

FIBERBOND® Series Descriptions

Offshore and Marine Services

Series	Description	Approvals
20HV	Series 20HV is a general purpose GRP piping product suitable for design pressures up to 200psig (14 bar) in sizes 2" - 12", 150psig (10 bar) in sizes 14" - 24" and design temperatures up to 150F (65c).	ABS No. 00 NO 32171-1, Lloyd's Register 97/60179
20HV-D	Series 20HV-D is a low pressure rating product specifically designed for open drains, deck drains, and other systems at 100psig (7 bar) or lower. Temperature rating is 150F (65c).	Same as 20HV
20HV-C	Series 20HV-C is identical to 20HV except that it has an electrically conductive exterior. Pressure and temperature ratings are the same.	Same as 20HV
20FR-E, 20FR16, 20FR20	Series 20FR-E, 20FR16 and 20FR20 are IMO A.753(18) L3 products. 20FR-E has the same pressure ratings as 20HV. 20FR16 is rated to 232 psig (16 bar) up to 24" and 150 psig (10 bar) up to 36". 20FR20 is rated to 290 psig (20 bar) up to 12" and 261 psig (18 bar) up to 18". Design temperatures up to 185F (85c). Typical applications include "wet" firewater ringmain piping designed in accordance with USCG Policy File Memorandum (PFM) 1-98. 20FR-E was formerly known as 20FW-FR-E.	ABS No. 00 NO 32171-X, USCG No. 164.141/2/0, Sizes 2" - 24" USCG No. 164.141/14/0, Sizes 2" - 24" (20FR20), USCG No. 164.141/22/0, Sizes 2" - 24" (20FR16)
20FR-EC 20FR16-C 20FR20-C	Series 20FR-EC is identical to 20FR-E except that it has an electrically conductive exterior. Pressure, temperature, and fire ratings are the same as 20FR-E. The same is true for 20FR16 / 20FR16-C and 20FR20 / 20FR20-C.	ABS 00 NO 32171-X, USCG No. 164.141/3/0, Sizes 2" - 24" USCG No. 164.141/15/0, Sizes 2" - 24" (20FR20-C), USCG No. 164.141/23/0, Sizes 2" - 24" (20FR16-C)
20HV(FDA)	Series 20HV(FDA) is identical to 20HV except that specific manufacturing and fabrication processes are followed according to 21 CFR 177.2420. When used in food / freshwater services, 20HV(FDA) should be specified. Pressure and temperature ratings are the same as 20HV.	Same as 20HV
20JF 20JF16	Series 20JF is a jet-fire rated product designed for the most severe fire endurance requirements. Series 20JF may be used when exposure to a jet-fire may occur. For USCG-approved "dry/wet" deluge systems, refer to PFM1-98. 20JF is rated for 200psig (14 bar) for sizes 2" - 10". 20JF16 is rated for 232psig (16 bar) for sizes 2" thru 24". Temperature rating is 185F (85c).	ABS No. 00 NO 32171-X, USCG No. 164.141/1/0 Sizes 2"-10" (20JF), USCG No. 164.141/33/0, Sizes 2" - 24" (20JF16)
20JF-C 20JF16-C	Series 20JF-C and 20JF16-C are identical to 20JF and 20JF16, respectively, except they have an electrically conductive exterior. Pressure, temperature, and fire ratings are the same.	ABS 00 NO 32171-X, USCG No. 164.141/4/0, Sizes 2" - 10" (20JF-C), USCG No. 164.141/34/0, Sizes 2" - 24" (20JF16-C)

Terminology:

20 - 20mil liner, reinforced; 110 - 110mil liner, reinforced; FR, FR-E - fire retardant; HV - heavy wall product; C - conductive (electrically); JF - jet fire rated