

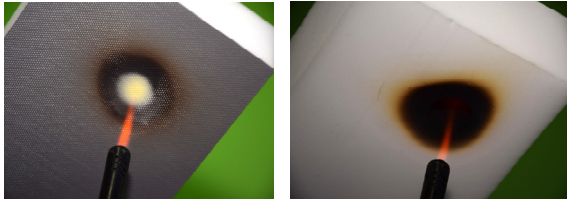
Sound Absorption: Megasorber FM Panel Fireproof Light Weight Acoustic Panel



Product Codes: Megasorber FM25, FM38, FM50, FM75 and FM100

Megasorber FM sound absorbing acoustic panels are non-combustible and extremely light weight, making them easy to handle, cut and install for architectural applications.

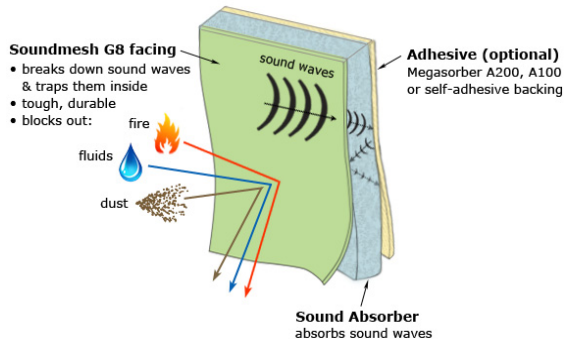
- Non-Combustible Properties**



No ignition, no spread of flame from both the front and the back of FM panel, when exposed to fire

The Megasorber FM base foam is a thermoset material with a cross-linking mesh structure. When exposed to an open flame, it prevents the fire from burning due to rapid carbonization. As a result, the foam does not ignite, nor produce any drips or harmful chemicals.

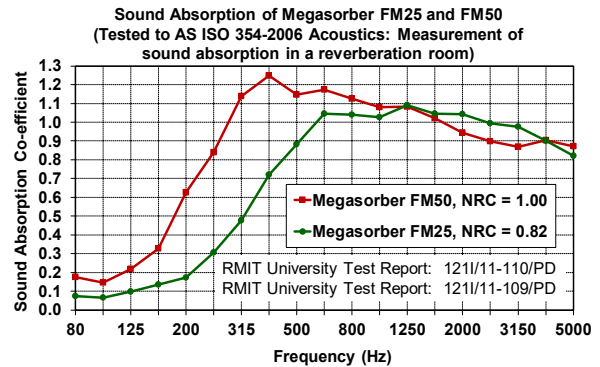
The FM panel also utilises a patented fireproof sound absorbing facing material 'Soundmesh G8' (U.S. Patent No. 8167085, Canadian Patent No. 2674986, Australian Patent No. 200926197) to provide maximum sound absorption especially at low to mid frequencies.



Megasorber's patented sound absorption mechanism

The unique facing material, Soundmesh G8, has BS 476 Part 4 'Non-combustible' classification, BCA (Building Code of Australia) Group 1 Fire Classification and ISO 5660 Group 1 Fire Classification. Soundmesh G8 complies with IMO Resolution A653(16) requirements. Soundmesh G8 has high temperature resistance up to 550°C. Traditional fireproof faced materials and sound reflecting film facings (such as aluminium foil, mylar film and polyurethane film) have little or zero acoustic properties and block noise from being absorbed by the

underlying foam. In contrast, Soundmesh G8 has been engineered and tuned to maximise the sound absorption. The typical NRC (noise reduction coefficient) is 0.82 for FM25 (25mm thick) and 1.0 for FM50 (50mm thick).



- Thermal Insulation**

Megasorber FM base foam is engineered with an extremely fine cell structure. The 3D grid cell structure traps air and effectively blocks any heat transfer. The foam base provides exceptional thermal insulation, making it one of the most effective lightweight thermal insulation materials on the market.

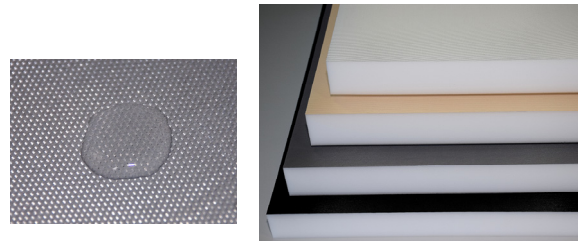
- Heat, Aging and UV Resistant**

The Megasorber FM base foam has excellent heat, UV and aging resistance due to its thermoset nature. It can withstand up to 180°C (short time) without decomposition and up to 150°C continuous operating temperature without any distortion.

Because Megasorber FM is UV and hydrolysis resistant, it is very durable (long service life) in hot and humid conditions such as aquatic swimming centres and tropical environments.

- Handling, Installation and Maintenance**

Megasorber FM acoustic foam is extremely light-weight and self-supporting, making it easy to handle, cut and install. The Soundmesh G8 facing is protective, tough and durable. The built-in fluid / water repellent property (optional) of Soundmesh G8 provides for easy cleaning and maintenance making it ideal for outdoor applications.



Water repellent. Colours: White, Sandstone, Grey and Black