system 150
modular hinge-down clip-in tiles (concealed grid)

System Description

SAS System 150 is a range of highly versatile square and rectangular clip-in metal ceiling tiles which offer hinge down access throughout as standard. Supported from the SAS Deep Omega Bar tiles can pivot and slide along the suspension system providing access to large areas of the ceiling void.

System Features

- Hinge down access throughout
- Precise tile levelling with twin pip arrangement
- Closed butt joints with bevelled edges
- Secure void, easy access tool required to demount tile
- Upward cleaning pressure can be applied to remove stubborn marks without disturbing tile
- Concealed grid system
- Minimum 25-year product life expectancy

Access

Access within overall construction depth. Secure void, easy access tool required to demount tile

Standard Module Sizes (mm)

300 x 300	500 x 500	750 x 750
300 x 600	500 x 1500	
300 x 900	600 x 600	
300 x 1200	600 x 1200	
300 x 1500	610 x 610	

Special sizes are available on request. Please contact for our technical department further details.

Finish

Polyester Powder coated supplied as standard with a RAL 9010 smooth finish; a fine textured finish (**SAS FT**), anti-bacterial coating (**SAS AB**) and other colours are available. See page 36 for a full range of paint finish options.

Grid System

Clip-in SAS Deep Omega Bar, see page 149 for components.

Shape

Tiles can be square, rectangular, triangular or trapezoidal with bevelled edges and vertical sides, incorporating a hinging tab and pip locating detail.

Perforation

Typically supplied with 1522, 1820 or 2516 perforation. See page 103 for full details and perforation options.
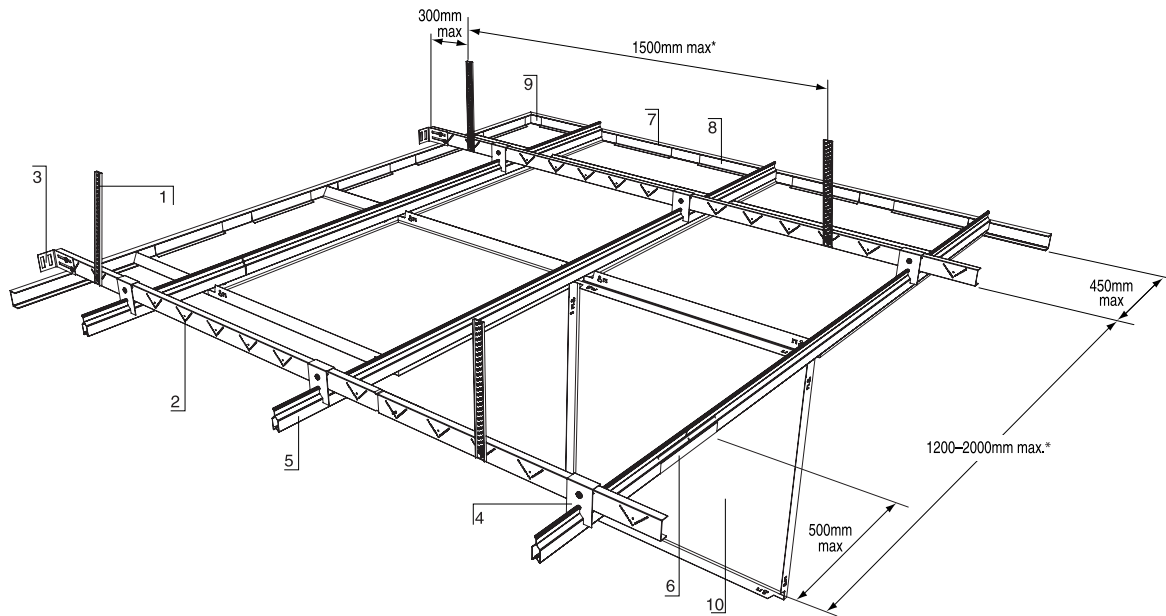
Integration

Apertures can be formed during manufacturing for luminaires and other services, see pages 38–39 for further details

Weight

Approximately 9kg/m² for 600 x 600mm steel tiles, acoustic pad and SAS Deep Omega Bar suspension system.

300mm max

1500mm max*

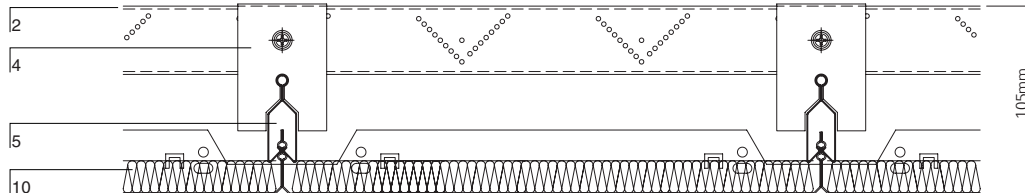450mm max

1200–2000mm max.*

500mm max

1] Emac Hanger   2] Emac Channel   3] Emac Wall Anchor   4] Omega Bar to Channel Bracket   5] SAS Omega Bar
6] Omega Bar Splice   7] Perimeter Trim   8] Perimeter Wedge   9] Corner Splice   10] System 150 Tile

*Lightweight installations only, see page 163 for full details.

Emac suspension components can be found on page 144, System 150 / SAS Deep Omega Bar component details can be found on page 149.
Perimeter trims and accessories can be found on page 115.

Section Drawing

105mm

Acoustic Performance Data

|		Attenuation	Absorption	
		dB	Class	
			NRC	$\alpha\omega$
	Plain tile.	38	N/A	
	Perforated tile with acoustic fleece.	13	Class C	
			0.70	0.65
	Perforated tile with 18mm x 80kg/m³ acoustic pad.	30	Class A	
			0.85	0.90
	Perforated tile with 18mm x 80kg/m³ acoustic pad and steel backing plate. (**Note:** 600x600mm & 750x750mm only)	40	Class D	
			0.65	0.55
	Perforated tile with 18mm x 80kg/m³ acoustic pad and 12.5mm plasterboard. (**Note:** 600x600mm & 750x750mm only)	42	Class C	
			0.75	0.65

Results above extracted from tests undertaken using perforation reference S1820.

Hinge and Slide Facility

The unique design of SAS System 150 allows every full tile to pivot and slide along the grid system. The hinge and slide feature facilitates easy access to large areas of the ceiling void for maintenance; tiles are retained within the ceiling grid avoiding damage and eliminating the need for storage.

Product Integration
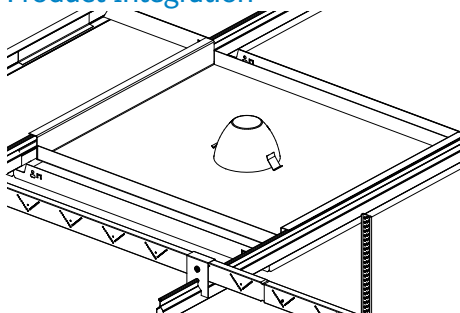
Luminaires and other services can be integrated with System 150. Modular luminaires can be supported directly from the soffit. Where maximum point loads are exceeded (see installation advice page 163) the load must be supported independently or from the grid. The SAS pattress system allows the integration of heavier items into the system by distributing the load directly back to the Omega Bar, eliminating the need for complicated support arms. Further details are available from the technical department.

Wide-Spanning Omega Bar
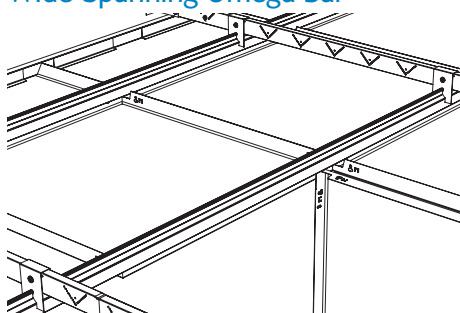
The deep Omega Bar has a maximum spanning ability of 2000mm. The wide spanning bar requires 25% less primary channels, top fixings and brackets, saving installation time and materials.

Suspension centres should be reduced when using high performing dB panels due to the additional weight or where loads are applied to the system, see page 163 for installation advice.
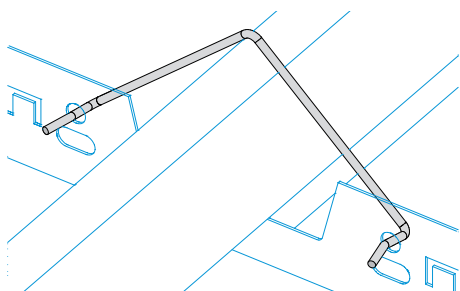
Bulkhead Closure Panels
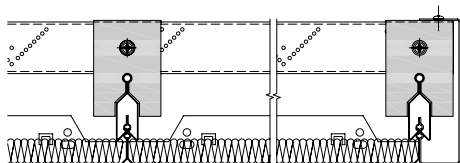
Bulkhead closure panels enable floating rafts and ceilings to be created using a standard clip in ceiling tile, see image on pages 24 and 70.

The height of the closure panels can be manufactured to suit the project requirements. Further details are available from the technical department.

Security Considerations

In areas where it is necessary to restrict access to the ceiling void, System 150 offers a security clips that holds the tiles into the supporting grid. This is ideal for airports and other security driven environments, including schools and lavatories.

Tiles without security clips can be removed from the ceiling plane by means of an easy access tool.