

1. Composition and Finish

SAS paint finishes are in accordance with BS6496 to achieve a 1,000 hour salt spray test for aluminium and 500 hours for steel, giving visual performance for a minimum of 25 years in normal interior conditions. For exterior conditions aluminium should always be specified as the base material - further information is available from our technical department.

2. Decoration

Factory applied, polyester powder paint in matt or textured finish, normally RAL9010 white, with a range of perforation patterns and face profiles. A range of alternative colours are also available.

3. Shape and Size Variations

The versatility of metal permits formation of a wide range of face and edge profiles. Whilst square and rectangular shaped tiles and planks are most common; triangular, trapezoidal and other geometric forms are also possible. The visible tile edge may be formed with a bevelled, square or radius profile, and dependant upon the type of support system being considered, may alternatively be straight sided, with or without a pip and stop, or straight sided folded inwards or outwards.

4. Module Size

A wide range of modular and non-modular sizes are available.

5. Nominal and Actual Size

Most metal products are designed to fit a suspension grid which is of a fixed module dimension. (For tolerance see Technical leaflet 2).

6. Weight

For design purposes the weight per square meter will be between 6-9 Kg (excluding infill's).

7. Handling Instructions

These products are pre-finished materials and should be treated with due regard to their composition, edge detail and surface finish. Instructions given in technical literature and printed on cartons should be followed.

8. Environmental Conditions

The nature of the products, mean they generally do not need protection from environmental extremes. Buildings into which the ceilings are installed should be roofed and weathered, with all external doors and windows fitted and glazed, ensuring that all wet trades are finished and dried. Metal products (when finished) are resistant to high level of humidity, however, where such conditions prevail please contact our technical department.

9. Cutting and Shaping

Metal products are easily cut and shaped with standard tools such as electric shears, tin snips, hand guillotines or fine toothed saws. Portable site equipment such as band saws or high speed disk cutters may also be appropriate. Cut edges of tiles should be painted if the environmental conditions are likely to exceed those specified in section 8.

10. Visual Appearance

Metal ceilings offer a wide variety of design options, finishes and functional uses.

However it must be appreciated that differential deflection of the tile face may occasionally be visible between panels depending on the tile size, method of forming, paint gloss level and stresses within the metal used. Consideration should be given at the design stage to ensure that the proposed designs take this into account. In all cases the ceiling should only be visually assessed when complete, cleaned down, and final artificial lighting installed and operating. Where the lighting solution under consideration is up-lighting please contact our technical department.

Tiles and other components are painted in accordance with the designer's choice of specified colour, gloss level and surface texture to the relevant standards. However it should be noted that minor variations in surface appearance can sometimes be caused by differences in the product form, thickness and paint batch, while still complying within commercial tolerances.

Table 1.

Face Tolerance >300mm	<600mm long	Length	+0.00mm -0.3mm
	<600mm wide	Width	+0.00mm -0.3mm
>600mm	<2400mm long	Length	+0.00mm -0.5mm
	<300mm wide	Width	+0.00mm -0.3mm
Face Deflection >300mm	<600mm length	Edge Centre	-0.00mm -0.3mm
	>600mm	<1500mm length	Edge Centre
>1500mm	<2400mm length	Edge Centre	-2.00mm -5.00mm
Edge Straightness	Suspended		+0.00mm -0.30mm/M concave
Squareness			0.15mm/300mm length
Side Flange Angle 90°			+0.5° relative -2.0° to face
Edge perforated/ plain border			+0.7mm -0.7mm

Standard Dimensional Tolerances

The following tolerances for metal tiles and panels indicate accurate, consistent standards which SAS undertake to achieve. The tolerances may be used or referred to by ceiling designers when specifying their requirements. Closer tolerances may be achievable depending upon manufacturing equipment, techniques, and product range. Where dimensional tolerances are critical SAS should be consulted. The tolerances apply to installed ceilings complete with grid where appropriate.

Pressed tool tiles formed in one action (see table 1.)

Tiles formed by methods other than above (see table 2.)

Face Deflection (see table 3.)

A = Edge Deflection

B = Face Centre Deflection

All from a common flat datum

Table 2.

Length Tolerances	+0.00mm -0.3mm
Width Tolerances	+0.00mm -0.4mm

Table 3.

Width mm	Length mm					
	<1000 A	<1000 B	<2000 A	<2000 B	<3000 A	<3000 B
0<400	-0.5 -1.0	-0.0 -0.4	-1.0 -1.5	-0.0 -5.0	-1.0 -3.0	-0.0 -7.0
>400 <500	-0.5 -1.0	-0.0 -4.0	-1.0 -1.5	-0.0 -6.5	-1.0 -3.5	-0.0 -8.5
>500 <625	-0.5 -1.0	-0.0 -7.0	-1.0 -1.5	-0.0 -8.0	-1.0 -4.0	-0.0 -10.0

In accordance with our policy of continuous product improvement, we reserve the right to amend specifications without prior notice.