

# HYG Heat Resisting Rock Wool Products

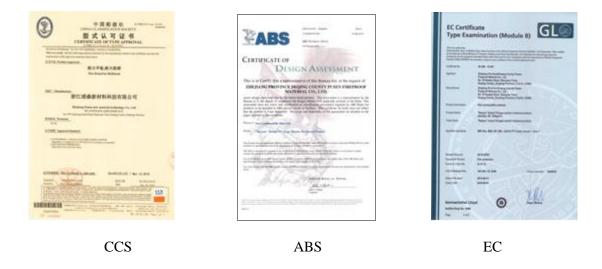
## 1. Product Introduction



#### Blocks

HYG Heat Resisting Rock Wool product is made from high quality basalts by melting, spinning into fibers and thermal curing processes. The main Ingredients are Al<sub>2</sub>O<sub>3</sub>, SiO<sub>2</sub>, Fe<sub>2</sub>O<sub>3</sub>, CaO, MgO etc. It can be coated with glass cloth or aluminum foil fiber cloth according to the requests of clients. It's mainly used as the insulating and fireproof materials at cabin inner surfaces, stiffeners (T steels and ball steels) etc.

HYG type Heat Resisting Rock Wool products have got the certifications of CCS, ABS and EC.





## 2. Technical Specifications

### Table 1 Technical Parameters

Items	Technical Requirements				
Incombustibility	Accord with IMO.2010FTPC Part1 requirement				
Asbestos test	Accord with Hong Kong International Covention for the Safe and Environmentally Sound Recycling of Ships 2009.				
Apparent Density / kg/m <sup>3</sup>	120				
Moisture Absorption Rate / %	≤ 5				
Fiber Diameter / um	≤ 7				
Residue Content / % ( $\Phi \ge 0.25 \text{ mm}$ )	≤ 12				
Thermal Conductivity / W/m·K	25 °C, 0.037~0.040				
Organic Compound Content / %	≤ 3				
Fire Separation Class	A60 class, accord with the requirements of IMO.2010FTPC Part3. Bulkhead: (40+40) mm, two-layer; 120 kg/m <sup>3</sup> ; Deck: 50 mm, one-layer; 120 kg/m <sup>3</sup>				

## 3. Product Specifications

Scope	Fire separation class	Class	Density/ kg/m <sup>3</sup>	Dimension / mm			Coatings	Fixation	Areal Density/
				Т	W	Т	00000080		kg/m <sup>2</sup>
					800	40+40			
Stool		DQ			700	two-layer;	Glass cloth or		
Steel Bulk head	A60	DQ-HYG/B-VII	120	600~ 1000	600	40 mm,	Aluminum	Stud pins	9.6
					500	one layer	foil glass	Stud pills	9.0
					According	on	cloth		
					to stiffener	stiffener;			

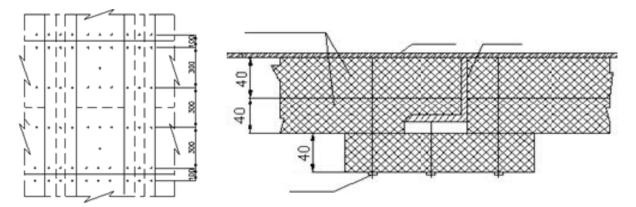
## Table 2 HYG Rock Wool Product Specifications



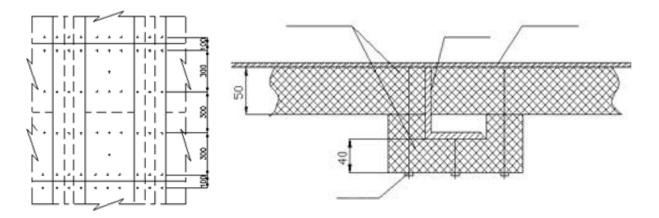
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Steel Deck	A60	DQ-HYG/D-VII	120	600~ 1000	800	50 mm one-layer; 40 mm for stiffener;	Glass cloth or Aluminum foil glass cloth	Stud pins	6
					700				
					600				
					500				
					According				
					to stiffener				

## 4. Structures



A60 Bulkhead ( DQ-HYG/B-VII ) typical Detail of HYG Rock Wool



A60 Deck ( DQ-HYG/D-VI ) typical Detail of HYG Rock Wool

## 5. Advantages

HYG Rock Wool has been used in civil ships as A60 class fire-proof material for more than 20 years. It has gotten the certifications of CCS, EC, LR, ABS, and NK. It's of high security, and economical. As A60 class material, it offers enough time to escape from emergencies.