DESCRIPTION

The MELLOWCLOUD® DIF is a One Dimensional Curved Shaped Diffuser Acoustic panel for Multipurpose, Auditoriums and Theatre Halls. This is a product that was designed to be suspended in ceilings or metal grids; it can be also used as fixed or motorized acoustic shells. This type of acoustic material is mainly applied in large area of application such as auditoriums, conference rooms, multipurpose rooms and airports, places where acoustic treatment with a modular continuous surface is required.

It is a diffuser material that also provides somewhat of homogeneous sound spectrum absorption. The MELLOWCLOUD® DIF evolves and meets the aesthetic challenge, while also offering an optimal sound diffusion and absorption characteristics.

The architecture involves rectilinear and curvilinear lines. Flat rigid surfaces provide uneven sound pressure across the audience area. Shaping and curving the surfaces can improve the coverage of the sound diffusion; this will help the results, although it is a vast subject that requires its own tools of experimentation on case-by-case base for each project. MELLOWCLOUD® DIF provides architects and designers with wide latitude in curvilinear design.

MELLOWCLOUD® DIF can be customized as to its shape and size to better adapt to each space. Custom panels offer a large variety of types, sizes, ellipses, geometric shapes, vaults, acoustical domes, thicknesses, and finishes.

FEATURES

• JCP® micro-fibers glass and reinforced gypsum and finishing.
• Average diffusion: 0.27/m² [>100Hz; <5KHz].
• MRC: 0.18/m².
• Fire-resistance: Euroclass A2-s1,d0 (similar to old MO).
• Standard and custom shapes.
• Optimized shape, arraying and positioning insures uniform coverage.
• Suspended using integrated mounting hardware and cable system (only four supports/hangers by each panel).
• Very lightweight (4 Kg/m² - 80 mm thick panel).

DIFFUSION - ABSORPTION COEFFICIENT

DIFFUSION COEFFICIENT: These values were obtained by mathematical calculations and tests carried out in our laboratory.

ABSORPTION COEFFICIENT: Values in accordance with the standards: EN 20654, ASTM C423 and EN 11654.

TECHNICAL DRAWINGS

MODELS AND SIZES

IMPORTANT NOTICES

STANDARD FINISHING COLOURS

DIFFUSION COEFFICIENT: These values were obtained by mathematical calculations and tests carried out in our laboratory. 

DIFFUSION COEFFICIENT: These values were obtained by mathematical calculations and tests carried out in our laboratory. 

VALUES [<100Hz and > 5K] are Non Standard Values.

IMPORTANT NOTICES

• JCP® accepts no responsibility for any printing errors. Specifications can be modified without prior notice, if technical or commercial reasons so require.
• MRC® is an international independent colour standard system partner for industry, trade, architecture and design. Should be consulted before placing any order.
• The colours shown on this catalogue are only a reference and an illustration of the products finishing. The colours shown are not binding because brightness, contrast and colour balance may vary due to the printing process. 
• Colours may vary due to raw-material suppliers’ changes and some differences may occur in tonal range.
• RAL® is an international independent colour standard system partner for industry, trade, architecture and design. Should be consulted before placing any order.