

FIRE SAFETY MATRIX FOR FIBERSTRUCT MOULDED **GRP GRATINGS** wwww.fiberstruct.com



26mm





30mm



38x38mm 38mm



19x19mm 38mm/Micromesh



51x51mm 50mm



38x154mm 38mm

APPROVED OFFSHORE & MARINE APPLICATIONS

LOCATION	SERVICE	LEVEL	APPLICABLE FIBERSTRUCT GRATING	
		ACCORDING US COAST GUARD, DNV & ABS	ISO-FR ISO-XFR VE-FR VE-XFR MD-XFR, PH-XFR-B	PH-XFR-A
	Type Approval		DNV	USCG
Machinery Spaces	Walkways or areas which may be used for escape, or access for fire fighting, emergency operations or rescue	L1	NO	NO
	Personnel walkway, catwalks, ladders, platforms or access areas other than those described above	L3	NO	YES
Cargo Pump Rooms	All personnel walkways, catwalks, ladders, platforms or access areas	L1	NO	NO
Cargo Holds	Walkways or areas which may be used for escape, or access for fire fighting, emergency operations or rescue	L1	NO	NO
	Personnel walkway, catwalks, ladders, platforms or access areas other than those described above	NONE	ALL	YES
Cargo Tanks	All personnel walkways, catwalks, ladders, platforms or access areas	NONE	ALL	YES
Fuel Oil Tanks	All personnel walkways, catwalks, ladders, platforms or access areas	NONE	ALL	YES
	All personnel walkways, catwalks, ladders, platforms or access areas	NONE	ALL	YES
Cofferdams, void spaces, double bottoms, pipe tunnels, etc.	All personnel walkways, catwalks, ladders, platforms or access areas	NONE	ALL	YES
Accommodation, services, and control spaces	All personnel walkways, catwalks, ladders, platforms or access areas	L1	NO	NO
Lifeboat embarkation or temporary safe refuge stations in open deck areas	All personnel walkways, catwalks, ladders, platforms or access areas	L2	NO	YES
-	Walkways or areas which may be used for escape, or access for fire fighting, emergency operations or rescue	L3	NO	YES
	Personnel walkway, catwalks, ladders, platforms or access areas other than those described above	NONE	ALL	YES



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38x38mm 26mm

PH-XFR-A

heavy duty phenolic

(*) Due to extreme low smoke emissions & low toxic emissions

19x19mm 30mm/Micromesh

38x38mm 30mm 38x38mm 38mm 19x19mm 38mm/Micromesh 51x51mm 50mm 38x154mm 38mm

Gangway for safe access to bow on tankers according to IMO MSC.62(67)

L3

NO

YES

YES (*)

RECOMMENDED ONSHORE REFINERY & TUNNEL APPLICATIONS

LOCATION	SERVICE		LEVEL	AVAILABLE TYPES				
			LOCAL & NATIONAL REQUIRE- MENTS	FD/ISO-FR, VE-FR, ISO-XFR VE-XFR	MD-XFR, PH-XFR-A, PH-XFR-B			
Inside Machinery	Walkways or areas which may be use							
Spaces	escape, or access for fire fighting, em operations or rescue	iergency	MENTS	NO	YES			
	Personnel walkway, catwalks, ladders or access areas other than those descabove		LOCAL & NATIONAL REQUIREMENTS	ALL	ALL			
Tunnel and Underground areas	All personnel walkways, catwalks, lad platforms or access areas	NAL	NO	YES				
Open Plant areas	Walkways or areas which may be used for) <u>;</u>	NO	YES			
Open i iani areas	Personnel walkway, catwalks, ladders, platforms or access areas other than those described above		CAL & NA	ALL	ALL			
Cargo & Fuel Tank Parks	All personnel walkways, catwalks, ladders, platforms or access areas		07	ALL	ALL			
Resin	All Fibergrate resins selfexthuising	Flame-	Smoke Index	Toxic	Recommended for			
Characteristics	according ASTM-E84	spread		emissions	tunnels			
ISO-FR	isophtalic polyester	25	345	very low	NO			
VE-FR	vinylester	20	360	very low	NO			
ISO-XFR	isophtalic polyester special grade	15	920	very low	NO			
VE-XFR	vinylester	10	970	very low	NO			
ECO-FR	ortophtalic polyester	35	650	very low	YES (*)			
MD-XFR	modified acrilic	15	45	very low	YES (*)			
PH-XFR-B	standard phenolic	5	10	BS 476	YES (*)			

5

10

BS 476