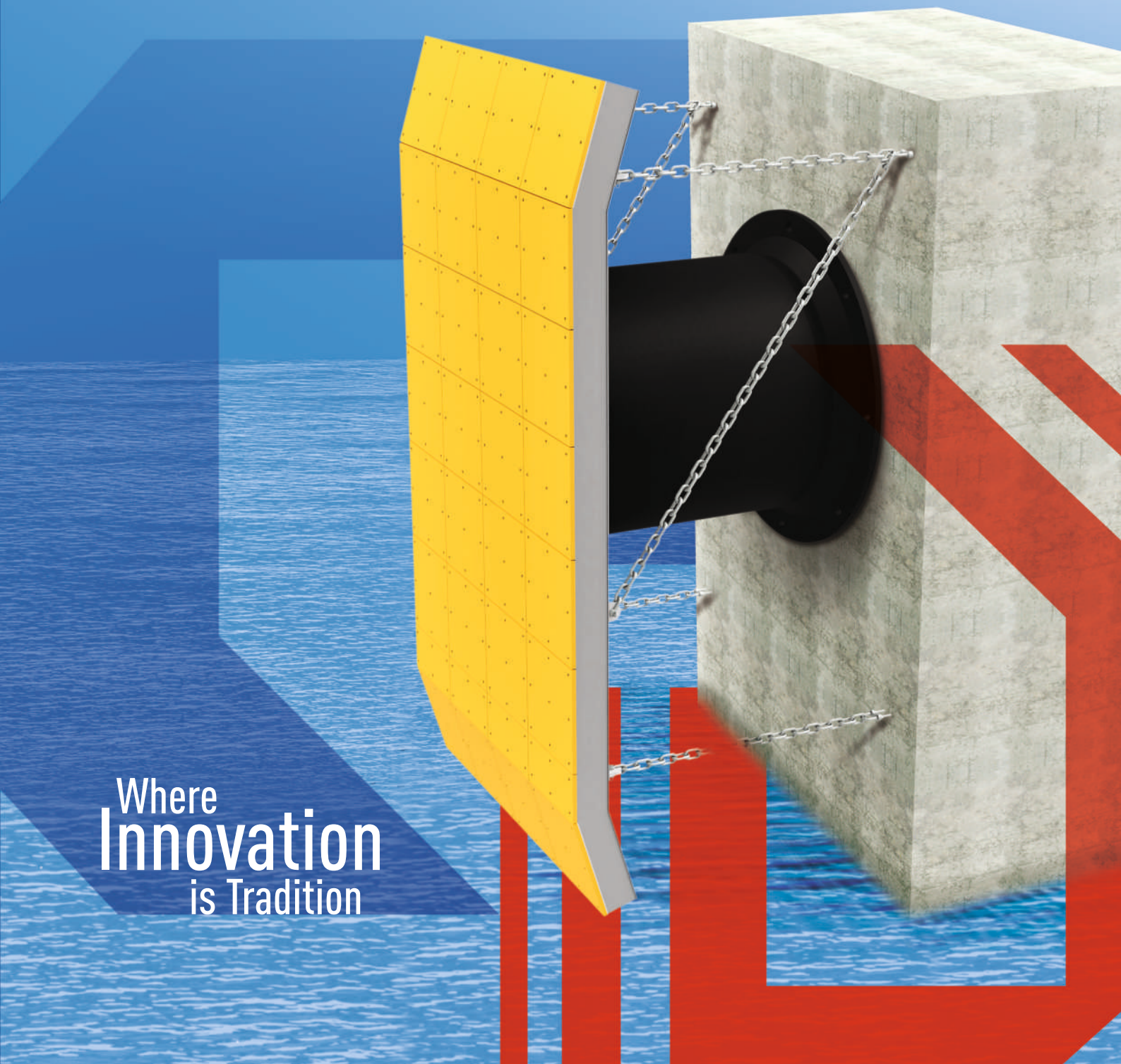
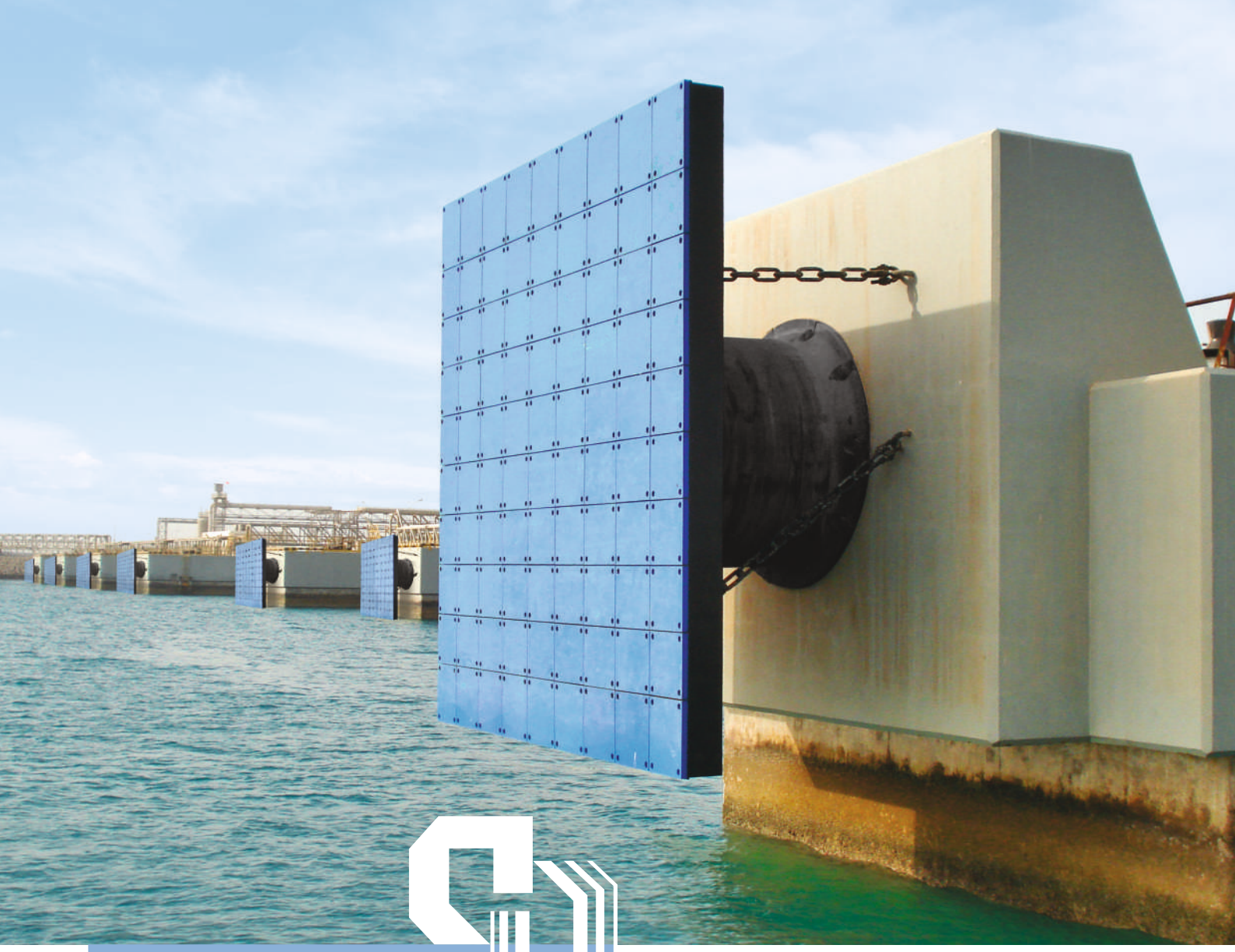
HI-TECH ELASTOMERS LTD.

High-Performance Fenders

CELL FENDERS (HCF)



Where
Innovation
is Tradition



CELL FENDERS (HCF)

HCF Cell Fenders were developed originally to take impacts of large ships. It has an impeccable track record for decades. Cell Fenders are known for their simplicity, assured performance and challenging berthing conditions.

Cell Fenders shape is capable of equipping itself with large fender panels thus reducing the contact pressure on the ships hulls whilst not compromising in energy absorption.

FEATURES

- High Performance
- Can Support Large Panels
- Strong, Well-proven Design
- Ideal for Low Hull Pressure Systems

APPLICATIONS

- Oil and LNG Facilities
- Bulk Terminals
- Offshore Platforms
- Container Berths
- RoRo and Cruise Terminals
- Multi-user Berths

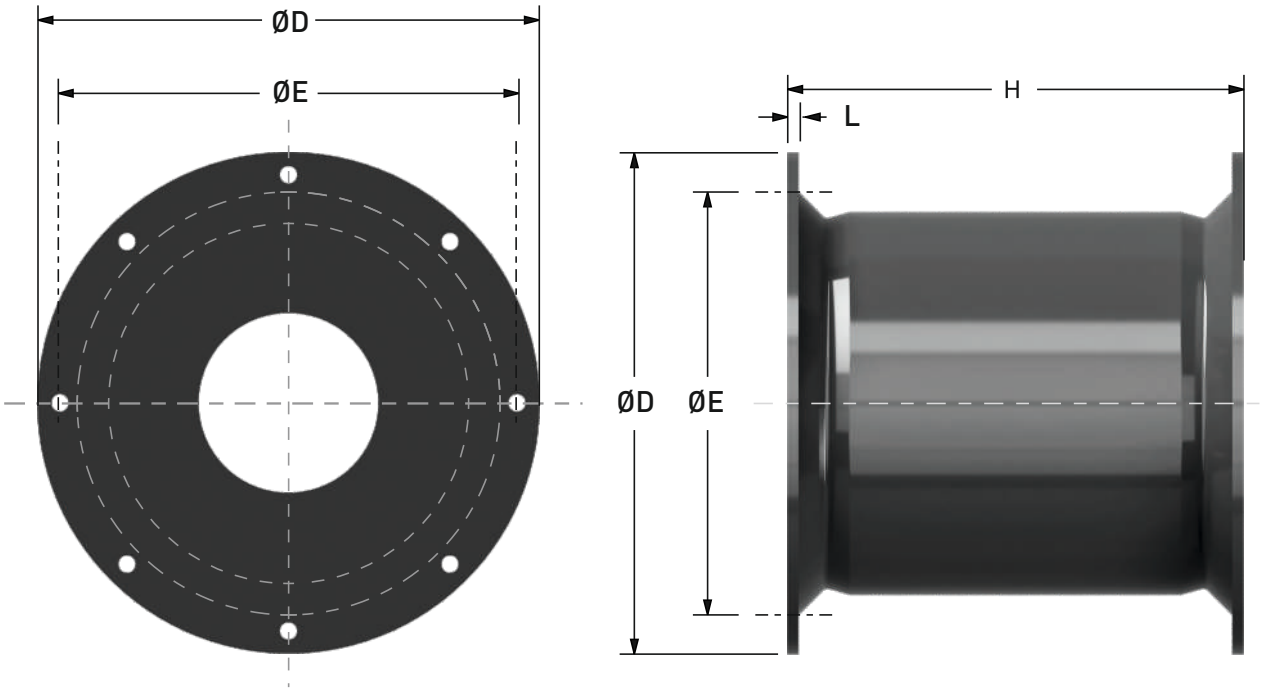
CELL FENDERS (HCF)

DIMENSIONS

	H	ØD	ØE	L	Anchors / Head bolts ^	Weight
HCF 400	400	650	550	24 – 32	4 × M20	75
HCF 500	500	650	550	24 – 32	4 × M24	95
HCF 630	630	840	700	24 – 32	4 × M27	220
HCF 800	800	1050	900	30 – 40	6 × M30	400
HCF 1000	1000	1300	1100	33 – 43	6 × M36	790
HCF 1150	1150	1500	1300	38 – 48	6 × M42	1200
HCF 1250	1250	1650	1450	38 – 48	6 × M42	1500
HCF 1450	1450	1850	1650	43 – 53	6 × M48	2300
HCF 1600	1600	2000	1800	45 – 55	8 × M48	3000
HCF 1700	1700	2100	1900	52 – 62	8 × M56	3700
HCF 2000	2000	2200	2000	50 – 65	8 × M64	5000
HCF 2250	2250	2550	2300	55 – 70	10 × M64	7400
HCF 2500	2500	2950	2700	65 – 80	10 × M64	10700
HCF 3000	3000	3350	3150	70 – 90	12 × M76	18500

^ Fender anchors / head bolts indicated are based on fenders RDP performance using a particular grade of steel. Please contact Hi-Tech office for precise size, material and type for different grades of fenders pertaining to the project requirements.

[Units: mm, kg]



CELL FENDERS (HCF)

PERFORMANCE DATA*

			F 0.9^	F 1.0^	F 1.1^	F 1.2^	F 1.3^	F 1.4^	F 1.5^	F 1.6^	F 1.7^	F 1.8^	F 1.9^	F 2.0^
400	CV	E	9.0	10.0	10.6	11.2	11.8	12.4	13.0	13.6	14.2	14.8	15.4	16.0
		R	50.0	56.0	59.6	63.2	66.8	70.4	74.0	77.4	80.8	84.2	87.6	91.0
	RPD	E_R	10.5	11.7	12.4	13.1	13.8	14.5	15.2	15.9	16.6	17.3	18.0	18.7
		R_R	58.5	65.5	69.7	73.9	78.2	82.4	86.6	90.6	94.5	98.5	102.5	106.5
500	CV	E	17.0	19.0	20.2	21.4	22.6	23.8	25.0	26.0	27.0	28.0	29.0	30.0
		R	79.0	87.0	92.6	98.2	103.8	109.4	115.0	120.4	125.8	131.2	136.6	142.0
	RPD	E_R	19.6	21.9	23.2	24.6	26.0	27.4	28.8	29.9	31.1	32.2	33.4	34.5
		R_R	90.9	100.1	106.5	112.9	119.4	125.8	132.3	138.5	144.7	150.9	157.1	163.3
630	CV	E	34.0	38.0	40.4	42.8	45.2	47.6	50.0	52.4	54.8	57.2	59.6	62.0
		R	124.0	137.0	145.6	154.2	162.8	171.4	180.0	188.8	197.6	206.4	215.2	224.0
	RPD	E_R	38.8	43.3	46.1	48.8	51.5	54.3	57.0	59.7	62.5	65.2	67.9	70.7
		R_R	141.4	156.2	166.0	175.8	185.6	195.4	205.2	215.2	225.3	235.3	245.3	255.4
800	CV	E	67.0	75.0	80.0	85.0	90.0	95.0	100.0	104.8	109.6	114.4	119.2	124.0
		R	190.0	211.0	225.4	239.8	254.2	268.6	283.0	297.4	311.8	326.2	340.6	355.0
	RPD	E_R	76.0	85.1	90.8	96.5	102.2	107.8	113.5	118.9	124.4	129.8	135.3	140.7
		R_R	215.7	239.5	255.8	272.2	288.5	304.9	321.2	337.5	353.9	370.2	386.6	402.9
1000	CV	E	138.0	153.0	162.6	172.2	181.8	191.4	201.0	210.6	220.2	229.8	239.4	249.0
		R	314.0	349.0	370.8	392.6	414.4	436.2	458.0	480.0	502.0	524.0	546.0	568.0
	RPD	E_R	154.6	171.4	182.1	192.9	203.6	214.4	225.1	235.9	246.6	257.4	268.1	278.9
		R_R	351.7	390.9	415.3	439.7	464.1	488.5	513.0	537.6	562.2	586.9	611.5	636.2
1150	CV	E	210.0	233.0	247.6	262.2	276.8	291.4	306.0	320.6	335.2	349.8	364.4	379.0
		R	416.0	462.0	490.8	519.6	548.4	577.2	606.0	634.8	663.6	692.4	721.2	750.0
	RPD	E_R	232.1	257.5	273.6	289.7	305.9	322.0	338.1	354.3	370.4	386.5	402.7	418.8
		R_R	459.7	510.5	542.3	574.2	606.0	637.8	669.6	701.5	733.3	765.1	796.9	828.8
1250	CV	E	269.0	299.0	317.8	336.6	355.4	374.2	393.0	411.6	430.2	448.8	467.4	486.0
		R	491.0	545.0	579.2	613.4	647.6	681.8	716.0	750.2	784.4	818.6	852.8	887.0
	RPD	E_R	295.9	328.9	349.6	370.3	390.9	411.6	432.3	452.8	473.2	493.7	514.1	534.6
		R_R	540.1	599.5	637.1	674.7	712.4	750.0	787.6	825.2	862.8	900.5	938.1	975.7
1450	CV	E	421.0	468.0	497.2	526.4	555.6	584.8	614.0	643.2	672.4	701.6	730.8	760.0
		R	661.0	734.0	781.0	828.0	875.0	922.0	969.0	1013.8	1058.6	1103.4	1148.2	1193.0
	RPD	E_R	458.9	510.1	541.9	573.8	605.6	637.4	669.3	701.1	732.9	764.7	796.6	828.4
		R_R	720.5	800.1	851.3	902.5	953.8	1005.0	1056.2	1105.0	1153.9	1202.7	1251.5	1300.4
1600	CV	E	566.0	629.0	668.2	707.4	746.6	785.8	825.0	864.2	903.4	942.6	981.8	1021.0
		R	805.0	894.0	950.0	1006.0	1062.0	1118.0	1174.0	1229.8	1285.6	1341.4	1397.2	1453.0
	RPD	E_R	616.9	685.6	728.3	771.1	813.8	856.5	899.3	942.0	984.7	1027.4	1070.2	1112.9
		R_R	877.5	974.5	1035.5	1096.5	1157.6	1218.6	1279.7	1340.5	1401.3	1462.1	1522.9	1583.8

* for explanation of CV and RPD, please refer to note on page S2-B-06.

[units: kNm, kN]

CELL FENDERS (HCF)

PERFORMANCE DATA*

			F 2.1^	F 2.2^	F 2.3^	F 2.4^	F 2.5^	F 2.6^	F 2.7^	F 2.8^	F 2.9^	F 3.0^	F 3.1^
400	CV	E	16.4	16.8	17.2	17.6	18.0	18.6	19.2	19.8	20.4	21.0	23.0
		R	93.6	96.2	98.8	101.4	104.0	106.8	109.6	112.4	115.2	118.0	129.0
	RPD	E_R	19.2	19.7	20.1	20.6	21.1	21.8	22.5	23.2	23.9	24.6	26.9
		R_R	109.5	112.6	115.6	118.6	121.7	125.0	128.2	131.5	134.8	138.1	150.9
500	CV	E	31.0	32.0	33.0	34.0	35.0	35.8	36.6	37.4	38.2	39.0	43.0
		R	146.2	150.4	154.6	158.8	163.0	167.2	171.4	175.6	179.8	184.0	203.0
	RPD	E_R	35.7	36.8	38.0	39.1	40.3	41.2	42.1	43.0	43.9	44.9	49.5
		R_R	168.1	173.0	177.8	182.6	187.5	192.3	197.1	201.9	206.8	211.6	233.5
630	CV	E	63.8	65.6	67.4	69.2	71.0	72.8	74.6	76.4	78.2	80.0	88.0
		R	230.6	237.2	243.8	250.4	257.0	263.6	270.2	276.8	283.4	290.0	319.0
	RPD	E_R	72.7	74.8	76.8	78.9	80.9	83.0	85.0	87.1	89.1	91.2	100.3
		R_R	262.9	270.4	277.9	285.5	293.0	300.5	308.0	315.6	323.1	330.6	363.7
800	CV	E	128.0	132.0	136.0	140.0	144.0	147.8	151.6	155.4	159.2	163.0	179.0
		R	365.8	376.6	387.4	398.2	409.0	420.0	431.0	442.0	453.0	464.0	510.0
	RPD	E_R	145.3	149.8	154.4	158.9	163.4	167.8	172.1	176.4	180.7	185.0	203.2
		R_R	415.2	427.4	439.7	452.0	464.2	476.7	489.2	501.7	514.2	526.6	578.9
1000	CV	E	256.4	263.8	271.2	278.6	286.0	293.6	301.2	308.8	316.4	324.0	356.0
		R	585.0	602.0	619.0	636.0	653.0	669.8	686.6	703.4	720.2	737.0	811.0
	RPD	E_R	287.2	295.5	303.7	312.0	320.3	328.8	337.3	345.9	354.4	362.9	398.7
		R_R	655.2	674.2	693.3	712.3	731.4	750.2	769.0	787.8	806.6	825.4	908.3
1150	CV	E	390.4	401.8	413.2	424.6	436.0	447.2	458.4	469.6	480.8	492.0	541.0
		R	772.6	795.2	817.8	840.4	863.0	885.6	908.2	930.8	953.4	976.0	1073.0
	RPD	E_R	431.4	444.0	456.6	469.2	481.8	494.2	506.5	518.9	531.3	543.7	597.8
		R_R	853.7	878.7	903.7	928.6	953.6	978.6	1003.6	1028.5	1053.5	1078.5	1185.7
1250	CV	E	500.6	515.2	529.8	544.4	559.0	573.8	588.6	603.4	618.2	633.0	696.0
		R	913.6	940.2	966.8	993.4	1020.0	1046.6	1073.2	1099.8	1126.4	1153.0	1269.0
	RPD	E_R	550.7	566.7	582.8	598.8	614.9	631.2	647.5	663.7	680.0	696.3	765.6
		R_R	1005.0	1034.2	1063.5	1092.7	1122.0	1151.3	1180.5	1209.8	1239.0	1268.3	1395.9
1450	CV	E	782.8	805.6	828.4	851.2	874.0	896.8	919.6	942.4	965.2	988.0	1086.0
		R	1228.8	1264.6	1300.4	1336.2	1372.0	1407.8	1443.6	1479.4	1515.2	1551.0	1707.0
	RPD	E_R	853.3	878.1	903.0	927.8	952.7	977.5	1002.4	1027.2	1052.1	1076.9	1183.7
		R_R	1339.4	1378.4	1417.4	1456.5	1495.5	1534.5	1573.5	1612.5	1651.6	1690.6	1860.6
1600	CV	E	1051.6	1082.2	1112.8	1143.4	1174.0	1204.6	1235.2	1265.8	1296.4	1327.0	1460.0
		R	1496.6	1540.2	1583.8	1627.4	1671.0	1714.6	1758.2	1801.8	1845.4	1889.0	2078.0
	RPD	E_R	1146.2	1179.6	1213.0	1246.3	1279.7	1313.0	1346.4	1379.7	1413.1	1446.4	1591.4
		R_R	1631.3	1678.8	1726.3	1773.9	1821.4	1868.9	1916.4	1964.0	2011.5	2059.0	2265.0

* for explanation of CV and RPD, please refer to note on page S2-B-06.

[units: kNm, kN]

CELL FENDERS (HCF)

PERFORMANCE DATA*

			F 0.9^	F 1.0^	F 1.1^	F 1.2^	F 1.3^	F 1.4^	F 1.5^	F 1.6^	F 1.7^	F 1.8^	F 1.9^	F 2.0^
1700	CV	E	678.0	753.0	800.2	847.4	894.6	941.8	989.0	1036.2	1083.4	1130.6	1177.8	1225.0
		R	908.0	1009.0	1072.2	1135.4	1198.6	1261.8	1325.0	1388.2	1451.4	1514.6	1577.8	1641.0
	RPD	E_R	739.0	820.8	872.2	923.7	975.1	1026.6	1078.0	1129.5	1180.9	1232.4	1283.8	1335.3
		R_R	989.7	1099.8	1168.7	1237.6	1306.5	1375.4	1444.3	1513.1	1582.0	1650.9	1719.8	1788.7
2000	CV	E	1104.0	1227.0	1303.6	1380.2	1456.8	1533.4	1610.0	1686.8	1763.6	1840.4	1917.2	1994.0
		R	1258.0	1397.0	1484.2	1571.4	1658.6	1745.8	1833.0	1920.0	2007.0	2094.0	2181.0	2268.0
	RPD	E_R	1186.8	1319.0	1401.4	1483.7	1566.1	1648.4	1730.8	1813.3	1895.9	1978.4	2061.0	2143.6
		R_R	1352.4	1501.8	1595.5	1689.3	1783.0	1876.7	1970.5	2064.0	2157.5	2251.1	2344.6	2438.1
2250	CV	E	1854.0	2060.0	2169.2	2278.4	2387.6	2496.8	2606.0	2715.0	2824.0	2933.0	3042.0	3151.0
		R	1876.0	2085.0	2195.4	2305.8	2416.2	2526.6	2637.0	2747.4	2857.8	2968.2	3078.6	3189.0
	RPD	E_R	1983.8	2204.2	2321.0	2437.9	2554.7	2671.6	2788.4	2905.1	3021.7	3138.3	3254.9	3371.6
		R_R	2007.3	2231.0	2349.1	2467.2	2585.3	2703.5	2821.6	2939.7	3057.8	3176.0	3294.1	3412.2
2500	CV	E	2544.0	2826.0	2975.8	3125.6	3275.4	3425.2	3575.0	3724.6	3874.2	4023.8	4173.4	4323.0
		R	2317.0	2574.0	2710.4	2846.8	2983.2	3119.6	3256.0	3392.2	3528.4	3664.6	3800.8	3937.0
	RPD	E_R	2696.6	2995.6	3154.3	3313.1	3471.9	3630.7	3789.5	3948.1	4106.7	4265.2	4423.8	4582.4
		R_R	2456.0	2728.4	2873.0	3017.6	3162.2	3306.8	3451.4	3595.7	3740.1	3884.5	4028.8	4173.2
3000	CV	E	3795.0	4217.0	4452.4	4687.8	4923.2	5158.6	5394.0	5629.4	5864.8	6100.2	6335.6	6571.0
		R	3310.0	3678.0	3879.0	4080.0	4281.0	4482.0	4683.0	4884.0	5085.0	5286.0	5487.0	5688.0
	RPD	E_R	3984.8	4427.9	4675.0	4922.2	5169.4	5416.5	5663.7	5910.9	6158.0	6405.2	6652.4	6899.6
		R_R	3475.5	3861.9	4073.0	4284.0	4495.1	4706.1	4917.2	5128.2	5339.3	5550.3	5761.4	5972.4

[units: kNm, kN]

Note:

1. CV: performance data at slow speed constant velocity (2-8 cm/min) compression at 23 ±5°C temperature and 0° compression angle.
2. RPD: rated performance data, in accordance with PIANC with initial high speed berthing velocity 0.15 m/s.
   RPD = CV (performance) x VF (velocity factor for Natural and synthetic rubber blend) x TF (temperature factor) x AF (angle factor). RPD is reported at 23 ±5°C temperature and 0° compression angle, therefore TF = 1, AF = 1.
3. For other initial berthing velocities, temperature and berthing angle, VF/ TF/ AF should be calculated separately and apply on CV performance to come to the final performance.
4. If fenders are tested in decreasing velocity (DV) mode at initial velocity 0.15 m/s, 0° compression angle and 23 ±5°C testing temperature, RPD = DV (performance).
5. Fender performance is subject to ±10% manufacturing tolerance (+10% for reaction force and -10% for energy).
6. CV performance is based on a rubber compound blend of natural and synthetic rubber.

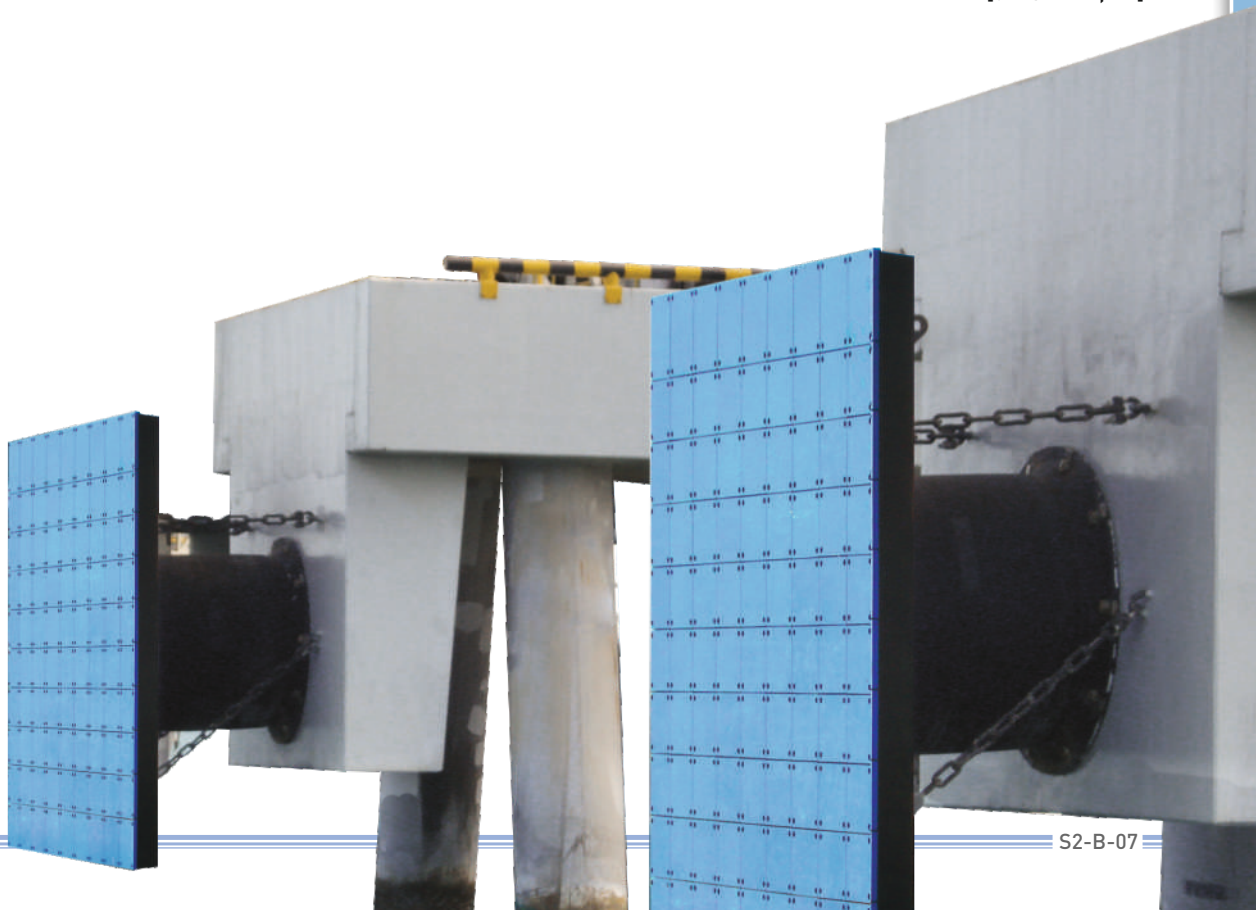
HI-TECH ELASTOMERS LTD.
WHERE INNOVATION IS A TRADITION

CELL FENDERS (HCF)

PERFORMANCE DATA*

			F 2.1^	F 2.2^	F 2.3^	F 2.4^	F 2.5^	F 2.6^	F 2.7^	F 2.8^	F 2.9^	F 3.0^	F 3.1^
1700	CV	E	1261.6	1298.2	1334.8	1371.4	1408.0	1444.8	1481.6	1518.4	1555.2	1592.0	1751.0
		R	1690.0	1739.0	1788.0	1837.0	1886.0	1935.2	1984.4	2033.6	2082.8	2132.0	2345.0
	RPD	E_R	1375.1	1415.0	1454.9	1494.8	1534.7	1574.8	1614.9	1655.1	1695.2	1735.3	1908.6
		R_R	1842.1	1895.5	1948.9	2002.3	2055.7	2109.4	2163.0	2216.6	2270.3	2323.9	2556.1
2000	CV	E	2053.8	2113.6	2173.4	2233.2	2293.0	2352.8	2412.6	2472.4	2532.2	2592.0	2851.0
		R	2335.4	2402.8	2470.2	2537.6	2605.0	2672.4	2739.8	2807.2	2874.6	2942.0	3236.0
	RPD	E_R	2207.8	2272.1	2336.4	2400.7	2465.0	2529.3	2593.5	2657.8	2722.1	2786.4	3064.8
		R_R	2510.6	2583.0	2655.5	2727.9	2800.4	2872.8	2945.3	3017.7	3090.2	3162.7	3478.7
2250	CV	E	3245.6	3340.2	3434.8	3529.4	3624.0	3718.4	3812.8	3907.2	4001.6	4096.0	4506.0
		R	3284.8	3380.6	3476.4	3572.2	3668.0	3763.6	3859.2	3954.8	4050.4	4146.0	4561.0
	RPD	E_R	3472.8	3574.0	3675.2	3776.5	3877.7	3978.7	4079.7	4180.7	4281.7	4382.7	4821.4
		R_R	3514.7	3617.2	3719.7	3822.3	3924.8	4027.1	4129.3	4231.6	4333.9	4436.2	4880.3
2500	CV	E	4452.6	4582.2	4711.8	4841.4	4971.0	5100.6	5230.2	5359.8	5489.4	5619.0	6181.0
		R	4055.2	4173.4	4291.6	4409.8	4528.0	4646.2	4764.4	4882.6	5000.8	5119.0	5631.0
	RPD	E_R	4719.8	4857.1	4994.5	5131.9	5269.3	5406.6	5544.0	5681.4	5818.8	5956.1	6551.9
		R_R	4298.5	4423.8	4549.1	4674.4	4799.7	4925.0	5050.3	5175.6	5300.8	5426.1	5968.9
3000	CV	E	6761.8	6952.6	7143.4	7334.2	7525.0	7715.8	7906.6	8097.4	8288.2	8479.0	9327.0
		R	5855.6	6023.2	6190.8	6358.4	6526.0	6693.4	6860.8	7028.2	7195.6	7363.0	8099.0
	RPD	E_R	7099.9	7300.2	7500.6	7700.9	7901.3	8101.6	8301.9	8502.3	8702.6	8903.0	9793.4
		R_R	6148.4	6324.4	6500.3	6676.3	6852.3	7028.1	7203.8	7379.6	7555.4	7731.2	8504.0

[units: kNm, kN]

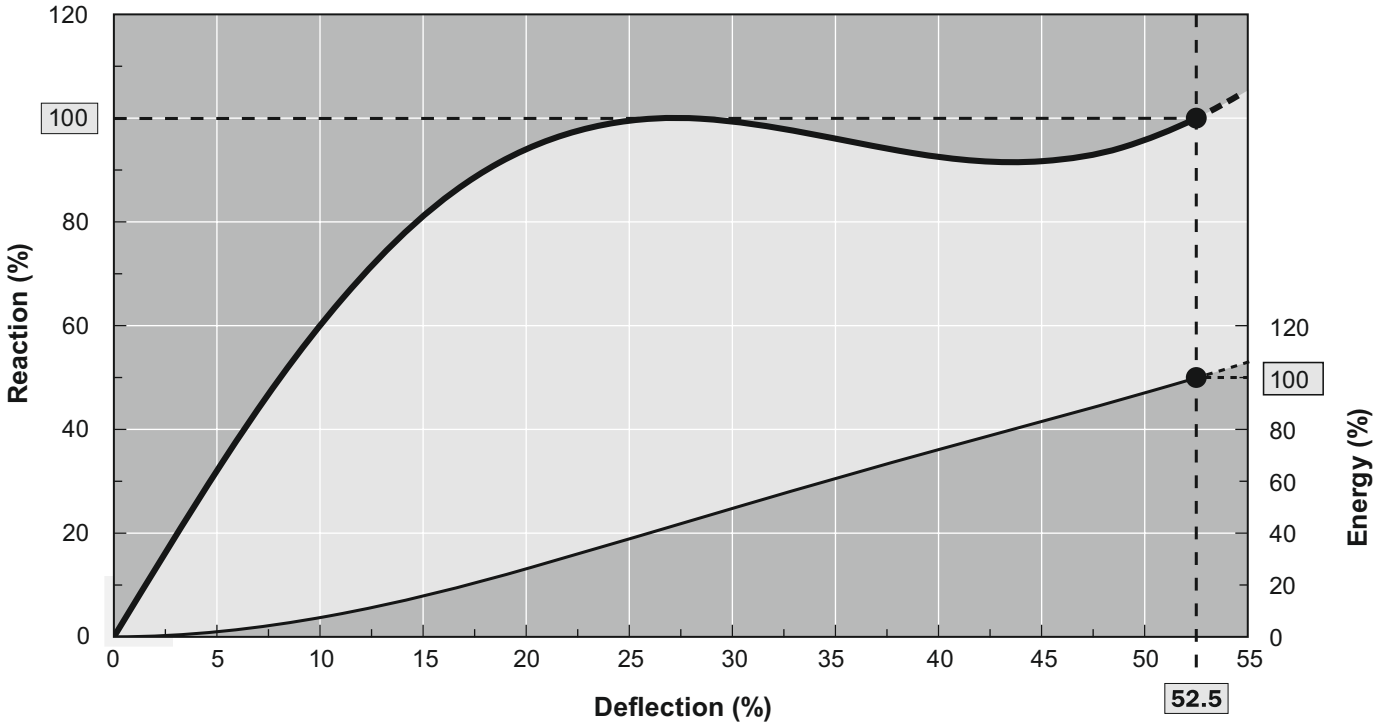


CELL FENDERS (HCF)

PERFORMANCE DATA*

D_i (%)	0	5	10	15	20	25	30	35	40	45	50	**52.5**	55
E_i (%)	0	2	7	16	26	38	50	61	72	83	94	**100**	106
R_i (%)	0	32	60	81	94	99	99	96	92	92	96	**100**	106

Nominal rated deflection may vary at RPD. refer to the Performance Tolerances table in the fender Application design Manual.



Generic curve shown. Actual curve geometry may vary depending on grade, temperature, velocity and angle.

ANGLE FACTOR (AF) TABLE

ANGLE (°)	ENERGY FACTOR	REACTION FACTOR
0	**1.000**	**1.000**
3	**0.977**	**1.000**
5	**0.951**	**1.000**
8	**0.909**	**1.000**
10	**0.883**	**1.000**
15	**0.810**	**1.000**
20	**0.652**	**1.000**

CELL FENDERS (HCF)

VELOCITY FACTOR (VF) TABLE

COMPRESSION TIME (SECONDS)	BLEND OF NATURAL AND SYNTHETIC RUBBER (CATALOG COMPOUND)	100% NATURAL RUBBER	100% SYNTHETIC RUBBER (SBR)
	VF	VF	VF
1	1.20	1.14	1.31
2	1.16	1.10	1.25
3	1.14	1.09	1.22
4	1.13	1.07	1.20
5	1.11	1.06	1.19
6	1.10	1.06	1.17
7	1.09	1.05	1.16
8	1.09	1.04	1.15
9	1.08	1.04	1.14
10	1.07	1.03	1.14
11	1.07	1.03	1.13
12	1.06	1.02	1.12
13	1.06	1.02	1.12
14	1.05	1.02	1.11
15	1.05	1.01	1.11
16	1.05	1.01	1.10
17	1.04	1.01	1.10
18	1.04	1.01	1.09
19	1.04	1.00	1.09
20	1.03	1.00	1.08

Compression time needs to be calculated using the following formula: $t = d/(f*V_d)$

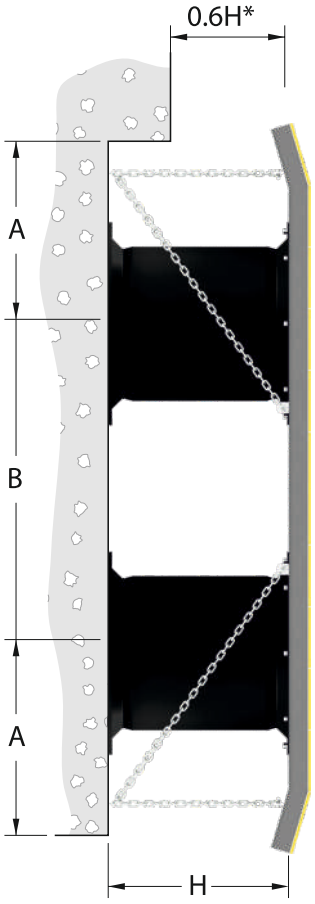
where:
t = compression time (seconds)*
d = rated deflection (mm)
V_d = initial berthing velocity (mm/s)
f = 0.74 deceleration factor (Peak reaction force occurs at between 30% - 40% deflection, where there has been a deceleration due to energy absorption. f represents the factor associated with deceleration.)
* Applicable for both partial deflection and rated deflection.

TEMPERATURE FACTOR (TF) TABLE

TEMPERATURE (°C)	BLEND OF NATURAL AND SYNTHETIC RUBBER (CATALOG COMPOUND)	100% NATURAL RUBBER	100% SYNTHETIC RUBBER (SBR)
	TF	TF	TF
+50	0.916	0.914	0.918
+40	0.947	0.946	0.948
+30	0.978	0.978	0.979
+23	1.000	1.000	1.000
+10	1.030	1.025	1.038
+0	1.075	1.053	1.108
-10	1.130	1.080	1.206
-20	1.249	1.142	1.410
-30	1.540	1.315	1.877

CELL FENDERS (HCF)

CLEARANCES



*does not allow for bow flares

There must be enough space around and between the cell fenders and the steel panel to allow them to deflect without interference.

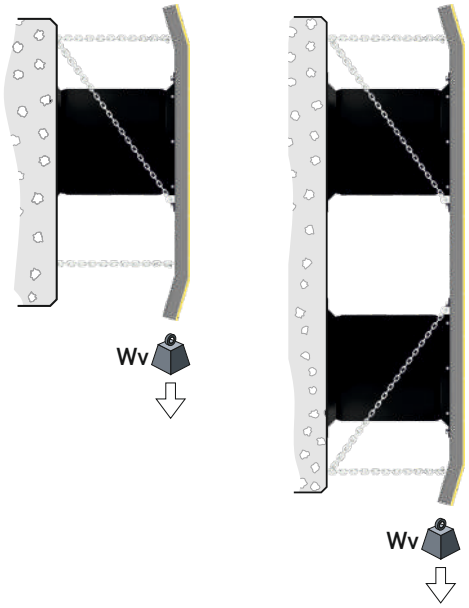
Distances given in the above diagram are for guidance. If in doubt, please ask.

HCF (H)	EDGE (A)	CENTRES (B)
400	480	700
500	510	700
630	600	880
800	700	1120
1000	850	1500
1150	990	1730
1250	1060	1870
1450	1200	2180
1600	1270	2400
1700	1470	2550
2000	1560	2880
2250	1710	3360
2500	1910	3730
3000	2240	4500

[units: mm]

WEIGHT SUPPORT

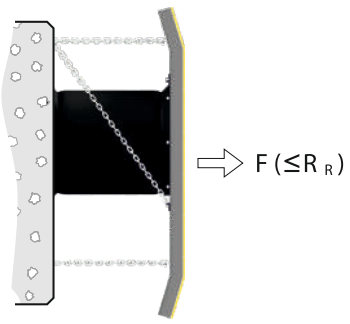
Cell fenders can support a lot of static weight. The table is a guide to the permitted weight of front panel before additional support chains may be required.



HNC	SINGLE OR MULTIPLE HORIZONTAL (N ≥ 1)	MULTIPLE VERTICAL (N ≥ 2)	H
E1	$W_H \leq n \times 1.0 \times W$	$W_V \leq n \times 1.25 \times W$	
E2	$W_H \leq n \times 1.3 \times W$	$W_V \leq n \times 1.75 \times W$	≤ 800
E3	$W_H \leq n \times 1.5 \times W$	$W_V \leq n \times 2.25 \times W$	
E1	$W_H \leq n \times 11 \times W\ 0.6$	$W_V \leq n \times 13.75 \times W\ 0.6$	
E2	$W_H \leq n \times 19 \times W\ 0.6$	$W_V \leq n \times 23.75 \times W\ 0.6$	≥ 1000
E3	$W_H \leq n \times 25 \times W\ 0.6$	$W_V \leq n \times 31.25 \times W\ 0.6$	

n = number of cell fenders.
W = HCF weight
W_H = panel weight (single or multi-horizontal)
W_V = panel weight (single or multi-vertical)

Interpolate for other grades



If the tensile load exceeds the rated reaction then tension chains may be required. Please ask for advice on the design of tension chains.

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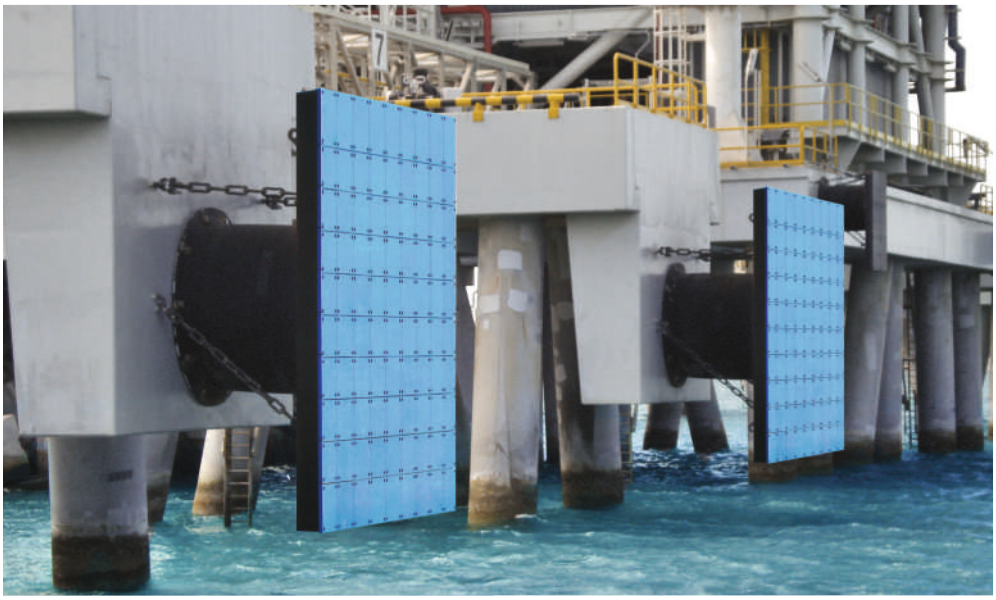
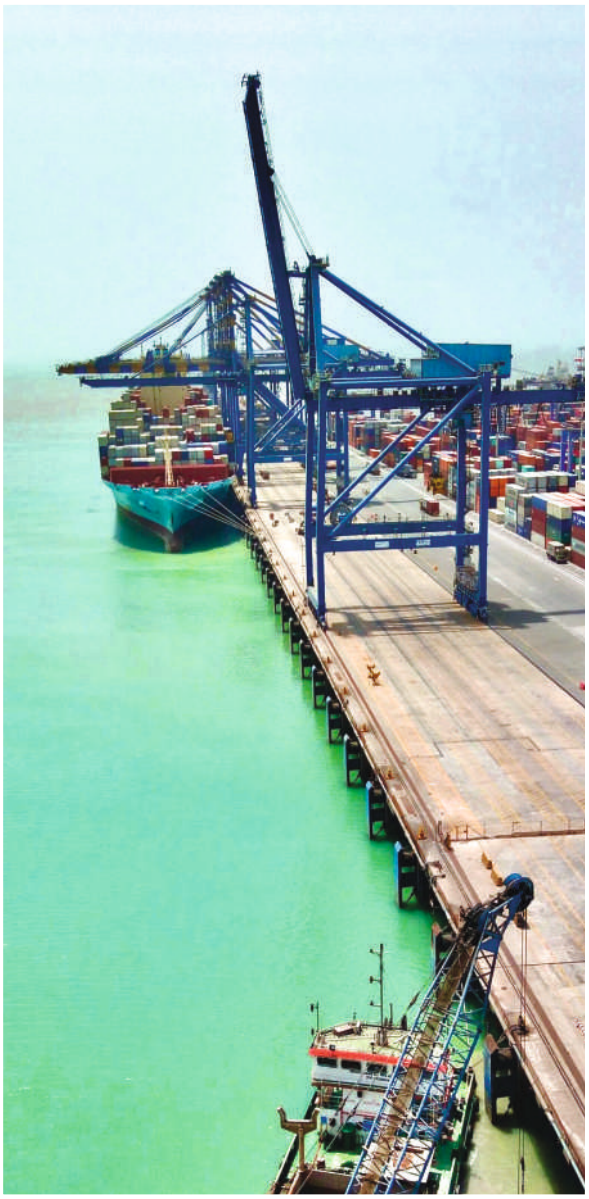
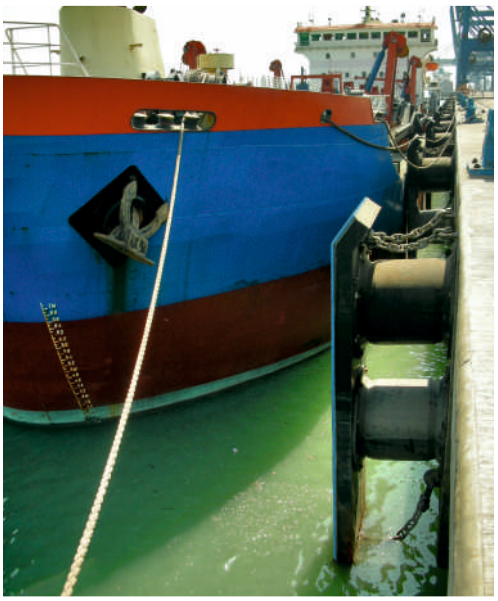
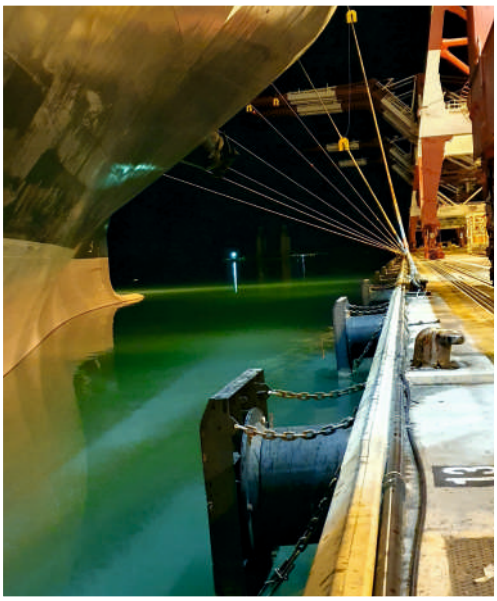
PRODUCT INSTALLATION PICTURES









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