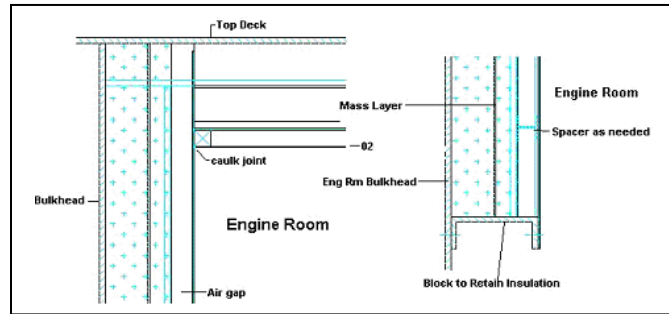
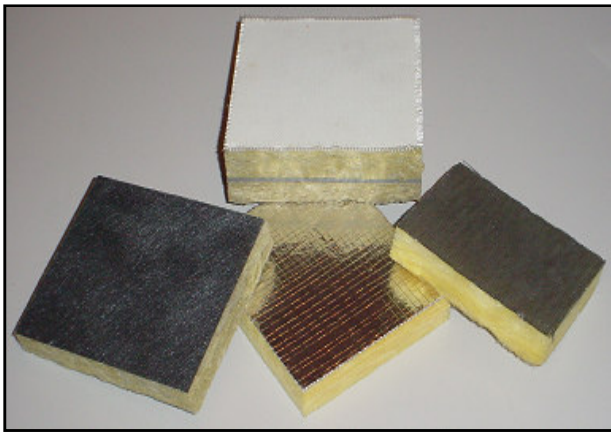


THERMAL- ACOUSTIC CONTROL MATERIALS

NVT HULLBOARD

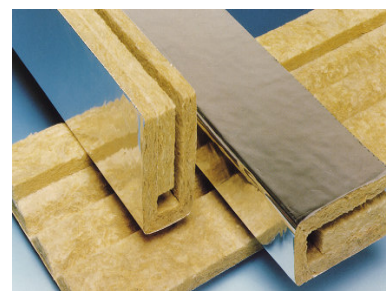
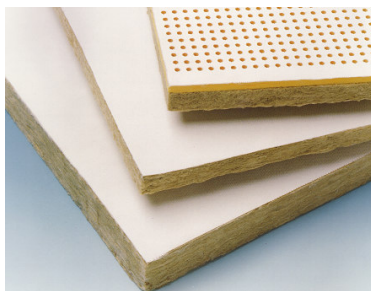


NVT Hullboard products are thermal and acoustic insulation boards made from FIBERGLASS or MINERAL WOOL (4,5.5,6,7&8 PCF densities). These NON-COMBUSTIBLE hullboard products are offered with a variety of facings including standard fiberglass navy cloth (CF), reinforced mylar (WM), 2mil aluminum foil (FF), grooved-acoustic- perforated cloth (GrAc) and waffle backed perforated cloth (WP).

NVT Hullboard products are designed for use in shipboard applications requiring thermal, acoustical or fire wall treatment such as bulkheads, overheads, stiffeners and beams.

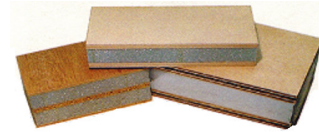
NVT Hullboard products can be combined with various septa materials to provide transmission loss treatments to shipboard areas requiring noise reduction or attenuation. For additional acoustic performance, the base board can be grooved or a waffleboard can be laminated to the base board. These products are faced with perforated fiberglass cloth.

NVT Hullboard products offer low installed cost, superior thermal and acoustic performance, excellent fire resistant properties and compliance to Military and USCG specifications when requested.



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NVT HULLBOARD

DATA	HB-PL	HB-CF	HB-WP	HB-WM	HB-GR	MW-PL
Specification Compliance						
Military	MIL-I-742 TY2	MIL-I-742 TY1	MIL-A-23054	MIL-I-22023 TY3		
USCG	164.009	164.009		164.009	164.009	164.007
		164.012		164.012	164.012	164.009
Thermal Conductivity						
ASTM C-518 BTU-in-hr(1)-ft(2)-degF(1)	0.23	0.23	0.23	0.23	0.23	0.24
Density						
ASTM D-1667	2.8	2.8	2.8	2.8	2.8	5.5 to 8.0
USN 1/4 Scale Fire Test	N/A	N/A	N/A	PASS	N/A	N/A
Surface Burning						
ASTM E-84 Flame Spread	25	25	20	10	N/A	N/A
Smoke Developed	50	5	50	20	N/A	N/A
Structural Fireboard Rating						
A-15	N/A	N/A	N/A	N/A	N/A	1" (8.0#)
A-30	N/A	N/A	N/A	N/A	N/A	1-1/2" (6.0#)
A-60	N/A	N/A	N/A	N/A	N/A	2" (5.5#)
Standard Thickness' are 1"(25mm), 1-1/2"(38mm), 2"(50mm)						
Standard Sheet Sizes are 24"(610mm) x either 36"(915mm) or 48"(1220mm)						

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