSITY	7.87 G/CM <sup>3</sup> AT 20 °C
COEFFICIENT OF THERMAL EXPANSION	LOW-CARBON/HSLAS: 12.4 µm/m/°C IN 20 °C TO 100 °C RANGE I-F STEEL: 12.9 µm/m/°C IN 20 °C TO 100 °C RANGE
THERMAL CONDUCTIVITY	LOW-CARBON/HSLAS: 89 W/m°C AT 20°C I-F STEEL: 93 W/m°C AT 20°C
SPECIFIC HEAT	481 J/kg/°C IN 50 °C TO 100 °C RANGE
ELECTRICAL RESISTIVITY	0.142 MΩ•M AT 20 °C

## MATERIAL SPECIFICATION - ALUMINIUM PROFILE

ALUMINIUM EXTRUSION	0.50-0.75 Si, MAX 0.35, Fe 0.40-0.70 Mg
TENSILE STRENGTH	PSI 23,000
YIELD STRENGTH	PSI 15,000

## OPERATING AND DESIGN STANDARDS

- BS4211:2005+A1:2008
- BS EN 12020-1 AND 2 :2008 ALUMINIUM AND ALUMINIUM ALLOY EXTRUSIONS
- BS EN 755:2008 SERIES EXTRUDED PROFILES
- BS EN 754: 2008 SERIES TOLERANCES ON DIMENSIONS EXTRUDED PROFILES
- BS 1154:2003- PHYSICAL AND COMPOSITIONAL PROPERTIES FOR NATURAL BLACK RUBBER
- ISO 9001:2008
- ISO 14001:2004
- BS OHSAS 18001:2007
- WORK AT HEIGHT REGULATIONS 2005 (REF.7)

## TYPICAL CONNECTION LOADS

VERTICAL SHEAR	3.0Kn
TENSION	0.5Kn
UNIFORM LOAD 100MM <sup>2</sup>	PSI 15,000
MAXIMUM SWL	450KG