

DAMPA®
Marine Ceiling Systems



Technical Information
DAMPA DCC 300
Suspended, Fire Rated Marine Ceiling System

Product Description

The DAMPA DCC 300 System is a Fire Rated, Suspended Marine Ceiling System consisting of linear ceiling panels in two modular widths, 300 mm, also available in width 200 mm upon request. The same carrier type is used for both widths. Fast and efficient installation is assured, as ceiling panels are supplied 'pre-cut' in

accordance with customer drawings and specifications. By use of only a few basic components a functional and aesthetically pleasing ceiling can be designed to suit all types of areas. Fast and reliable delivery is a trademark of DAMPA's modern and flexible production facilities.

Ceiling Panels

The DCC 300 Ceiling Panels are made from stove-enamelled 0.6 mm galvanised steel respectively.

The panels can be supplied perforated or plain, and in any specified length, from 600 to 5000 mm as standard.

Lengths less than 600, and up to 6000 mm can be made to order.

All panels are 26 mm deep and are supplied with end closings and 25 mm mineral wool inlay as standard.

The following types are available:

Type 308

Plain surface with inlay of 25 mm mineral wool.

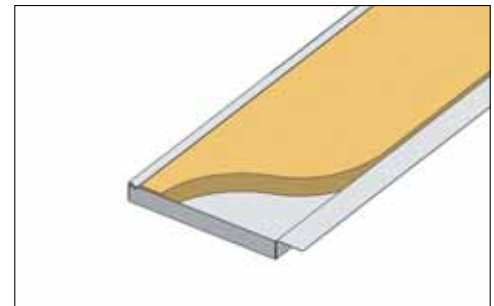
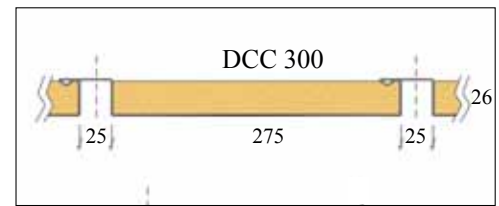
Weight: 6.7 kg/sq.m.

Fire classification: B-0, A-15.

With additional insulation overlay:

Weight: Approx. 8.9/8.4 kg/sq.m.

Fire classification: B-15, A-30, A-60.



Type 315

Perforated with 1.8 mm holes at 3.5 mm centres (20.5%), and with black acoustic left bonded to the reverse side.

Inlay of 25 mm mineral wool.

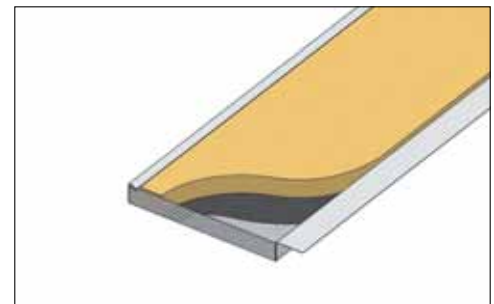
Weight: 5.8 kg/sq.m.

Fire classification: B-0, A-15.

With additional insulation overlay:

Weight: Approx. 8.0/7.8 kg/sq.m.

Fire classification: B-15, A-60.



Type 310

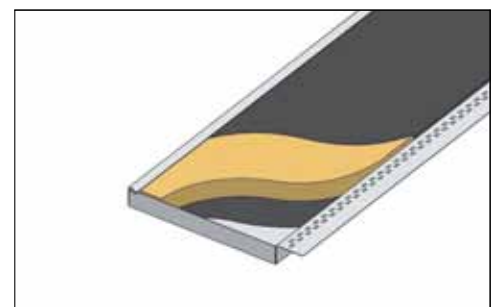
Plain with air injection slots.

Same basic characteristics as type 308, plus 2 rows of 3 x 7 mm air injection slots at 15 mm centres (air inlet area equal to 0.0028 sq.m./lin.m ceiling panel).

Inlay of 25 mm mineral wool in PE-sleeves.

Weight: 6.7 kg/sq.m.

Fire classification: C.



Type 313

Perforated with air injection slots.

Same basic characteristics as type 315.

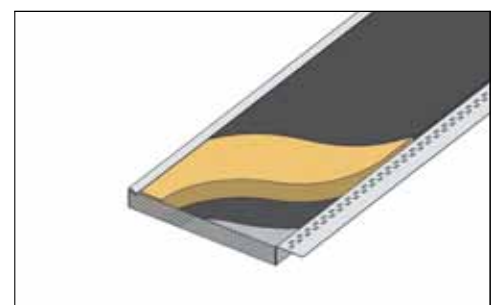
Air injection slots as type 310.

Inlay of 25 mm mineral wool in PE-sleeves.

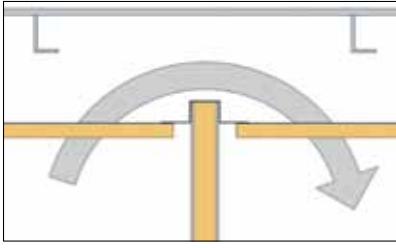
Weight: 5.7 kg/sq.m.

Fire classification: C.

Note: The suspension system, based on average consumption rate, weighs 1.5 kg/sq.m.



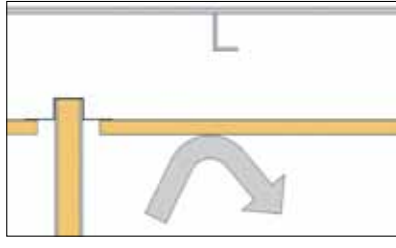
Sound Insulation



Room-to-room sound reduction of 41 dB - 44 dB depending on type of insulation inlay, and from 46 dB - 50 dB depending on type of additional insulation overlay.

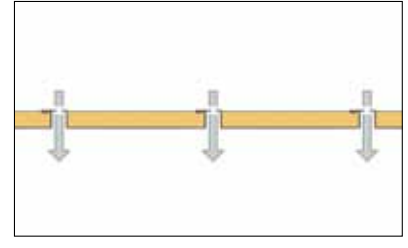
These figures are the results of tests on DCC 300 Plain, by an independent test institute.

Sound Absorption



To reduce the general sound level and reverberation time within a room the perforated DCC Panels can be used effectively for sound absorption.

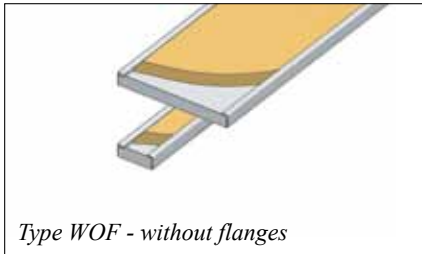
Air Injection



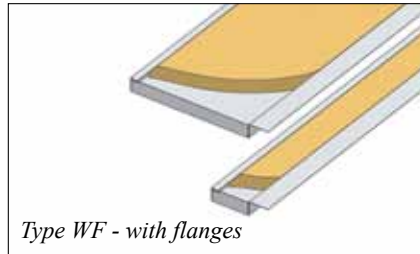
DCC Panels with air injection slots give an even distribution of air. A ventilation solution which is both elegant and cost-effective in C-class areas where the ceiling void is used as an air supply chamber. (See panel description page 3).

Factory Modified Panels

For projects with a large number of identical cabins, Factory Modified Adaption Panels further reduce installation time and costs.



Type WOF - without flanges



Type WF - with flanges

Modified Panels, Type WOF and WF

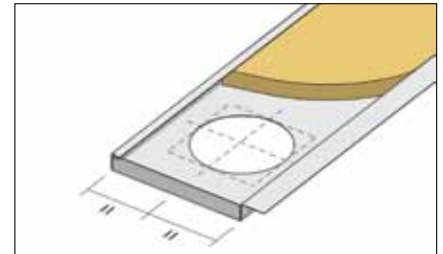
Start Panels are specially formed narrow ceiling panels without flanges. They are identified by the code WOF.

End Panels are narrow versions of the standard shaped ceiling panel. They are identified by the code WF.

Type WOF & WF Ceiling Panels are available in the following widths:

75, 100, 125, 150, 175, 200 and 225 mm.

Other widths can be made to order.



Cutouts

Panels with factory formed cutouts can be supplied to specification.

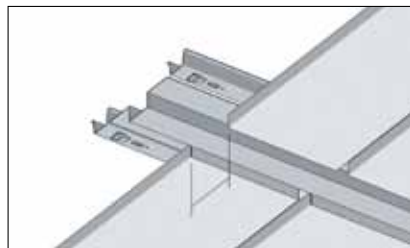
For example, circular cutouts to suit downlights, speaker grilles and smoke detectors, and rectangular cutouts to suit items such as non-modular luminaires.

Downstands & Jointing



Changes in ceiling levels can be achieved in many ways depending on the height of the downstand and the desired visual appearance.

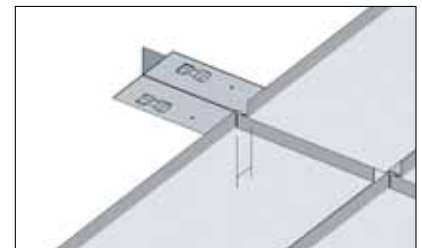
The illustration shows a well-proven principle.



Joining Panel No. 2

Joining Panel No. 2 creates a 100 mm wide joint consisting of a 50 mm wide strip in the ceiling plane, with 25 mm recesses either side.

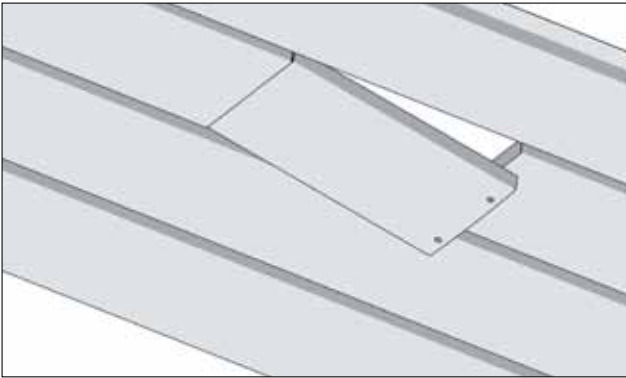
The distance from the ceiling panel ends to the first carrier either side of the joining panel must not exceed 50 mm.



Angle Runners No. 29 Back to Back

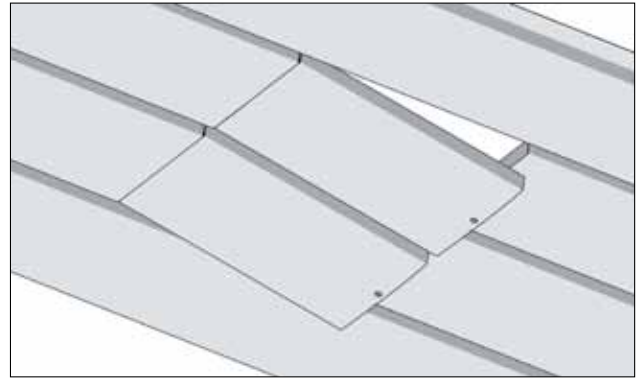
This jointing method using Suspension No. 7 will also create a featured joint with a 25 mm recess between the ceiling panels. If desired, offset the back to back Angle Runners No. 29 to one side by 15 mm to prevent the centre joint being visible in the 25 mm recess.

Inspection/Access Panels



DAMPA Inspection Panels

DAMPA Inspection Panels provide small, easily accessible openings in the DCC 300 Ceiling Systems whereby a modified panel is hinged at 90° to the ceiling panel length. Inspection panels are available in lengths from 300 mm to 600 mm.



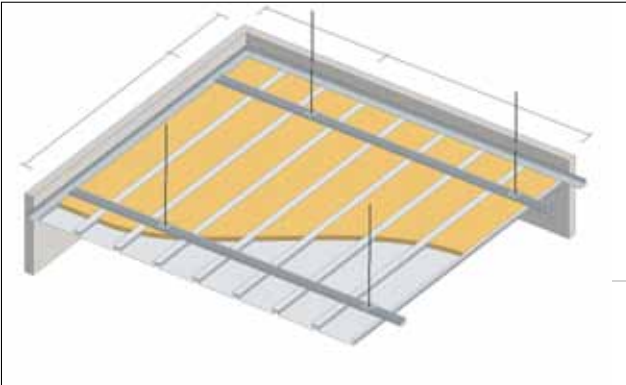
DAMPA Access Panels

DAMPA Access Panels provide large openings in the DCC 300 Ceiling Systems. They are hinged at right angles to the ceiling panel length.

DAMPA Access Panels are available in one standard size, i.e. 600 x 600 mm.

For large quantities other sizes can be made to order.

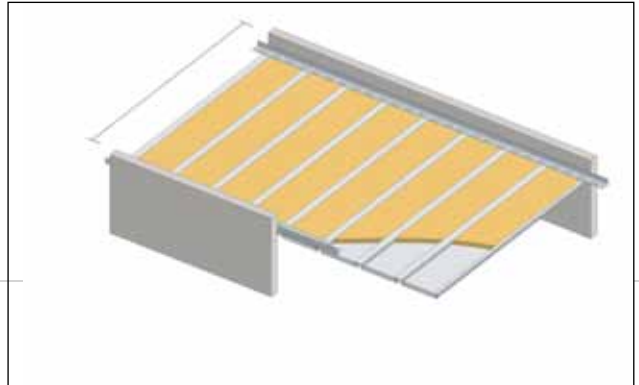
Installation Principles



The Basic Principle -

uses Edge Trim No. 13 or DAMPA Top Profiles along the entire perimeter.

Suspension hangers and Modular Carrier No. 16 provide the ceiling support.



Corridor Ceilings without Hangers -

are possible in areas with widths less than 1250 mm, by using Angle Runner No. 29 (illustrated), or alternatively Modular Carrier No. 45 secured to DAMPA Top Profiles.

Colours and Surfaces

The DCC 300 Ceiling Panels are stove- enamelled with non-toxic polyester paint prior to rollforming, resulting in a superior finish and excellent durability.

Standard Colour White

DAMPA's standard colour is:
Pure White matt No. 4747-2 similar to
RAL 9010

Brushed Stainless Steel

DCC 300 Type 308 is available in 0.5 mm Brushed stainless steel; quality AISI 304, grain size 220, for use in galleys, laundries, etc.

Special Colours

Almost any colour shade is available on request in the following gloss levels (at 60°), designated by code numbers 1, 2 or 5:

xxx-1, gloss 80 +/- 5

xxx-2, matt 10 +/- 3

xxx-5, anti-reflection/textura 0-7

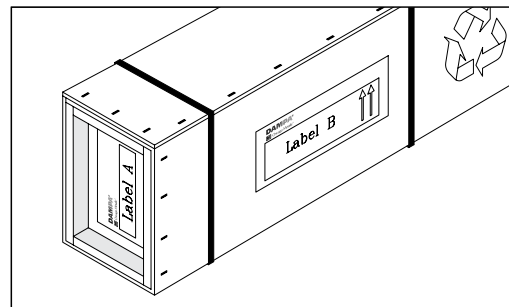
(developed by DAMPA for wheelhouse ceilings).

Special colour requests will be converted to the nearest NCS (Natural Colour System) colour code.

Standard Packaging

Ceiling Panels

The DCC 300 Ceiling Panels are supplied in standardised, rigid non returnable cardboard boxes easy to stack for optimum handling and storage. Standard boxes, of varying lengths to suit ceiling panels, normally contain 8 pieces of DCC 300 Methods of packing may vary slightly between the different DAMPA production centres.



Environmentally friendly recyclable packaging materials.

Accessories

Small suspension components such as Rod Clip No. 2, Suspension No. 1, etc. and stove-enamelled items such as edge trims are supplied in standard cardboard boxes.

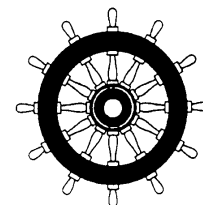
Modular carriers, top and bottom profiles, threaded rods, etc. are supplied palletted in bundles.

Truck Delivery/Containerised Shipment

All materials are packed to suit both truck delivery and containerised shipment.

Please note that the maximum ceiling panel length that can be accommodated in a 20' container is 5700 mm.

Certificates and Approvals



**Marine Equipment Directive
96/98 EC**

IMO and SOLAS Requirements


The DAMPA DCC 300 Ceiling System has been tested in accordance with the latest IMO and SOLAS requirements regarding resistance to fire, flame spread and toxicity.

Non-Toxicity and Calorific Value

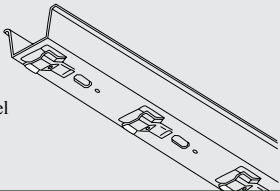
The stove-enamelled surface of the DAMPA DCC ceiling panels has passed the IMO non-toxicity test and the calorific value is proved to be less than 1 MJ/sq.m.

Basic Installation Components


Threaded Rod M8
 Diameter : 8 mm
 Length : 200, 300, 400, 500, 600 and 2000 mm
 Weight : 0.30 kg/lin.m
 Material : Galvanised steel



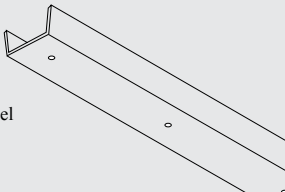
Modular Carrier No. 16
 Height : 27 mm
 Width : 51 mm
 Length : 4000 mm
 Weight : 0.75 kg/lin.m
 Material : Galvanised steel



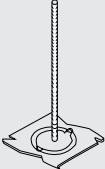
Rod Clip No. 2
 Total length: 50 mm
 Weight : 0.015 kg/each
 Material : Galvanised steel



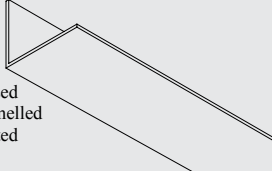
Runner Splice No. 12
 Height : 20 mm
 Width : 36 mm
 Length : 321 mm
 Weight : 0.15 kg/each
 Material : Galvanised steel



Suspension No. 1
 Total height: 150 mm
 Weight : 0.05 kg/each
 Material : Galvanised steel

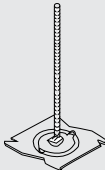


Edge Trim No. 13
 Height : 40 mm
 Width : 55 mm
 Length : 4000 mm
 Weight : 0.80 kg/lin.m
 Material : 1.0 mm galvanised steel, stove-enamelled
 Colour to be stated

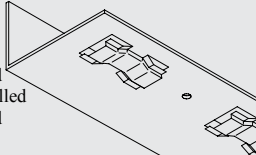


Optional Installation Components

Suspension No. 3
 Vibration absorbing suspension
 Total height: 150 mm
 Weight : 0.05 kg/each
 Material : Galvanised steel with rubber bush

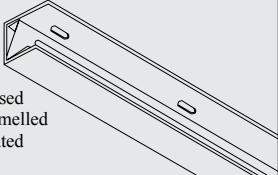


Angle Runner No. 29
 Height : 40 mm
 Width : 64 mm
 Length : 4000 mm
 Weight : 1.05 kg/lin.m
 Material : 1.0 mm galvanised steel, stove-enamelled
 Colour to be stated

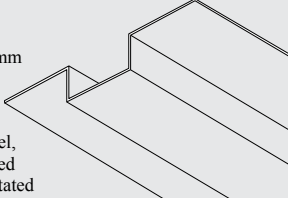


Edge Trims, Joining Panels and Accessories

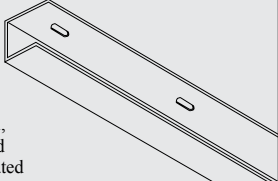
Edge Trim No. 26
 Height : 27 mm
 Width : 25 mm
 Length : 4000 mm
 Weight : 0.80 kg/lin.m
 Material : 1.0 mm galvanised steel, stove-enamelled
 Colour to be stated



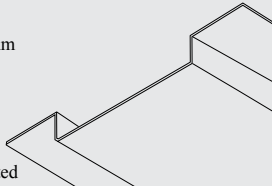
Joining Panel No. 2
 Height : 29 mm
 Width : 55 + 50 + 55 mm
 Length : 3000 mm
 Weight : 1.05 kg/lin.m
 Material : 0.6 mm galvanised steel, stove-enamelled
 Colour to be stated



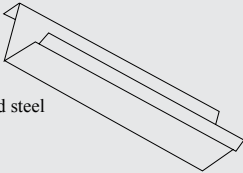
Edge Trim No. 27
 Height : 27 mm
 Width : 25 mm
 Length : 4000 mm
 Weight : 0.65 kg/lin.m
 Material : 1.0 mm galvanised steel, stove-enamelled
 Colour to be stated



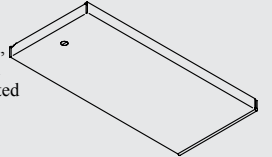
Joining Panel No. 3
 Height : 29 mm
 Width : 55 + 150 + 55 mm
 Length : 3000 mm
 Weight : 1.45 kg/lin.m
 Material : 0.6 mm galvanised steel, stove-enamelled
 Colour to be stated



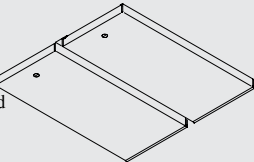
Clip Inlay No. 3
 Height : 25.5 mm
 Width : 24.5 mm
 Length : 2000 mm
 Weight : 0.15 kg/lin.m
 Material : 0.3 mm galvanised steel



Inspection Panel
 Module : 300 mm
 Length : 300 to 600 mm
 Material : Galvanised steel, stove-enamelled
 Colour to be stated



Access Panel
 Module : 2 x 300 mm
 Length : 600/400 mm
 Material : Galvanised steel, stove-enamelled
 Colour to be stated



Additional insulation for B-15/A-60 class
 Separately delivered in 600 x 1000 mm batts

Type	Min. wool	Firebatts	Firebatts
Thickness	: 50 mm	25 mm	35 mm
Weight/sq.m	: 1.6 kg	2.7 kg	3.8 kg
Fire classification	: B-15/A-60	B-15/A-60	B-30

All products are subject to modifications without prior notice