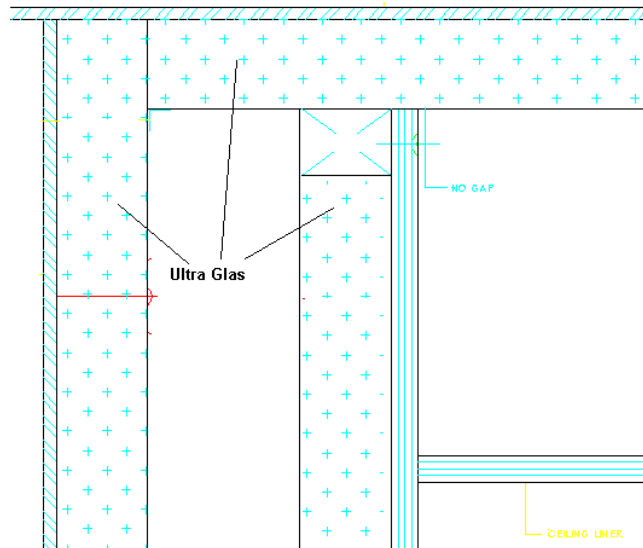
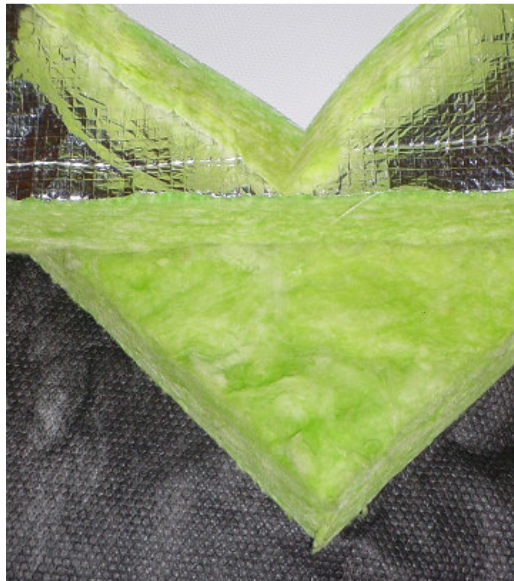


THERMAL- ACOUSTIC CONTROL MATERIALS



UltraGlas

UltraLight Thermal-Acoustic Insulation

ULTRA-GLAS thermal-acoustic insulation blanket is a unique, non-irritating and Ultra Lightweight resin bonded FIBERGLASS BLANKET. **ULTRA-GLAS** was developed as an alternate to DOD-I-24688 (Polyimide) and also meets the spec criteria for MIL-I-742 (Hullboard), MIL-I-22023 and MIL-A-23054 (Thermal-Acoustic Blanket). **ULTRA-GLAS** provides reduced weight, space, installed cost and improved acoustic performance. At just 12 kg/m³ density, **ULTRA-GLAS** is in a class with polyimide, melamine and spun Olefin and exhibits superior flame, wicking and durability.

ULTRA-GLAS can be laminated to various acoustic barrier septa and marine approved facings such as: Fiberglass cloth(CF) , fire resistant white mylar(WM), 2mil aluminum foil(AF) and perforated fiberglass cloth with waffle backer.(PF).

ULTRA-GLAS products also offer a low toxicity and very low smoke and fire rating making it ideal for use aboard lightweight sail and power yachts.





THERMAL- ACOUSTIC CONTROL MATERIALS

DATA		UltraGlas nominal density 0.75 lbs/ft3 = 12 kg/m3									
Configuration		UG-PL Plain un-faced			UG-CF Navy cloth		UG-WM White mylar		UG-FF Foil face	UG-WB waffle	
Aerial Weight / Density	Thickness	12mm	25mm	50mm	12mm	25mm	12mm	25mm	12mm	12mm	
	lbs/ft2	0.03	0.06	0.13	0.13	0.16	0.14	0.17	0.13	0.12	
	Kg/m2	0.15	0.3	0.6	0.62	0.8	0.7	0.85	0.65	0.56	
Fungus Resistance: Does not support mold growth											
Vibration Resistance: Pass; no weight loss, sagging or salting after 100 hrs											
Odor: None							Thermal Conductivity @ 75 degF ; 0.28				
Compression Resistance		Original Thickness 1.04"					To compress to 40% Thickness		after 5		
							8.7 lbs/ft2		99%		
Fire / Smoke Data:		¼ Scale: Pass					Flame Spread:		Smoke		
							5		0		
Toxicity		CO: 10			CO2: 174		HCl: none		none	<.02%	

Acoustic Absorption ASTM - C -423

UltraGlas (UG) Fiberglass Hullboard (HB) 3M Thinsulate (3M6710) Polyimide Foam (PF)

