



ABF-P -Construction with protector panel-

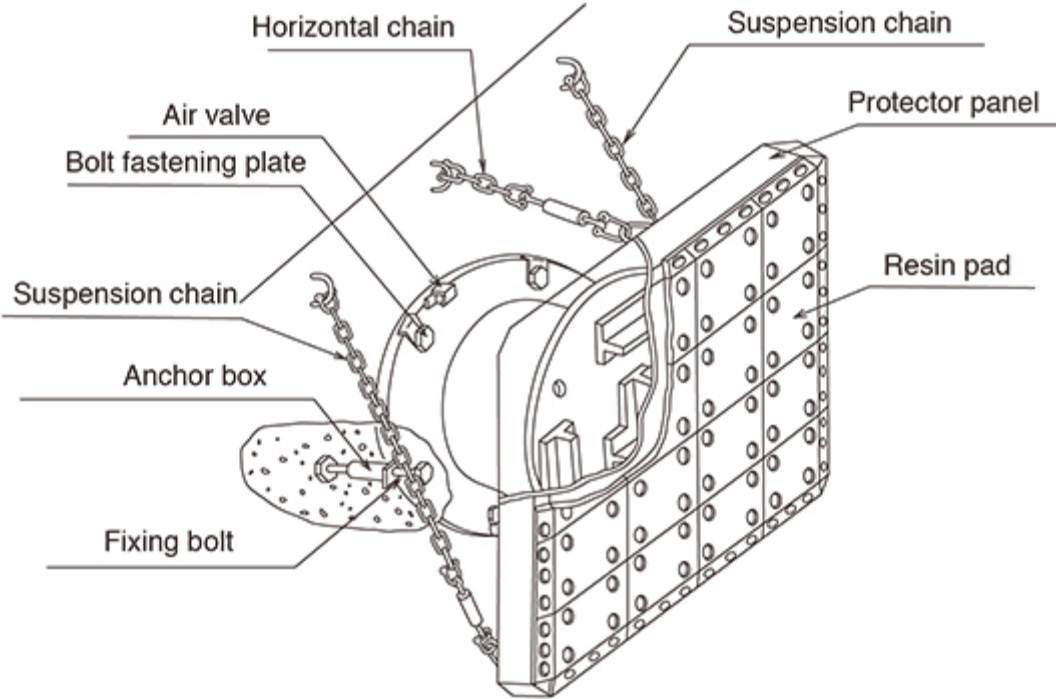


Fig. 1

3-1 3/4TYPE(H/D=3/4)

Nominal size (Height x Dia)	Deflec- tion	Energy Absorption (E) and Reaction Force (R)							
		(1) Po=0.8 kgf/cm ² (11.4 lbs/in ²)		(2) Po=1.0 kgf/cm ² (14.2 lbs/in ²)		(3) Po=1.2 kgf/cm ² (17.1 lbs/in ²)		(4) Po=1.4 kgf/cm ² (19.9 lbs/in ²)	
Milimeters (Feet-Inches)	%	E tf-m (ft-kips)	R tf (kips)	E tf-m (ft-kips)	R tf (kips)	E tf-m (ft-kips)	R tf (kips)	E tf-m (ft-kips)	R tf (kips)
450 ^H X600φ (1'-6" x2')	60	1.5 (10.8)	13.8 (30.4)	1.8 (13.0)	16.0 (35.3)	2.0 (14.5)	17.7 (39.0)	2.3 (16.6)	19.6 (43.2)
600x800 (2'x2'-7")	60	3.7 (26.8)	24.6 (54.2)	4.3 (31.1)	28.4 (62.6)	4.8 (34.7)	31.4 (69.2)	5.5 (39.8)	34.8 (76.7)
750x1000 (2'-6" x3'-4")	60	7.2 (52.1)	38.4 (84.7)	8.3 (60.0)	44.4 (97.9)	9.4 (68.0)	49.1 (108)	10.7 (77.4)	54.4 (120)
800x1070 (2'-7" x3'-6")	60	7.8 (56.4)	40.2 (88.6)	9.0 (65.1)	46.1 (102)	10.3 (74.5)	51.6 (114)	11.6 (83.9)	58.2 (128)
900x1200 (3'x4')	60	11.0 (79.6)	50.9 (112)	12.8 (92.6)	58.3 (129)	14.7 (106)	65.3 (144)	16.5 (119)	73.7 (163)
1000x1330 (3'-4" x4'-4")	60	15.1 (109)	62.8 (138)	17.6 (127)	72.0 (159)	20.2 (146)	80.6 (178)	22.7 (164)	91.0 (201)

1100x1470 (3'-7" x5')	60	20.2 (146)	76.0 (168)	23.4 (169)	87.1 (192)	26.9 (195)	97.5 (215)	30.2 (218)	110 (243)
1200x1600 (4'x5'-3")	60	26.2 (190)	90.4 (199)	30.4 (220)	104 (229)	34.9 (252)	116 (256)	39.2 (284)	131 (289)
1350x1800 (4'-5" x6')	60	37.3 (270)	114 (251)	43.4 (314)	131 (289)	49.7 (359)	147 (324)	55.9 (404)	156 (344)
1500x2000 (5'x7')	60	51.1 (370)	141 (311)	59.4 (430)	162 (357)	68.2 (493)	181 (399)	76.6 (554)	205 (452)
1800x2400 (6'x8')	60	88.3 (639)	203 (448)	103 (745)	233 (514)	118 (853)	261 (576)	132 (955)	295 (650)
2000x2670 (6'-8" x7')	60	121 (875)	251 (553)	141 (1020)	288 (635)	162 (1172)	322 (710)	182 (1316)	364 (803)
2100x2800 (7'x9'-3")	60	140 (1013)	277 (611)	163 (1179)	318 (701)	187 (1353)	355 (783)	210 (1519)	401 (884)
2250x3000 (7'-6" x10')	60	172 (1244)	318 (701)	200 (1447)	365 (805)	230 (1664)	408 (900)	259 (1873)	461 (1017)
2400x3200 (8" x10'-6")	60	209 (1512)	362 (798)	243 (1758)	415 (915)	279 (2018)	464 (1023)	314 (2271)	524 (1155)

NOTES:

- 1. Reaction force and energy absorption are measured under static condition.
- 2. Tolerances of reaction force and deflection at guaranteed energy absorption are as follows: •Reaction force:±10% •Deflection:±5%
- 3. Figures of nominal sizes in feet and inches are rounded off, do not use for dimensional purposes.
- 4. Po:Initial inner pressure

3-2 1/1TYPE(H/D=1/1)

Nominal size (Height x Dia)	Deflec- tion	Energy Absorption (E) and Reaction Force (R)							
		(1) Po=0.8 kgf/cm ² (11.4 lbs/in ²)		(2) Po=1.0 kgf/cm ² (14.2 lbs/in ²)		(3) Po=1.2 kgf/cm ² (17.1 lbs/in ²)		(4) Po=1.4 kgf/cm ² (19.9 lbs/in ²)	
Milimeters (Feet-Inches)	%	E tf-m (ft-kips)	R tf (kips)	E tf-m (ft-kips)	R tf (kips)	E tf-m (ft-kips)	R tf (kips)	E tf-m (ft-kips)	R tf (kips)
600 ^H X600 ^φ (2' x2')	65	2.2 (15.9)	15.0 (33.1)	2.6 (18.8)	16.9 (37.3)	2.9 (21.0)	19.1 (42.1)	3.3 (23.9)	2.18 (48.1)
800x800 (2'-7"x2'-7")	65	5.3 (38.3)	26.7 (58.9)	6.1 (44.1)	30.0 (66.2)	6.9 (49.9)	34.0 (75.0)	7.8 (56.4)	38.8 (85.6)
1000x1000 (3'-4"x3'-4")	65	10.3 (74.5)	41.7 (91.9)	11.9 (86.1)	46.9 (103)	13.5 (98.4)	53.1 (117)	15.2 (110)	60.6 (134)
1070x1070 (3'-6"x3'-6")	65	12.7 (91.9)	47.7 (105)	14.6 (106)	53.7 (118)	16.6 (120)	60.8 (134)	18.6 (135)	69.4 (153)
1200x1200 (4'x4')	65	17.9 (129)	60.0 (132)	20.6 (132)	67.5 (149)	23.4 (169)	76.5 (169)	26.3 (190)	87.3 (192)
1330x1330 (4'-4"x4'-4")	65	24.3 (176)	73.7 (163)	28.0 (203)	82.9 (183)	31.9 (231)	94.0 (207)	35.8 (259)	107 (236)

1470x1470 (5'x5')	65	32.9 (238)	90.0 (198)	37.9 (274)	101 (223)	43.0 (311)	115 (254)	48.3 (349)	131 (289)
1600x1600 (5'-3"x5'-3")	65	42.4 (307)	107 (236)	48.8 (353)	120 (265)	55.5 (401)	136 (300)	62.3 (451)	155 (342)
1800x1800 (6" x6')	65	60.3 (436)	135 (298)	69.5 (503)	152 (335)	79.0 (571)	172 (379)	88.8 (642)	196 (432)
2000x2000 (7'x7')	65	82.8 (599)	167 (368)	95.4 (690)	187 (412)	108 (781)	212 (467)	122 (882)	242 (534)
2400x2400 (8'x8')	65	143 (1034)	240 (529)	165 (1193)	270 (595)	187 (1353)	306 (675)	210 (1519)	349 (770)
2670x2670 (9'x9')	65	197 (1425)	297 (721)	227 (1642)	334 (736)	258 (1866)	379 (836)	290 (2098)	432 (953)
2800x2800 (9'-3"x9'-3")	65	227 (1642)	327 (721)	262 (1895)	367 (809)	297 (2148)	416 (917)	334 (2416)	475 (1047)
3000x3000 (10'x10')	65	279 (2018)	375 (827)	322 (2329)	422 (931)	366 (2647)	478 (1054)	411 (2973)	546 (1204)
3200x3200 (10'-6" x10'-6")	65	339 (2452)	427 (942)	391 (2828)	480 (1058)	444 (3211)	544 (1200)	499 (3609)	621 (1369)

NOTES:

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