



Rockwood Cladding Acoustic Values

Rockwood cladding panels had their acoustic values tested by one of our customers in 2006. Since then we have used these values in all our marketing material. There are principally 2 ways to measure acoustic value. Sound absorption and sound that is bounced back. The STC is a measure of the noise reduction of a material when measured over the human hearing range of 125 to 4000 cycles per second. Specific cycles per second for sound source (or noise) on one side of the material are established in ASTM E 90; the sound transmitted through the material is measured on the opposite side of the construction. The sound transmission loss in decibels is measured at each frequency. Each test sample is subjected to sound at 125, 250, 500, 700, 1000, 2000, and 4000 cycles per second.

Rockwood Cladding Panels with in-mould Acrylic coating

Acts as a medium-frequency absorption acoustic panel. The Slate & Everglades shape and design eliminate the first convergent angles that are reflected in the rooms

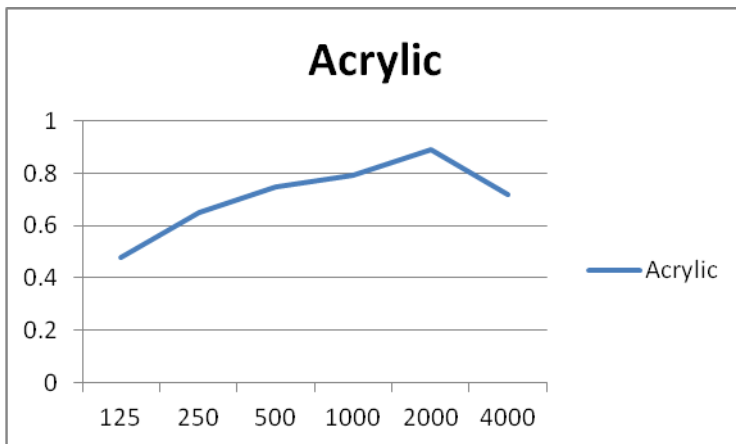
The acrylic in-mould face of the panels have a specific absorption value. And due to its shape the decorative wall cladding panels combine perfectly, technically and aesthetically, with the polyurethane filler to reduce noise

Inside raw-materials with different absorbing properties have been applied. The polyurethane filler has a good absorbing coefficient at medium frequencies.

Suitable for : Auditoriums, studios, residential

Absorption Coefficient

125 250 500 1000 2000 4000
0.48 0.65 0.75 0.95 0.89 0.72





Rockwood Cladding Panels with RX67F

Performs well in the medium-to-high frequency absorption acoustic range. The irregular shape of our Slate & Everglades design eliminate the first convergent angles that are reflected in the rooms

The RX67F face of the panel improves the specific absorption value due to the closed-cell molecular structure of the PU being present through-out the panel. And due to its shape the decorative wall cladding panels combine perfectly, technically and aesthetically, with the polyurethane filler to reduce noise

Suitable for : Auditoriums, music rooms, studios, practice rooms, residential

Absorption Coefficient

125 250 500 1000 2000 4000
0.62 0.82 0.78 0.81 0.54 0.49

