



CAMMACH ACOUSTIC SILENCING BLANKET



Cammach Group Ltd
Cammach Business Centre.
Greenbank Road
East Tullos.
Aberdeen AB12 3BN
Tel: 0044 (0) 1224 249977
E: info@cammachgroup.com
W: www.cammachgroup.com





INTRODUCTION

The Acoustic blanket has been developed specifically for offshore applications, using a combination of Fire retardant, weatherproof sheeting, and Muftilag, high absorbency sound quilting.

This combines to make a robust, versatile product which can be easily used in a large variety of applications. The ease of installation allows the sound absorbing blankets to be readily fitted and removed for equipment access and maintenance.

The product can be used as a curtain to enclose noisy engines, pumps and motors, without any of the complexity required when fixed panels are used.

It can be easily used to achieve a temporary sound proofed work area enclosure, where working on a local piece of equipment within a noisy area is required.

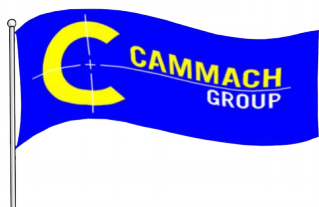
The blanket is fitted with built in support loops, allowing for an easy and flexible installation arrangement.

Please refer to the technical data sheets for specific material information.

Acoustic insulation: Muftilag TQ 22

External membrane: Silicon coated glass cloth





Muflilag / TQ22

Muflilag Acoustic Laminate is a three-part laminate, manufactured from shot free non-combustible glass mineral wool, which is quilted to eliminate de-lamination and fibre migration. The centre core of polymeric barrier is finished with a choice of either, a Class O foil vapour barrier or a further layer of quilt. This strong and resilient product provides a cost-effective acoustic lagging, which is rot-proof, odourless, non-hygroscopic, and will not sustain vermin or encourage the growth of fungi, mould or bacteria. Muflilag Acoustic Laminate is dimensionally stable under varying conditions of temperature and humidity as well as being compatible with all surfaces on which this product is likely to be used, in normal applications.

Muflilag TQ22 is available in the following grades:

- TQ22 (No barrier core).
- TQ22L (With lead barrier core)
- TQ22B (With polymeric barrier core)

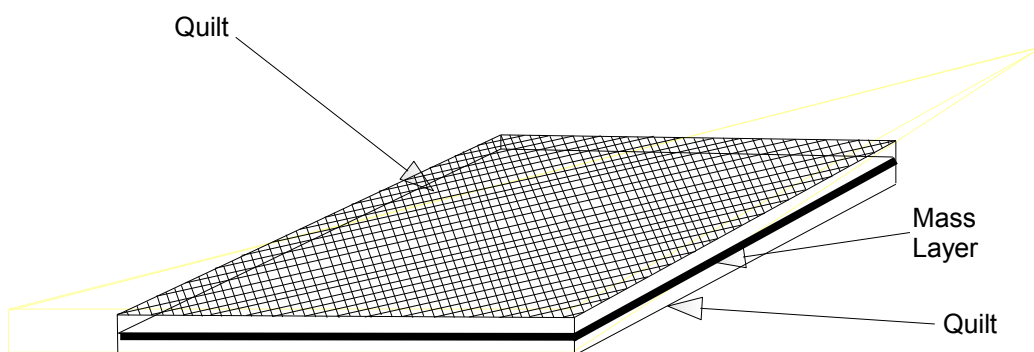
Muflilag TQ22 Acoustic Laminate is the most versatile and acoustically efficient grade of quilting offering absorption and attenuation plus the facility to mould to complex contours.

Applications

Applications include vehicle engine compartment lining, complex jacketing of pumps and similar items of plant, fan jackets, removable pipe and duct lagging, acoustic screens, ship and boat engine room insulation, offshore oil rig equipment, compressor and turbine Insulation.

Material is supplied in sheets or can be cut to size to suit individual requirements. The product can also be fully encapsulated with H&V reinforced aluminium foil as well as edge binding and eyelets.

A typical Muflilag acoustic laminate would be; TQ22 quilt laminated, to 5 or 10 kilo barrier, laminated to TQ22 quilt = Muflilag 5b/20 or 10b/20, (See diagram below).

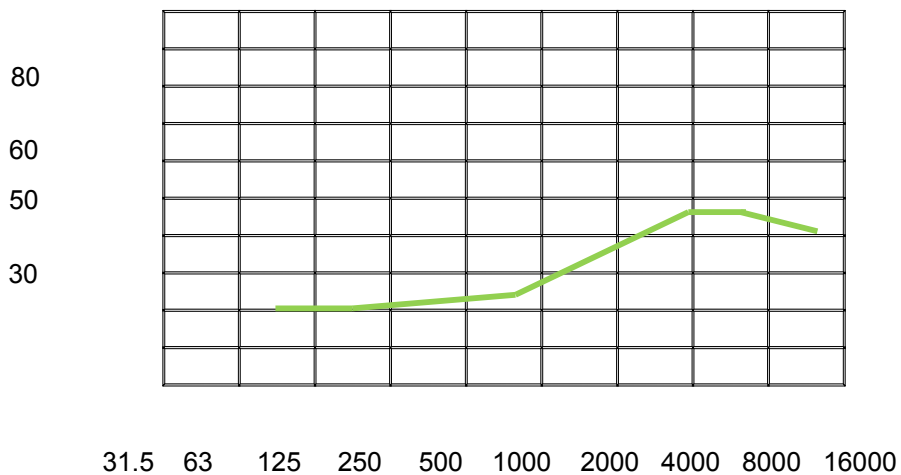


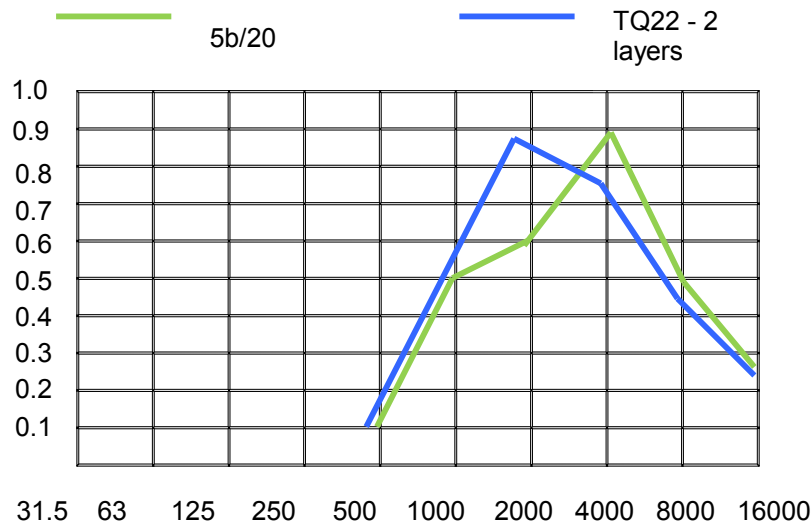


Technical Details

Material	Muutilag
Surface Mass of Core	5 or 10Kg/m ²
Glass Fibre Density	22kgm ²
Operating temperatures	-30°C to + 150°C
Fire Resistance	BS 476 Part 4 Class 1 surface spread of flame when tested to BS 476 Part 7. Facing complies with Class O - tested to BS 476 Part 7 1987 Polymeric barrier FMVSS 302 self-extinguishing
Chemical Resistance	Oils, fuels, most solvents, water etc.
Composite Thickness (nominal)	15mm

Sound Reduction Index (dB)





Note: Information and directions in relation to our products are based upon experimental and practical experience, but they are only general recommendations. Local conditions can affect the result and as labour conditions are out of our control, we cannot take any responsibility for the results obtained when using our products.





Transmission Loss TQ22 10-30

Freq /Hz	Source /dB	Receiver /dB	RT60 /s	Diff /dB	SRI /Db
50	78.5	64.6	15.3	13.8	15.0
63	82.3	71.3	10.6	10.9	10.5
80	96.5	80.1	11.5	16.4	16.3
100	95.6	82.1	10.5	13.5	13.1
125	96.5	80.1	11.4	16.4	16.3
160	97.5	80.2	12.1	17.3	17.5
200	91.8	74.7	12.3	17.1	17.3
250	94.2	75.3	13.2	18.9	19.4
315	95.8	75.1	11.0	20.6	20.4
400	95.4	72.9	12.7	22.5	22.9
500	93.8	69.8	10.1	24.0	23.4
630	91.6	66.1	9.7	25.5	24.7
800	90.9	64.2	8.7	26.7	25.4
1000	91.8	63.8	8.0	28.0	26.4
1250	90.3	61.3	7.1	28.9	26.8
1600	90.4	59.3	6.4	31.1	28.5
2000	92.6	58.1	5.7	34.4	31.4
2500	91.6	55.6	4.6	36.0	31.9
3150	89.5	53.1	3.7	36.4	31.5

Source: Institute of Sound and Vibration Research April 2002





Silicon Coated E-Glass Cloth

Finished Fabric	Units	Value	Tolerance
Weight	g/m ²	505	5%
Thickness	mm	0.4	5%
Usable Width (standard)	mm	1330	5%
Roll Length (standard)	m	50	
Maximum Operating Temp	°C	220°	
Colour/Description	Silver/grey coating one side, lightly caramelised glass fibre opposite side.		

Basic Fabric Construction

Weight	g/m ²	425	5%
Weave pattern		4H Satin	
Construction			
Warp	per cm	19.2	5%
Weft	per cm	11.2	5%
Yarn Count			
Warp	Tex	EC9 136	
Weft	Tex	EC9 136	
Tensile Strength			
Warp	N/5cm	4800	10%
Weft	N/5cm	3700	10%

Treatment/Coating Details

Weight	g/m ²	80	10%
--------	------------------	----	-----

One sided silver-grey silicon @ 80g/m²

Comments

*Maximum continuous operating temperature is 200°C, with short periods up to 250°

The uncoated side of this fabric is subjected to extended heating which cures the silicone further and caramelises the fibre, the resultant cloth feels firmer and is less prone to fraying during cutting or sewing than softer versions. A softer more flexible version is also available.

The basic fabric will withstand 550°C (unstressed), the melting point is >800°C

Note: The information and instructions provided in relation to our products are based on experimental and practical experience and are general recommendations. Local conditions can affect the results and as the qualification and experience of the personnel used in the installation is beyond the control of Cammach Group Ltd we do not take responsibility for the results obtained when using our products.

