



Technical Specifications RockWool Firebatt 100/130



SOUND SHIELD

ENGINE

SERVICE CHANNEL

Insulation materials used in shipboard applications must serve a number of purposes. The top three of these are structural fire protection, acoustic insulation and thermal insulation. Rockwool Firebatt materials are available in a wide range of densities to meet a vessel's specific insulation requirements with minimal impact on weight.

Structural fire protection is insulation that is applied to a deck or bulkhead to create a fire boundary. These boundaries are rated for 0, 15, 30 and 60 minutes per the A, B, C and H tests prescribed in the International Maritime Organization's (IMO) Fire Test Procedure Code (FTP). Classification societies have rules regarding what level and duration of fire protection must be used in designated areas, per the IMO ratings. One example of this would be the requirement for A-30 bulkheads and decks in the engine room of a vessel of less than 500 gross tons classified by MCA*.

It is important to understand that it is the assembly and not the material that is certified by the FTP tests. The assembly includes the insulation material, density, and thickness as well as the substrate to which it is attached (steel or aluminum) and specifics such as installation pin spacing and wrapping of beams. Rockwool Firebatt materials carry an A rating on bulkheads and decks constructed of steel or aluminum. Most other mineral wool materials are rated only on steel constructions. (see rated assemblies on the back)

Firebatt's high thermal resistance (R) allows it to provide a fire barrier for an hour or more. This high R value also means that Firebatt materials are an excellent choice for a ship's thermal insulation. Proper insulation of occupied spaces increases crew and passenger comfort while reducing energy demand from climate control systems. Firebatt 100/130 provides thermal conductivity values of $R = 0.035 \text{ W/mK}$.

Firebatt materials also have excellent acoustic performance and can be used in a number of applications to reduce shipboard noise. As acoustic absorption with a NRC of up to 0.90, Firebatt materials are a good choice for reducing reverberant noise in machinery and occupied spaces. These absorptive properties also allow for use as fill in wall cavities or behind mass layers where it can reduce the transmitted noise of a typical assembly by 4dBA.

Panels with a lead septum are also available for an easily installed material with high transmission loss and absorptive properties.



Marine FireBatt 100/130 is ideal for meeting the structural fire protection, thermal and acoustic requirements on a wide range of vessels. Soundown can provide a range of vapor barrier finishes including fiberglass cloth, white scrim and a range of aluminized foils. Comprehensive installations with Soundown Quietech or QuietClad finish materials suspended on the IsoGrid system are effective, durable and aesthetically pleasing machinery space insulation packages.

For vessels built to class, remember to provide your Soundown representative with the classifying body as well as specific requirements of the areas to be insulated. If you do not know this information we will be happy to help you figure it out.

* Fire rating should always be confirmed with class before purchasing or installing any material aboard classed vessels.



2010.1.A

8"ID (203.2mm) ENGINE EXHAUST PIPE

DUAL-LIFT (0.123m³)



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SOUNDOWN CORPORATION

ACOUSTIC INSULATION DETAIL

SIZE	PART NO.	REV	DATE	DWG NO.	TITLE
A	AV1010		09/09/10	1010	
SCALE	NONE	DATE	09/09/10		DRG#

Steel Deck Installations



A-60

MED-B-4188

Product Marine Firebatts 100
Density 100 kg/m³
Thickness Level 60 mm
 Stiffener 25 mm

Advantages



A-60

MED-B-4188

Product Marine Firebatts 130
Density 130 kg/m³
Thickness Level 2x30 mm
 Stiffener 30 mm

Advantages



Steel Bulkhead Installations



A-60

MED-B-4189

Product Marine Firebatts 100
Density 100 kg/m³
Thickness Level 40 mm
 Stiffener 25 mm

Advantages



A-60

MED-B-4189

Product Marine Firebatts 130
Density 130 kg/m³
Thickness Level 40 mm
 Stiffener 40 mm

Advantages



Aluminum Bulkhead Installations



A-60

MED-B-4190

Product Marine Firebatts 130
Density 130 kg/m³
Thickness Level 2x30*, 2x30** mm
 Stiffener 2x30 mm

Advantages



**Insulation thickness on the side of stiffener, **Insulation thickness on the other side*



A-60 restricted

MED-B-4190

Product Marine Firebatts 130
Density 130 kg/m³
Thickness Level 2x30 mm
 Stiffener 2x30 mm

Advantages



Aluminum Bulkhead Installations



A-60

MED-B-4191

Product Marine Firebatts 130
Density 130 kg/m³
Thickness Level 2x30 mm
 Stiffener 2x30 mm

Advantages

