

DAMPA®
Marine Ceiling Systems



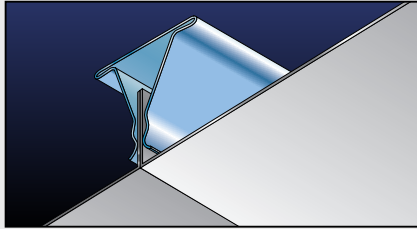
Technical Information
DAMPA CUSTOM-MADE TILES
Decorative Marine Ceiling System

DAMPA Custom-Made Tiles

Consist of unperforated square edged tiles, manufactured from 1.0 mm special aluminium alloy, and supplied in shapes and sizes according to specification down from 600 x 600 mm up to 1200 x 1200 mm. All tiles are clip-in tiles installed into a

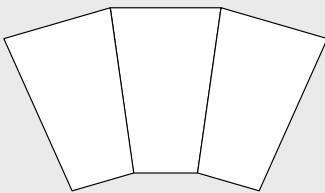
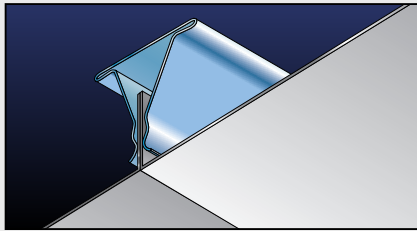
concealed suspension system. Installation can either be conducted to form a distinctly flat and neutral ceiling area by use of Carrier No. 3 - or with an open groove of variable size surrounding each individual tile for ventilation purposes by use of Carrier No. 9.

DAMPA Custom-Made Square and Rectangular Tiles



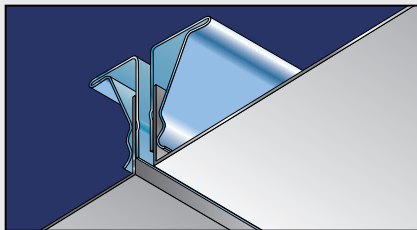
Material:	1.0 mm aluminium alloy
Execution:	Plain/ square edged
Dimensions:	
- Square tiles	From 600 x 600 mm up to 1200 x 1200 mm
- Rectangular tiles	Length/ width from 600 mm up to 1200 mm
Tolerances:	Plus 0/ minus 1.5 mm
Built-in height:	Min. 42 mm/ 65 mm including primary grid
Installation principle:	Clip-in tiles installed into a concealed suspension system
Demountability:	Individually demountable
Colours and surfaces:	DAMPA standard/ catalogue colour or special colours
Packaging:	Per type and dimension
Fire classification:	C-class
CE-Marking:	Fulfil the EEA Marine Equipment Directive 96/98/EC, thus qualified to use the CE Mark of Conformity/ Certified by DNV

DAMPA Custom-Made Fan Shaped Tiles



Material:	1.0 mm aluminium alloy
Execution:	Plain/ square edged
Dimensions:	
- Length	Max. 1200 mm
- Narrow end	Min. 200 mm
- Wide end	Max. 1200 mm
Tolerances:	Plus 0/ minus 1.5 mm
Built-in height:	Min. 42 mm/ 65 mm including primary grid
Installation principle:	Clip-in tiles installed into a concealed suspension system Carriers to run along the mitred sides
Demountability:	Individually demountable
Colours and surfaces:	DAMPA standard/ catalogue colour or special colours
Packaging:	Per type and dimension
Fire classification:	C-class
CE-Marking:	Fulfil the EEA Marine Equipment Directive 96/98/EC, thus qualified to use the CE Mark of Conformity/ Certified by DNV

DAMPA "Rainfall Ventilation"



All tiles can be installed with a linear gap of variable size crosswise to the carrier for air injection in areas where the ceiling void is used as air supply chamber. By use of Carrier No. 9 tiles can be installed with an open groove of variable size surrounding each individual tile. By using DAMPA Spacer Clip No. 1 a groove of 4 mm is achieved. Spacer clips for other groove dimensions are available on request.

Installation Principles

Unless the carriers can be installed directly to existing gridwork, we recommend a primary grid system to minimise the number of suspension points and provide for greater flexibility during installation. DAMPA's primary grid system consists of Carrier No. 14 and the well-proven rigid and easily adjustable suspension principle identical to the fire rated DAMPA DCC 300/200 Marine Ceiling System. Carrier No. 3 and Carrier No. 9 are connected to the primary grid by use of pop rivets/ screws.

Perimeter Details

For ceiling layouts ending with full tiles, use Carrier No. 9 parallel to the other carrier along the perimeter where appropriate.

Where tiles have to be cut, use Edge Trim No. 36.

If so required, DAMPA Custom-Made Tiles can by use of Carrier No. 9 be installed with an open groove of variable size surrounding each individual tile.

Installation of Tiles

Perimeter tiles are installed first by engaging the cut edge into the edge trim and then securing the profiled edge into the carrier.

Corner tiles must be installed before adjacent perimeter tiles.

Tiles are secured to Carrier No. 3 (or No. 9) by applying an upward pressure using the palm of the hand at all four corners.

Additional Support Beam

Custom-made tiles in sizes from 800 x 800 mm and larger and tiles with factory cutouts will be supplied with an additional aluminium support beam attached to the back of the tile. The additional support beam will be positioned in the centre of each tile and is to run crosswise to the carriers when the tile is installed.

Dismantling

It is possible to remove and reinstate individual tiles anywhere in the ceiling. To remove a single tile, insert the dismantling tool up into the tile joint close to any of the four corners and pull down gently.

Integration of Other Items

The DAMPA Custom-Made Clip-In Tiles will themselves carry only the weight of smaller and lighter items such as smoke detectors and smaller downlights, etc. Heavier items are to be supported by the rigid and easily adjustable primary grid, or suspended directly from the above deckhead.

Tiles with Factory Cutouts

All custom-made tiles can on request be supplied with factory formed cutouts according to specification. For example, circular cutouts to fit downlights, speaker grilles, smoke detectors, etc.

Built-In Heights

The minimum constructional height of a DAMPA Custom-Made Tile Ceiling System installed directly to possible existing gridwork is 42 mm.

The minimum constructional height including DAMPA primary grid/Carrier No. 14 is 65 mm.

Weight

The weight of the DAMPA Custom-Made Tile Ceiling System largely depends on the chosen size of tiles.

Small tile sizes influence the number of Carrier No. 3 or Carrier No. 9, but do not increase the consumption of possible primary gridwork.

The total weight of a 1200 x 1200 mm DAMPA Tile Ceiling is only approx. 4.0 kg per sq.m.

The additional average weight of possible primary gridwork as illustrated is approx. 1.2 kg per sq.m.

For possible specific project-related weight calculations, please see the weight of each item.

Colours and Surfaces

Ceiling units are stove-enamelled using non-toxic polyester paint providing excellent paint finish and surface protection. DAMPA's standard colour is NCS 1003-B82G White matt No. 3000-2. Almost any colour shade is available on request.

Classification

Approved and certified by DNV as C-class materials.

Fulfilling also the EEA Marine Equipment Directive 96/98/EC, thus qualified to use the CE Mark of Conformity.

Please contact DAMPA with possible other requirements to ensure compliance.

Packaging

DAMPA standard for truck delivery and/or containerised shipment.

Custom-made tiles will be packed and marked by type, size and colour.

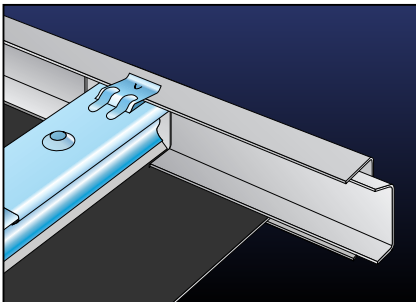
Painted perimeter profiles will be supplied in standardised, rigid, non returnable cardboard boxes, and galvanised suspension components in standard bundles.

All materials to be stored under cover in a dry, ventilated area.

Functionality and Quality

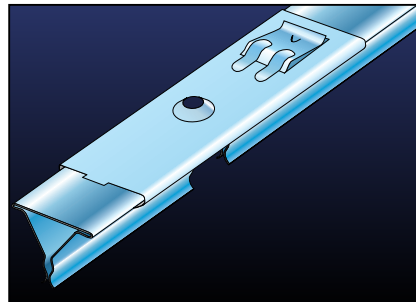
All DAMPA Marine Ceiling Systems are manufactured to high standards within close tolerances to ensure accurate, fast and reliable installation.

The DAMPA Marine Ceiling Systems are produced to DAMPA's Quality Management System approved by Lloyd's Register in accordance with ISO 9002.



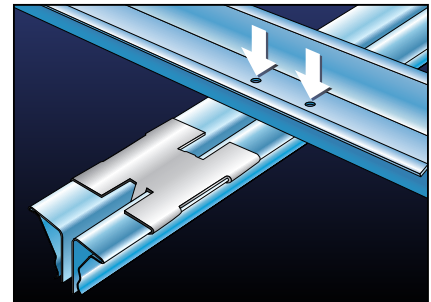
Edge Trim No. 36

Steel Edge Trim No. 36 and Wedge No. 4 are used to secure cut perimeter tiles. Carrier Splice No. 4 is secured to the top flange of Carrier No. 3. It also locates on the top flange of Edge Trim No. 36 to maintain the correct height.



Carrier Splice No. 4

Is centrally positioned over a joint in Carrier No. 3. The distance from the joint to a point of fixation must not exceed 500 mm. A gap of 2-4 mm should be maintained to allow for expansion.



Spacer Clip No. 1

Is used to create a gap of 4 mm between Carriers No. 9, prior to securing these to the primary grid. Spacer clips for other groove dimensions are available on request.

Primary Grid and Hanger Distances

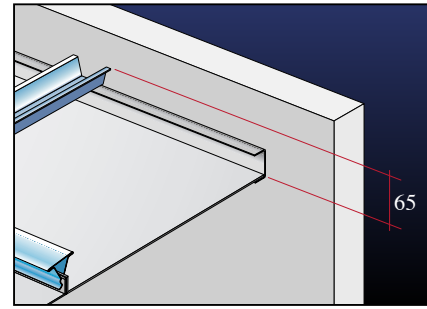
All carrier and hanger centres are maximum distances.

- A: Wall to first hanger 600 mm
- B: Hanger to hanger 1200 mm
- C: Wall to first Carrier No. 14 600 mm
- D: Carrier No. 14 to next Carrier No. 14 . 1200 mm

If luminaires, air diffusers or integrated fittings are incorporated into the ceiling, it may be necessary to provide additional hangers to accommodate the extra weight.

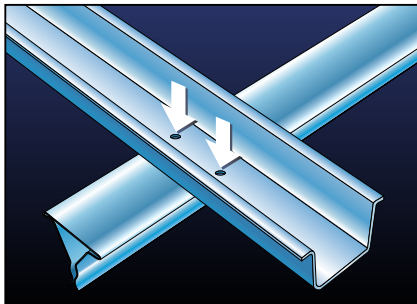
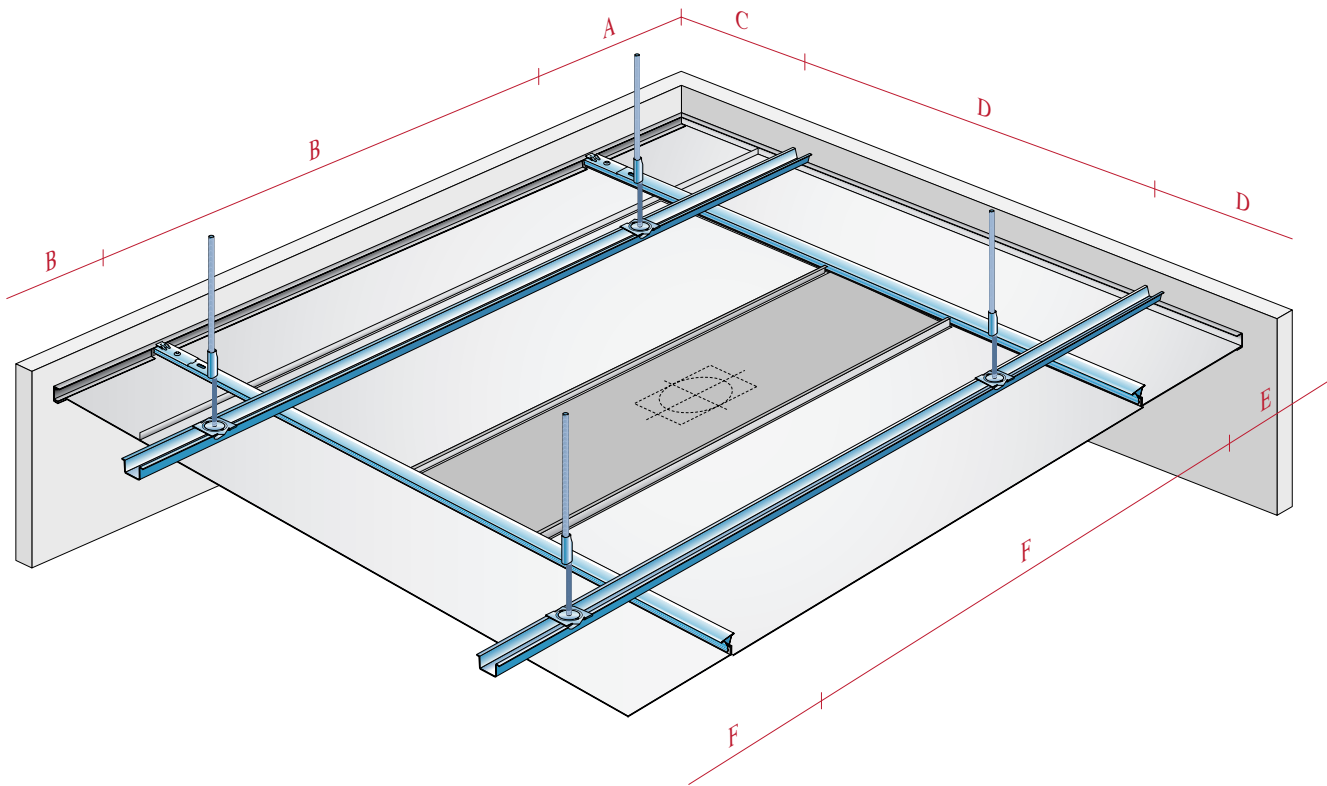
Clip-In Carrier/ Distances

- E: Depending on ceiling layout/ connection to wall.
- F: Determined by size of the tile.



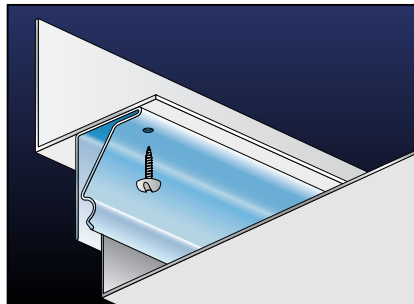
Built-In Height

The minimum constructional height including DAMPA primary grid/ Carrier No. 14 is 65 mm.



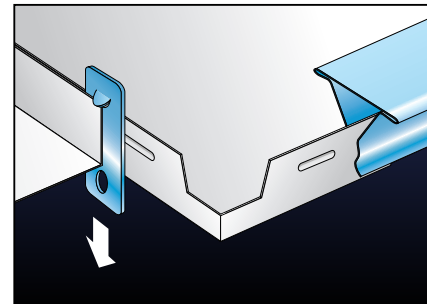
Carrier No. 3

Carrier No. 3 is to be secured to the primary grid Carrier No. 14 by pop rivets/ screws through each of the flanges of Carrier No. 3.



Carrier No. 9

Carrier No. 9 is also used to support possible full size tiles along the perimeter.



Dismantling Tool

It is possible to remove and reinstate individual tiles anywhere in the ceiling. To remove, insert the dismantling tool up into the tile joint close to the corner and pull down gently.



Square and Rectangular Tiles

DAMPA Custom-Made Tiles are all manufactured with square edges to form a distinctly flat and neutral ceiling area. Square and rectangular tiles are available in sizes according to specification from 600 x 600 up to 1200 x 1200 mm. The picture shows a 1200 x 1200 mm square tile to the left and a rectangular tile 600 x 1200 mm on the right.



Fan Shaped Tiles

DAMPA Custom-Made Fan Shaped Tiles are available in shape and sizes according to specification from min. 200 mm at the narrow end up to max. 1200 mm at the wide end and up to 1200 mm in length.

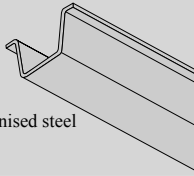


“Rainfall Ventilation”

All tiles can be installed with a linear gap of variable size crosswise to the carrier for air injection in areas where the ceiling void is used as air supply chamber. By use of Carrier No. 9 tiles can, as illustrated, also be installed with an open groove of variable size surrounding each individual tile.

Carrier No. 14

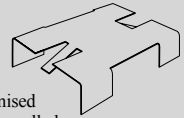
Height : 27 mm
 Width : 51 mm
 Length : 4000 mm
 Weight : 0.75 kg/lin.m
 Material : 1.0 mm galvanised steel

**Threaded Rod M8**

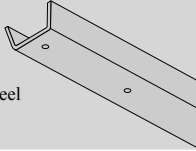
Diameter : 8 mm
 Length : 200, 300, 400,
 500, 600 and
 2000 mm
 Weight : 0.30 kg/lin.m
 Material : Galvanised steel

**Spacer Clip No. 1**

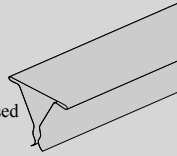
Height : 12 mm
 Width : 44 mm
 Length : 60 mm
 Weight : 0.024 kg/each
 Material : 1.0 mm galvanised
 steel, stove-enamelled

**Runner Splice No. 12**

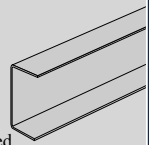
Height : 20 mm
 Width : 51 mm
 Length : 321 mm
 Weight : 0.15 kg/each
 Material : Galvanised steel

**Carrier No. 3**

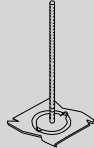
Height : 28 mm
 Width : 35 mm
 Length : 4000 mm
 Weight : 0.42 kg/lin.m
 Material : 0.6 mm galvanised
 steel

**Edge Trim No. 36**

Height : 38 mm
 Width : 15 mm
 Length : 4000 mm
 Weight : 0.32 kg/lin.m
 Material : 0.6 mm galvanised
 steel, stove-enamelled

**Suspension No. 1**

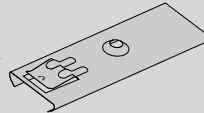
Total height : 150 mm
 Weight : 0.05 kg/each
 Material : Galvanised steel

**Suspension No. 3**

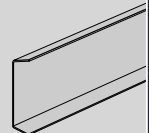
(As Suspension No. 1, but with
 vibration absorbing rubber bush)

Carrier Splice No. 4

Height : 12 mm
 Width : 40 mm
 Length : 110 mm
 Material : Galvanised
 steel

**Wedge No. 4**

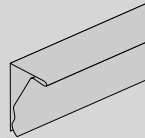
Height : 37 mm
 Width : 14 mm
 Length : 274 mm
 Weight : 0.06 kg/each
 Material : 0.5 mm galvanised
 steel

**Rod Clip No. 2**

Total length : 50 mm
 Weight : 0.015 kg/each
 Material : Galvanised steel

**Carrier No. 9**

Height : 33 mm
 Width : 19 mm
 Length : 4000 mm
 Weight : 0.5 kg/lin.m
 Material : 0.75 mm galvanised
 steel, stove-enamelled

**Dismantling Tool**

Width : 25 mm
 Length : 75 mm
 Material : 0.3 mm spring steel



All products are subject to modifications
 without prior notice



DAMPA®

Marine Ceiling Systems

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A member of the Chicago Metallic group of companies