

RUBBER CELL FENDERS

Size and performance guide for all your impact protection needs



The RUBBER
company

Manufacturers · Designers · Distributors



KEY FEATURES OF CELL FENDERS

Our cell fenders are among the most widely used fenders in the marine industry, recognised for their exceptional stability, durability, and energy absorption. Their unique circular design provides superior impact resistance and even load distribution, making them ideal for a wide range of marine applications.

KEY FEATURES

- High performance
- Good shear force resistance
- Can support large panels
- Highly durable design
- Ideal for low pressure systems
- Lower hull pressure
- Multi-direction dispersion of energy
- Superior life expectancy
- Easy installation

Available in outer diameters from 650mm to 3000mm and in various lengths, our cell fenders can be tailored to provide the optimal level of protection for your specific requirements. The combination of high energy absorption and low reaction force makes these fenders both efficient and versatile, suitable for vessels of all sizes.

The circular structure ensures even distribution of impact pressure, reducing localised stress and extending the service life of the fender. Unlike many compression-type fenders, cell fenders exhibit minimal performance change under compression, maintaining their energy absorption and resistance capabilities regardless of vessel weight.

Designed for maximum reliability and long-term performance, our cell fenders deliver proven protection in even the most demanding marine environments.

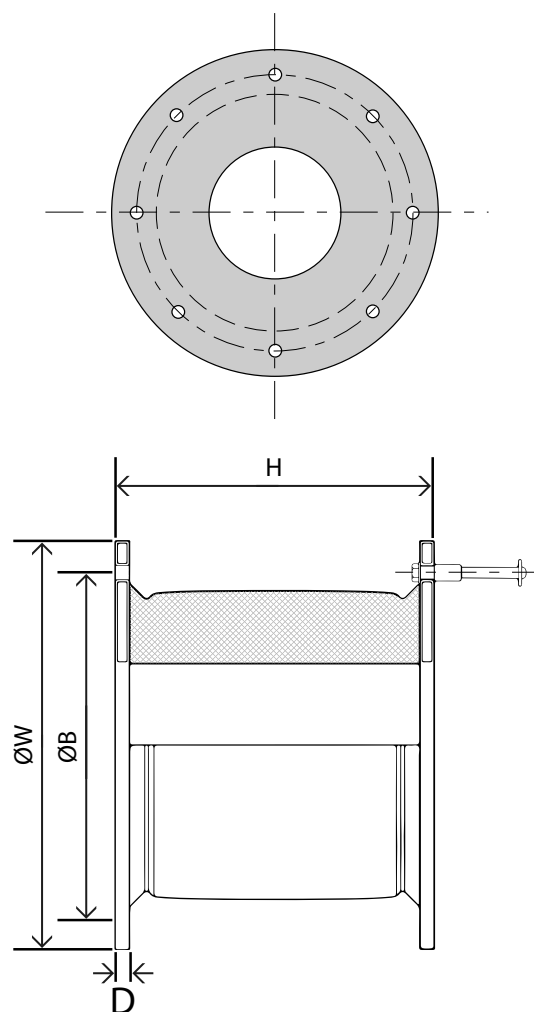
POTENTIAL APPLICATIONS

- Oil & LNG facilities
- Bulk terminals
- Offshore platforms
- Container berths
- RoRo & cruise terminals
- Multi-user berths
- General cargo terminals
- Naval applications



SIZE GUIDE

Model	H	ØW	ØB	D	Anchors/ Head Bolts	Weight
TRC400	400	650	550	24 - 32	4 X M20	75
TRC500	500	650	550	24 - 32	4 X M24	95
TRC630	630	840	700	24 - 32	4 X M27	220
TRC800	800	1050	900	30 - 40	6 X M30	400
TRC1000	1000	1300	1100	33 - 43	6 X M36	790
TRC1150	1150	1500	1300	38 - 48	6 X M42	1200
TRC1250	1250	1650	1450	38 - 48	6 X M42	1500
TRC1450	1450	1850	1650	43 - 53	6 X M48	2300
TRC1600	1600	2000	1800	45 - 55	8 X M48	3000
TRC1700	1700	2100	1900	52 - 62	8 X M56	3700
TRC2000	2000	2200	2000	50 - 65	8 X M64	5000
TRC2250	2250	2550	2300	55 - 70	10 X M64	7400
TRC2500	2500	2950	2700	65 - 80	10 X M64	10700
TRC3000	3000	3350	3150	70 - 90	12 X M76	18500



PERFORMANCE TABLE

Model			E 0.9	E 1.0	E 1.1	E 1.2	E 1.3	E 1.4	E 1.5	E 1.6	E 1.7	E 1.8	E 1.9	E 2.0
TRC400	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
	RPD	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
	CV	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
	RPD	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
TRC500	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
	RPD	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
	CV	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
	RPD	R _R	90.9	100.0	106.5	112.9	119.4	125.8	132.3	138.5	144.7	150.9	157.1	163.3
TRC630	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
	RPD	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
	CV	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
	RPD	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
TRC800	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
	RPD	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
	CV	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
	RPD	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
TRC1000	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
	RPD	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
	CV	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
	RPD	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
TRC1150	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
	RPD	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
	CV	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
	RPD	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
TRC1250	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
	RPD	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
	CV	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
	RPD	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
TRC1450	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
	RPD	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
	CV	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
	RPD	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

Model			E 2.1	E 2.2	E 2.3	E 2.4	E 2.5	E 2.6	E 2.7	E 2.8	E 2.9	E 3.0	E 3.1
TRC400	CV	E	16.4	16.8	17.2	17.6	18.0	18.6	19.2	19.8	20.4	21.0	23.0
	RPD	R	93.6	96.2	98.8	101.4	104.0	106.8	109.6	112.4	115.2	118.0	129.0
	CV	E _R	19.2	19.7	20.1	20.6	21.1	21.8	22.5	23.2	23.9	24.6	26.9
	RPD	R _R	109.5	112.6	115.6	118.6	121.7	125.0	128.2	131.5	134.8	138.1	150.9
TRC500	CV	E	31.0	32.0	33.0	34.0	35.0	35.8	36.6	37.4	38.2	39.0	43.0
	RPD	R	146.2	150.4	154.6	158.8	136.0	167.2	171.4	175.6	179.8	184.0	203.0
	CV	E _R	35.7	36.8	38.0	39.1	40.3	41.2	42.1	43.0	43.9	44.9	49.5
	RPD	R _R	168.1	173.0	177.8	182.6	187.5	192.3	197.1	201.9	206.8	211.6	233.5
TRC630	CV	E	63.8	65.6	67.4	69.2	71.0	72.8	74.6	76.4	78.2	80.0	88.0
	RPD	R	230.6	237.2	243.8	250.4	257.0	263.6	270.2	276.8	283.4	290.0	319.0
	CV	E _R	72.7	74.8	76.8	78.9	80.9	83.0	85.0	87.1	89.1	91.2	100.3
	RPD	R _R	262.9	270.4	277.9	285.5	293.0	300.5	308.0	315.6	323.1	330.6	363.7
TRC800	CV	E	128.0	132.0	136.0	140.0	144.0	147.8	151.6	155.4	159.2	163.0	179.0
	RPD	R	365.8	376.6	387.4	398.2	409.0	420.0	431.0	442.0	453.0	464.0	510.0
	CV	E _R	145.3	149.8	154.4	158.9	163.4	167.8	172.1	176.4	180.7	185.0	203.2
	RPD	R _R	415.2	427.4	439.7	452.0	464.2	476.7	489.2	501.7	514.2	526.6	578.9
TRC1000	CV	E	256.4	263.8	271.2	278.6	286.0	293.6	301.2	308.8	316.4	324.0	356.0
	RPD	R	585.0	602.0	619.0	636.0	653.0	669.8	686.6	703.4	720.2	737.0	811.0
	CV	E _R	287.2	295.5	303.7	312.0	320.3	328.8	337.3	345.9	354.4	362.9	398.7
	RPD	R _R	655.2	674.2	693.3	712.3	731.4	750.2	769.0	787.8	806.6	825.4	908.3
TRC1150	CV	E	390.4	401.8	413.2	424.6	436.0	447.2	458.4	469.6	480.8	492.0	541.0
	RPD	R	772.6	795.2	817.8	840.4	863.0	885.6	908.2	930.8	953.4	976.0	1073.0
	CV	E _R	431.4	444.0	456.6	469.2	481.8	494.2	506.5	518.9	531.3	543.7	597.8
	RPD	R _R	853.7	878.7	903.7	928.6	953.6	978.6	1003.6	1028.5	1053.5	1078.5	1185.7
TRC1250	CV	E	500.6	515.2	529.8	544.4	559.0	573.8	588.6	603.4	618.2	633.0	696.0
	RPD	R	913.6	940.2	966.8	993.4	1020.0	1046.6	1073.2	1099.8	1126.4	1153.0	1269.0
	CV	E _R	550.7	566.7	582.8	598.8	614.9	631.2	647.5	663.7	680.0	696.3	765.6
	RPD	R _R	1005.0	1034.2	1063.5	1092.7	1122.0	1151.3	1180.5	1209.8	1239.0	1268.3	1395.9
TRC1450	CV	E	782.8	805.6	828.4	851.2	874.0	896.8	919.6	942.4	965.2	988.0	1086.0
	RPD	R	1228.8	1264.6	1300.4	1336.2	1372.0	1407.8	1443.6	1479.4	1515.2	1551.0	1707.0
	CV	E _R	853.3	878.1	903.0	927.8	952.7	977.5	1002.4	1027.2	1052.1	1076.9	1183.7
	RPD	R _R	1339.4	1378.4	1417.4	1456.5	1495.5	1534.5	1573.5	1612.5	1651.6	1690.6	1860.6

Model			E 0.9	E 1.0	E 1.1	E 1.2	E 1.3	E 1.4	E 1.5	E 1.6	E 1.7	E 1.8	E 1.9	E 2.0
TRC1600	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
	RPD	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
	CV	E _R	616.9	685.6	728.9	771.1	813.8	856.5	899.3	942.0	984.7	1027.4	1070.2	1112.9
	RPD	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
TRC1700	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
	RPD	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
	CV	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
	RPD	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
TRC2000	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
	RPD	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
	CV	E _R	1186.8	1319.0	1401.0	1483.7	1566.1	1648.4	1730.8	1813.0	1895.9	1978.4	2061.0	2143.6
	RPD	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
TRC2250	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
	RPD	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
	CV	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
	RPD	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
TRC2500	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
	RPD	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
	CV	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
	RPD	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
TRC3000	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
	RPD	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
	CV	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
	RPD	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

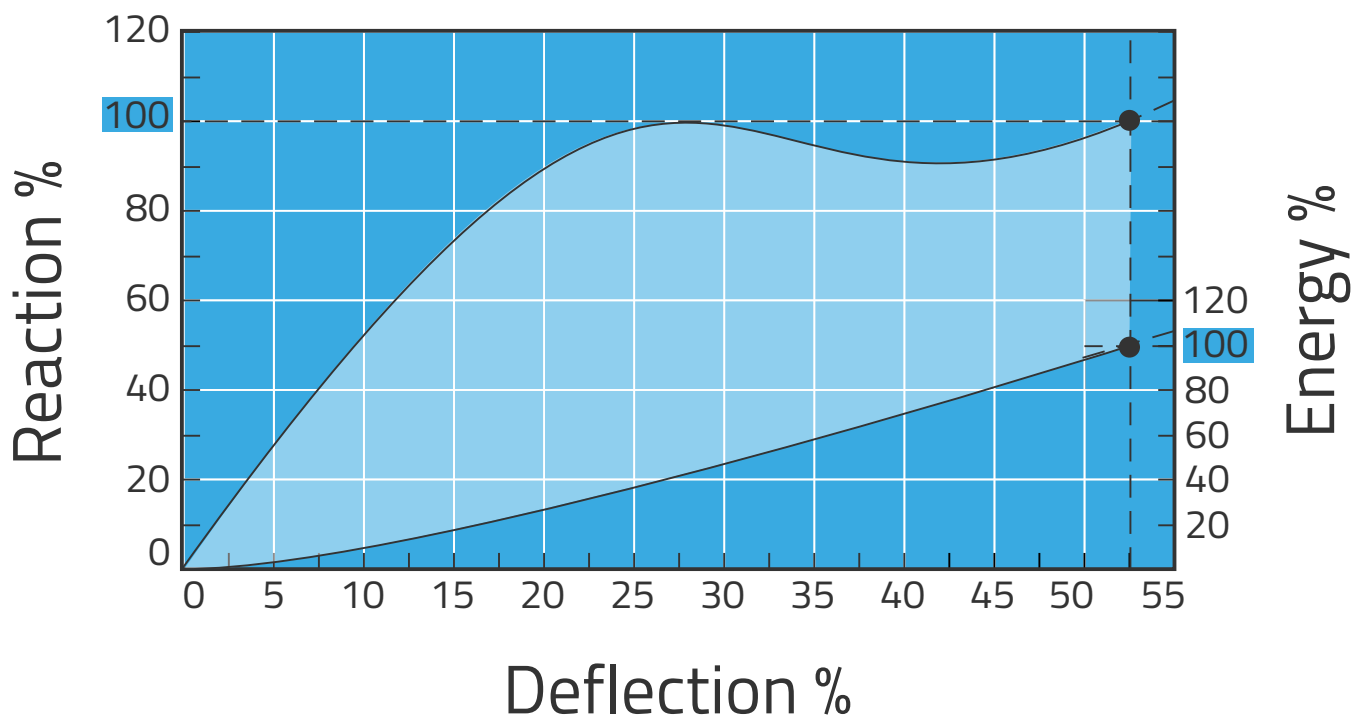


Model			E 2.1	E 2.2	E 2.3	E 2.4	E 2.5	E 2.6	E 2.7	E 2.8	E 2.9	E 3.0	E 3.1
TRC1600	CV	E	1051.6	1082.2	1112.8	1143.4	1174.0	1204.6	1235.2	1265.8	1296.4	1327.0	1460.0
	RPD	R	1496.6	1540.2	1583.8	1627.4	1671.0	1714.6	1758.2	1801.8	1845.4	1889.0	2078.0
	CV	E _R	1146.2	1179.6	1213.0	1246.3	1279.7	1313.0	1346.4	1379.7	1413.1	1446.4	1591.4
	RPD	R _R	1631.3	1678.8	1726.3	1773.9	1821.4	1868.9	1916.4	1964.0	2011.5	2059.0	2265.0
TRC1700	CV	E	1261.6	1298.2	1334.8	1371.4	1408.0	1444.8	1481.6	1518.4	1555.2	1592.0	1751.0
	RPD	R	1690.0	1739.0	1788.0	1837.0	1886.0	1935.2	1984.4	2033.6	2082.8	2132.0	2345.0
	CV	E _R	1375.1	1415.0	1454.9	1494.8	1534.7	1574.8	1614.9	1655.1	1695.2	1735.3	1908.6
	RPD	R _R	1842.0	1895.5	1948.9	2002.3	2055.7	2109.4	2163.0	2216.6	2270.3	2323.9	2556.1
TRC2000	CV	E	2053.8	2113.6	2173.4	2233.2	2293.0	2352.8	2412.6	2472.4	2532.2	2592.0	2851.0
	RPD	R	2335.4	2402.8	2470.2	2537.6	2605.0	2672.4	2739.8	2807.2	2874.6	2942.0	3236.0
	CV	E _R	2207.8	2272.1	2336.4	2400.7	2465.0	2529.3	2593.5	2657.8	2722.1	2786.4	3064.8
	RPD	R _R	2510.6	2583.0	2655.5	2727.9	2800.4	2872.8	2945.3	3017.7	3090.2	3162.7	3478.7
TRC2250	CV	E	3245.6	3340.2	3434.8	3529.4	3624.0	3718.4	3812.8	3907.2	4001.6	4096.0	4506.0
	RPD	R	3284.8	3380.6	3476.4	3572.2	3668.0	3763.6	3859.2	3954.8	4050.4	4146.0	4561.0
	CV	E _R	3472.8	3574.0	3675.2	3776.5	3877.7	3978.7	4079.7	4180.7	4281.7	4382.7	4821.4
	RPD	R _R	3514.7	3617.2	3719.7	3822.3	3924.8	4027.1	4129.3	4231.6	4333.9	4436.2	4880.3
TRC2500	CV	E	4452.6	4582.2	4711.8	4841.4	4971.0	5100.6	5230.2	5359.8	5489.4	5619.0	6181.0
	RPD	R	4055.2	4173.4	4291.6	4409.8	4528.0	4646.2	4764.4	4882.6	5000.8	5119.0	5631.0
	CV	E _R	4719.8	4857.1	4994.5	5131.9	5269.3	5406.6	5544.0	5681.4	5818.8	5956.1	6551.9
	RPD	R _R	4298.5	4423.8	4549.1	4674.4	4799.7	4925.0	5050.3	5175.6	5300.8	5426.1	5968.9
TRC3000	CV	E	6761.8	6952.6	7143.4	7334.2	7525.0	7715.8	7906.6	8097.4	8288.2	8479.0	9327.0
	RPD	R	5855.6	6023.2	6190.8	6358.4	6526.0	6693.4	6860.8	7028.2	7195.6	7363.0	8099.0
	CV	E _R	7099.9	7300.2	7500.6	7700.9	7901.3	8101.6	8301.9	8502.3	8702.6	8903.0	9793.4
	RPD	R _R	6148.4	6324.4	6500.3	6676.3	6852.3	7028.1	7203.8	7379.6	7555.4	7731.2	8504.0

- CV: performance data at slow speed constant velocity (2-8 cm/min) compression at $23^{\circ} \pm 5^{\circ}\text{C}$ temperature and 0° compression angle.
- RPD: Rated performance data, in accordance with PIANC with initial high speed berthing velocity 0.15 m/s.
 $\text{RPD} = \text{CV (performance)} \times \text{VF (velocity factor for Natural and Synthetic rubber blend)} \times \text{TF (temperature factor)} \times \text{AF (angle factor)}$.
 RPD is reported at $23^{\circ} \pm 5^{\circ}\text{C}$ temperature and 0° compression angle, therefore $\text{TF} = 1$, $\text{AF} = 1$.
- 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.
- If fenders are tested in decreasing velocity (DV) mode at initial velocity 0.15 m/s, 0° compression angle and $23^{\circ} \pm 5^{\circ}\text{C}$ testing temperature, $\text{RPD} = \text{DV (performance)}$.
- Fender performance is subject to $\pm 10\%$ manufacturing tolerance (+10% for reaction force and -10% for energy).
- CV performance is based on a rubber compound blend of natural and synthetic rubber.

DEFLECTION & ANGLE FACTOR DATA

DEFLECTION PERFORMANCE GRAPH



ANGLE FACTOR (AF) TABLE

Angle	Energy Factor	Reaction Factor
0°	480	700
3°	510	700
5°	600	880
8°	700	1120
10°	850	1500
15°	990	1730
20°	1060	1870

INTERMEDIATE REFLECTION TABLE

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

VELOCITY FACTOR DATA

Compression Time (seconds)	Blend of Natural Rubber & Synthetic Rubber	100% Natural Rubber (NR)	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: $t = d / (f \cdot V_d)$

Where:

t = compression time (seconds)*

d = rated deflection (mm)

V_d = initial berthing velocity (mm/s)

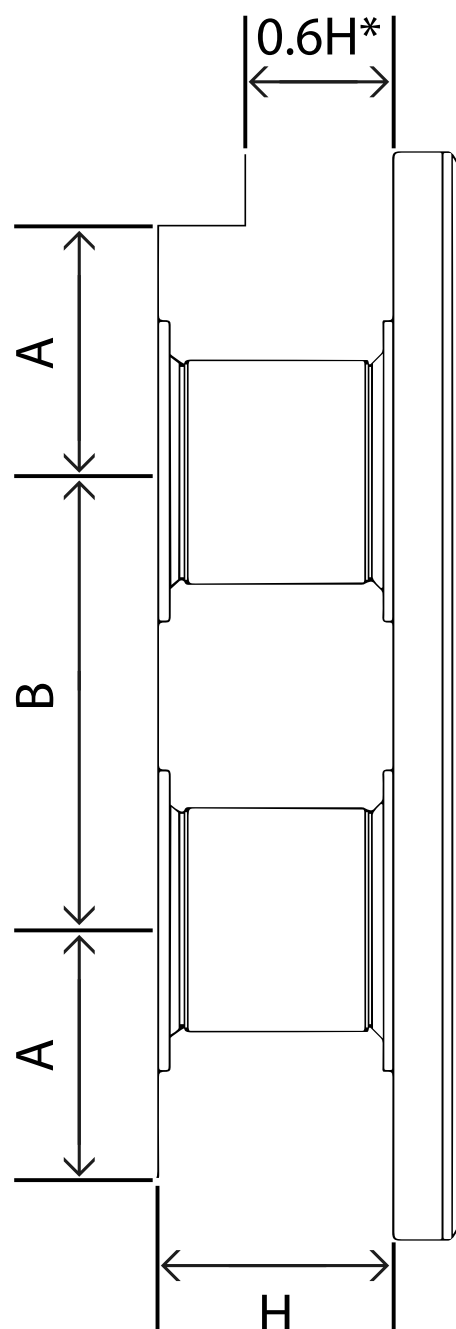
f = 0.74 deceleration factor (Peak reaction force occurs at between 30% - 40% deflection, where there has been a deceleration due to energy absorption. f represents the factor associated with deceleration.)

* Applicable for both partial deflection and rated deflection.

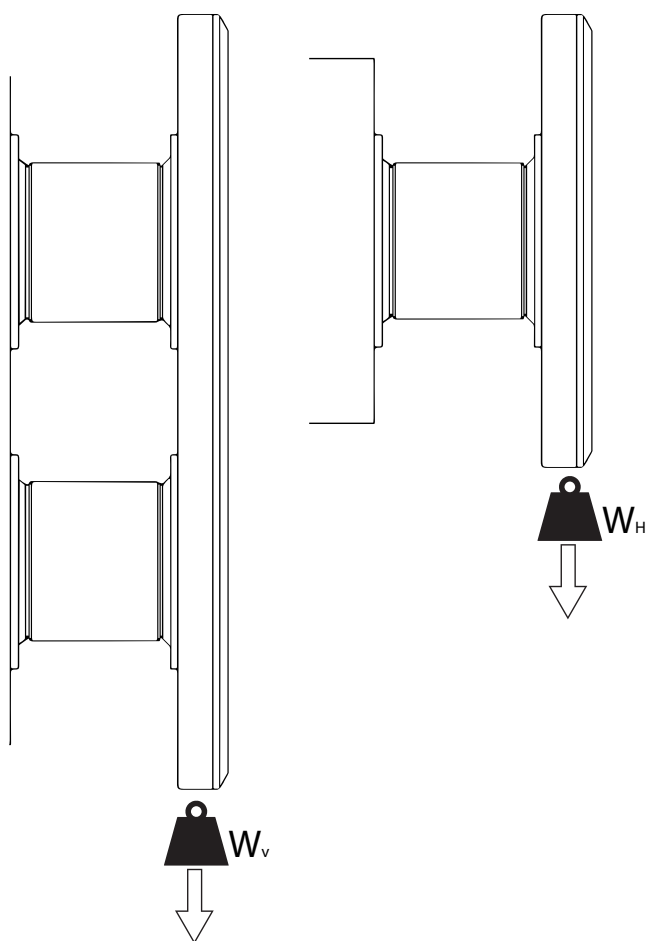
CELL FENDER CLEARANCES

For optimal performance and extended service life, it is essential to allow adequate clearance around and between each cell fender and the associated steel panel. Proper spacing ensures that the fenders can deflect impact forces and absorb energy effectively without interference or restriction. The distances indicated in the table below are provided as general guidelines only. If you are uncertain about the required spacing for your installation, please don't hesitate to consult our technical team for assistance.

Model (H)	Edge (A)	Centres (B)
TRC400	480	700
TRC500	510	700
TRC630	600	880
TRC800	700	1120
TRC1000	850	1500
TRC1150	990	1730
TRC1250	1060	1870
TRC1450	1200	2180
TRC1600	1270	2400
TRC1700	1470	2550
TRC2000	1560	2880
TRC2250	1710	3360
TRC2500	1910	3730
TRC3000	2240	4500



CELL FENDER WEIGHT SUPPORT



There are several important factors to consider when setting up and installing cell fenders. The first is the size and weight of the vessels that will come into contact with the fender, as these directly influence the type and configuration required. It is also essential to select the appropriate fender panel or frontal frame to be used in conjunction with the cell fender, ensuring optimal performance and longevity.

Overloading a cell fender with excessive weight can lead to reduced performance and a shorter service life, so careful calculation of impact loads is vital. As illustrated in the accompanying drawings, cell fenders can be installed to distribute loads either horizontally or vertically, depending on the design and operational requirements.

When arranging the fenders for horizontal load distribution, you may choose to use single or multiple cell fenders to achieve the desired protection level. The table below provides guidance on the recommended fender sizes suitable for various vessel weights and operational conditions.

Fender	Single or Multiple Horizontal ($n \geq 1$)	Multiple Vertical ($n \geq 2$)	(H)
E1	$W_h \leq x 1.0 \times w$	$W_v \leq x 1.25 \times w$	≤ 800
E2	$W_h \leq x 1.3 \times w$	$W_v \leq x 1.75 \times w$	
E3	$W_h \leq x 1.5 \times w$	$W_v \leq x 2.25 \times w$	
E1	$W_h \leq x 11 \times w^{0.6}$	$W_v \leq x 13.75 \times w^{0.6}$	≥ 1000
E2	$W_h \leq x 19 \times w^{0.6}$	$W_v \leq x 23.75 \times w^{0.6}$	
E2	$W_h \leq x 25 \times w^{0.6}$	$W_v \leq x 31.25 \times w^{0.6}$	

n = number of cell fenders

W = SCK weight

W_h = panel weight (single or multi-horizontal)

W_v = panel weight (single or multi-vertical)

Interpolate for other grades



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Please contact us for certified drawings and performance data in regards to specific projects. We will be happy to provide guidance on the correct fender system.

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