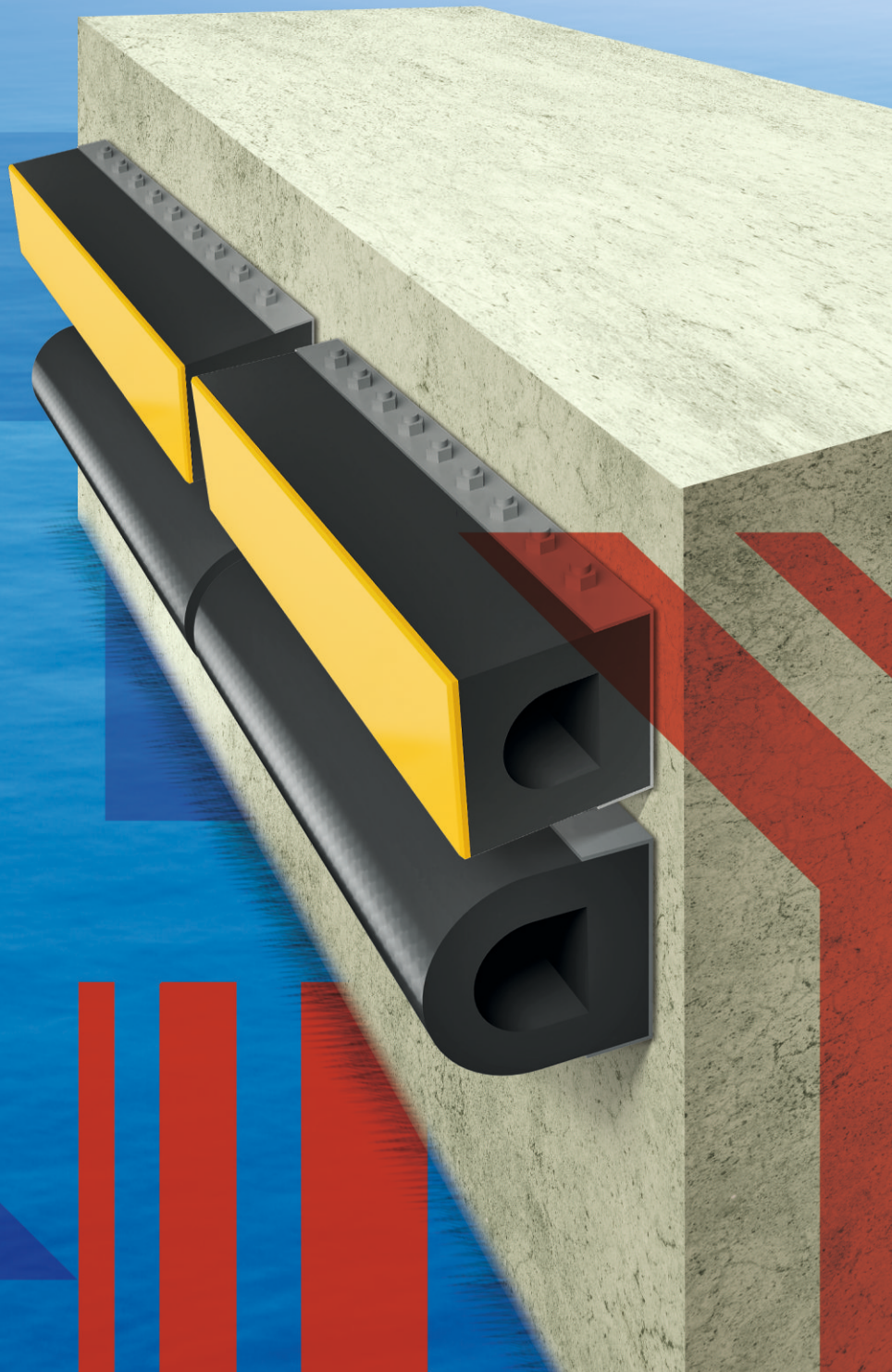


CONVENTIONAL DOCK FENDERS

D & SQUARE FENDER (HDF & HSF)



Where
Innovation
is Tradition



D & SQUARE FENDER (HDF & HSF)

One of the most popular extruded fenders are D & Square Fenders which are simple rubber profiles, usually attached with bolts to the structure.

Extrusions can be made in virtually any length then cut and drilled to suit each application. Pre-curved sections and special sizes are available on request. Usually black in colour, extruded fenders can also be supplied in creamy white as an option.

FEATURES

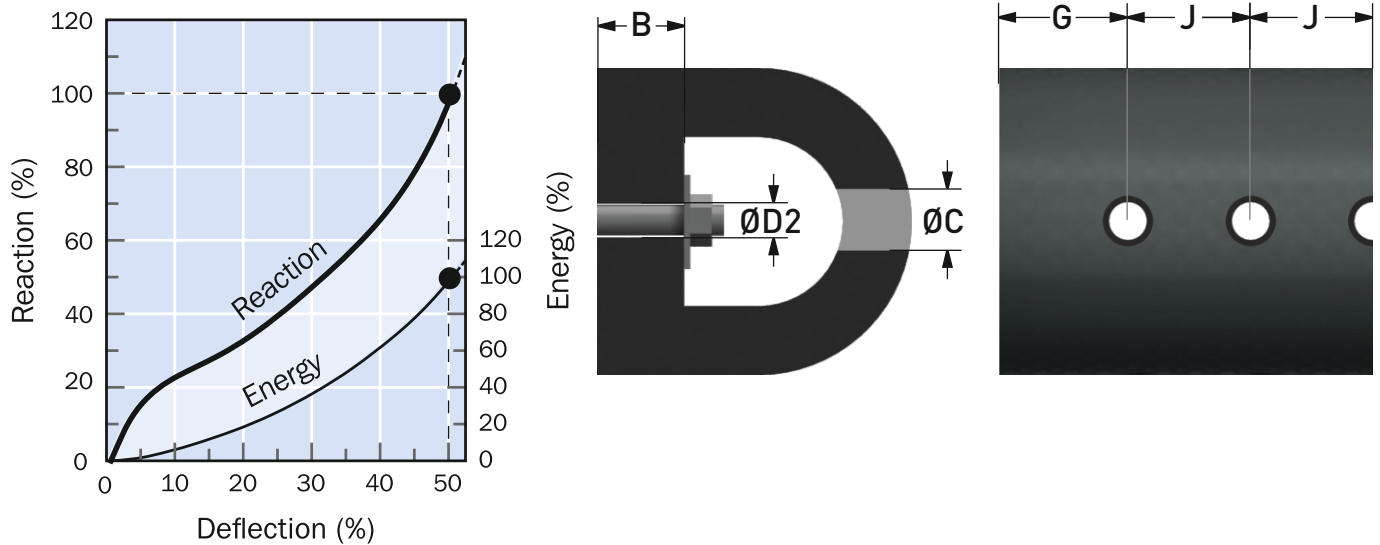
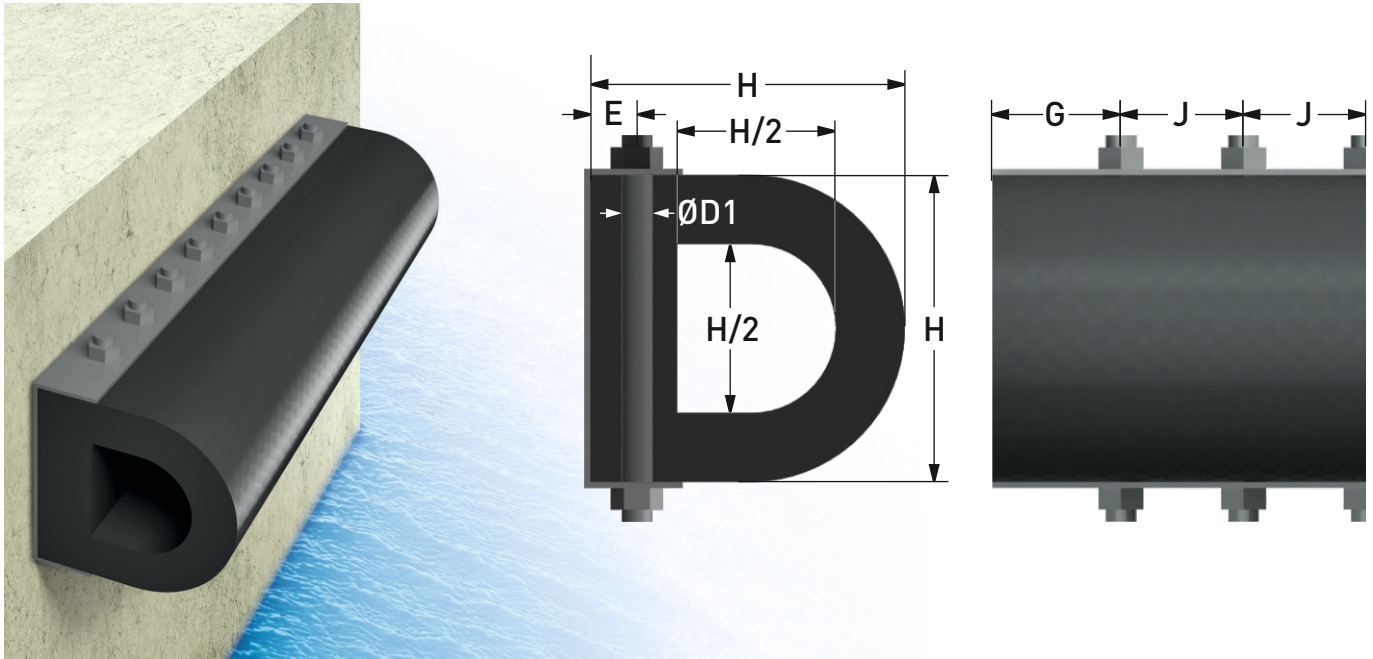
- Wide Range of Standard Sizes
- Available in almost any Length
- Various Fixing Methods
- Simple, Robust Design
- Special Pre-Curves Available
- Black or Creamy White

APPLICATIONS

- Jetties and Wharves for Small Craft
- Tugs and Workboats
- Pontoon Protection
- Inland Waterways
- General Purpose Fendering

D & SQUARE FENDER (HDF & HSF)

HDD FENDER

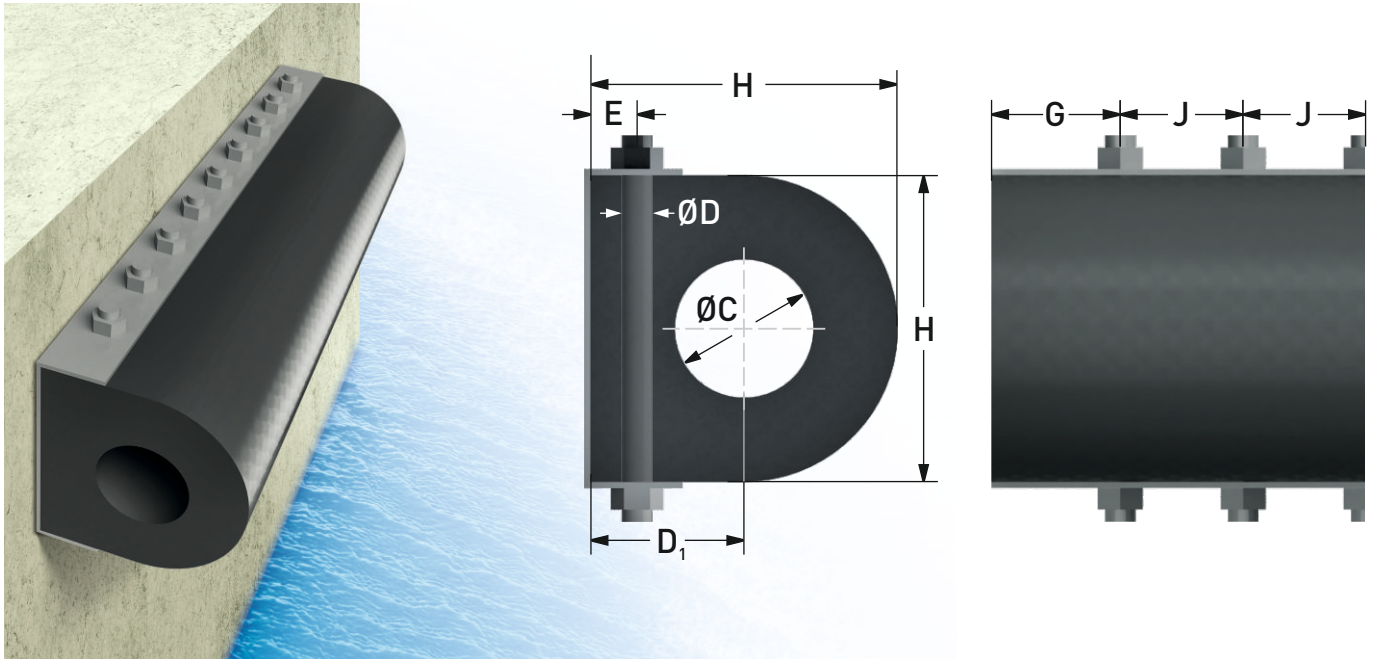


H	B	ØC	ØD1	ØD2	E	J	G	FLAT BAR	BOLT SIZE	WEIGHT	ENERGY	REACTION
100 x 100	25.0	30	18	24	25	200-300	90-130	40 x 5	M12	8.3	1.4	77
150 x 150	37.5	40	24	32	30	250-350	110-150	50 x 8	M16	18.0	3.2	115
200 x 200	50.0	50	30	40	45	300-400	130-180	70 x 10	M20	32.0	5.7	153
250 x 250	62.5	60	36	48	50	350-450	140-200	90 x 12	M24	50.0	8.9	191
300 x 300	75.0	60	36	48	60	350-450	140-200	100 x 12	M24	72.0	12.9	230
350 x 350	87.5	75	45	60	70	350-450	140-200	130 x 15	M30	103.6	17.6	268
380 x 380	95.0	75	45	60	80	350-450	140-200	140 x 15	M30	122.1	20.0	286
400 x 400	100.0	75	45	60	80	350-450	140-200	150 x 15	M30	128.0	23.0	306
500 x 500	125.0	90	54	72	90	400-500	160-230	180 x 20	M36	200.0	35.9	383

[Units: mm, kg/m, kNm]

D & SQUARE FENDER (HDF & HSF)

HDO FENDER



H	ØC	D ₁	ØD	E	G	J	FLAT BAR	BOLT SIZE	WEIGHT
100 x 100	30	50	15	25	90-130	200-300	50 x 6	M12	10.1
150 x 150	65	75	20	30	110-150	250-350	60 x 8	M16	20.6
200 x 200	75	100	25	45	130-180	300-400	80 x 10	M20	38.5
250 x 250	100	125	30	50	140-200	350-450	100 x 10	M24	59.0
300 x 300	125	150	30	60	140-200	350-450	110 x 12	M24	83.7
350 x 350	150	175	35	70	140-200	350-450	120 x 12	M30	113.0
400 x 400	175	200	35	80	140-200	350-450	130 x 15	M30	146.0
400 x 400	200	200	35	80	140-200	350-450	130 x 15	M30	137.0
500 x 500	250	250	35	100	140-200	350-450	130 x 15	M36	214.0

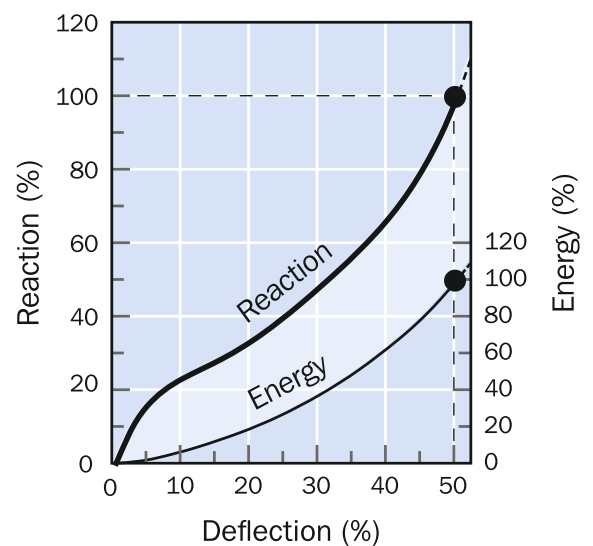
[Units: mm, kg/m]

PERFORMANCE

FENDER SIZE	E	R
100 x 100 Ø30	1.9	157
150 x 150 Ø65	4.2	235
200 x 200 Ø75	7.5	314
200 x 200 Ø100	-	-
250 x 250 Ø100	11.7	392
300 x 300 Ø125	16.9	471
350 x 350 Ø150	22.9	549
350 x 350 Ø175	-	-
400 x 400 Ø200	29.4	628
500 x 500 Ø250	46.0	785

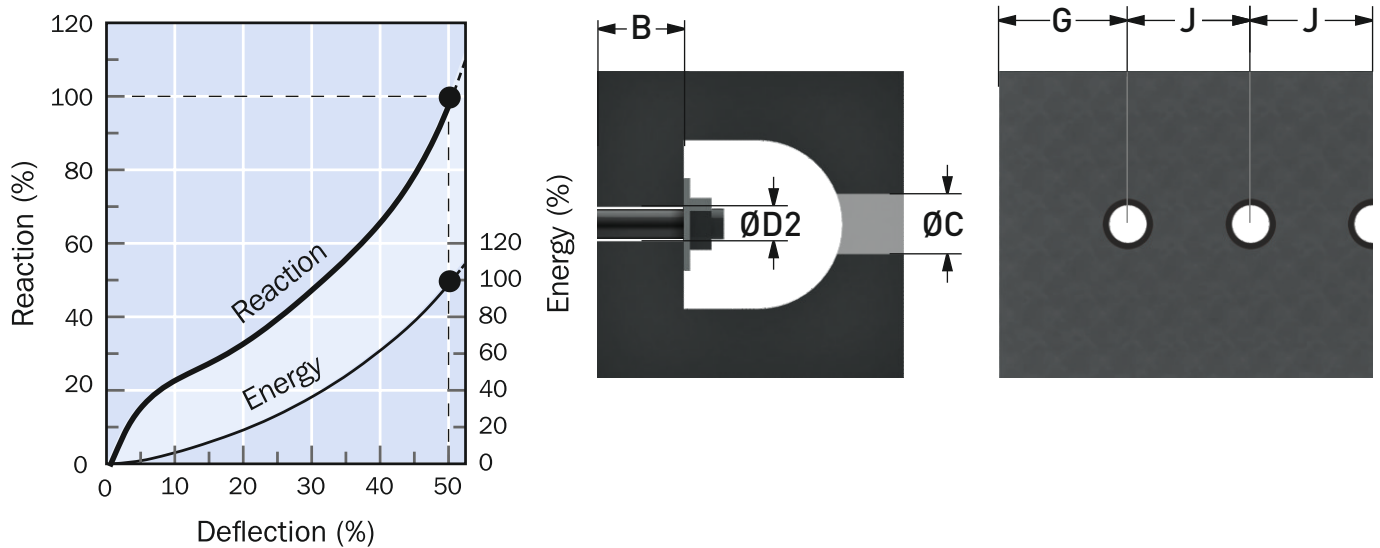
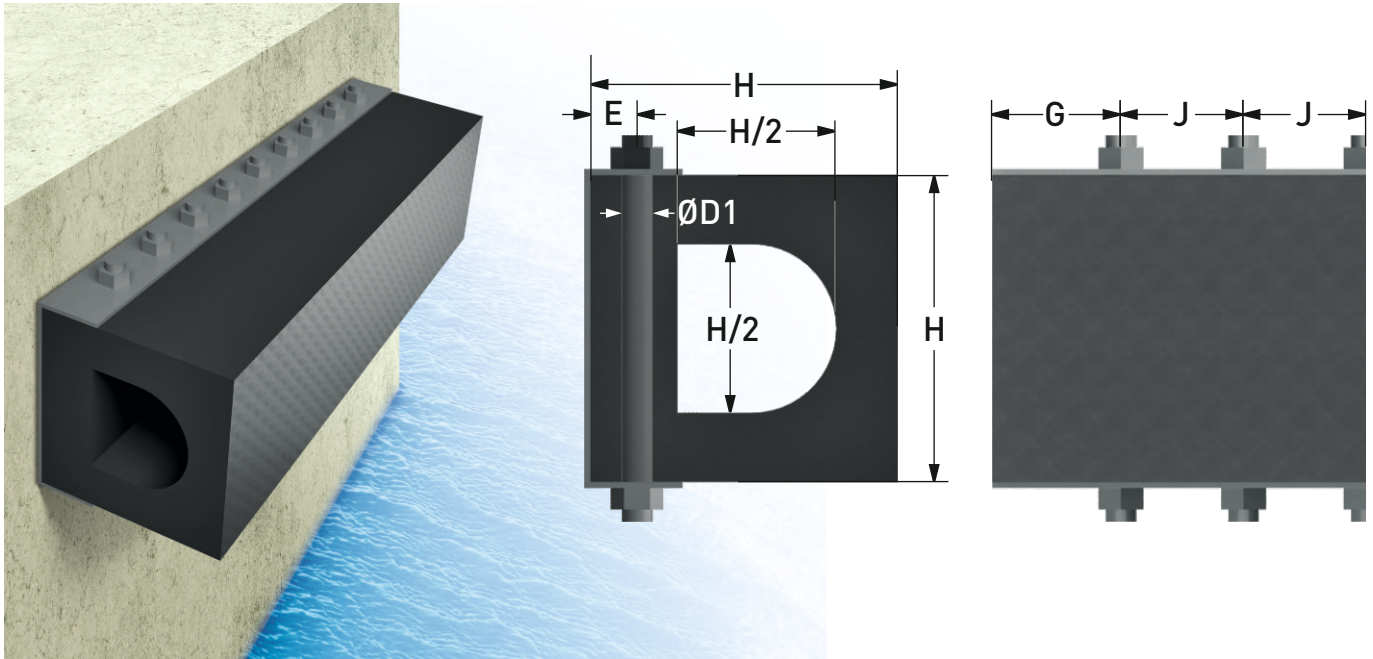
Values are per meter

[Units: kNm, kN]



D & SQUARE FENDER (HDF & HSF)

HSD FENDER

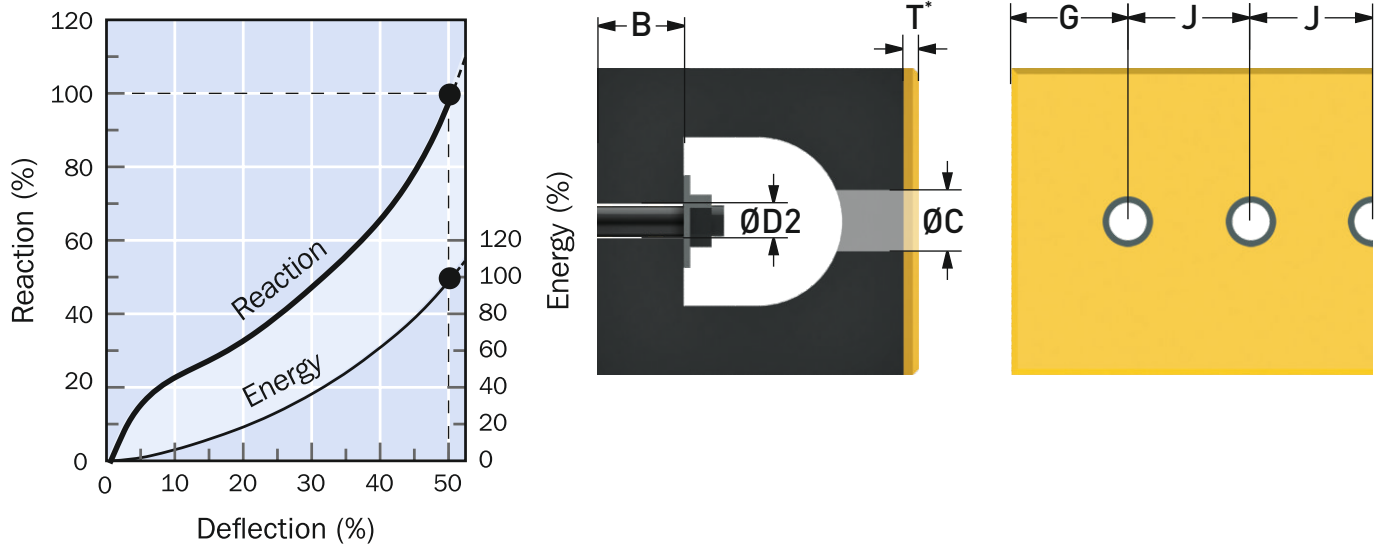
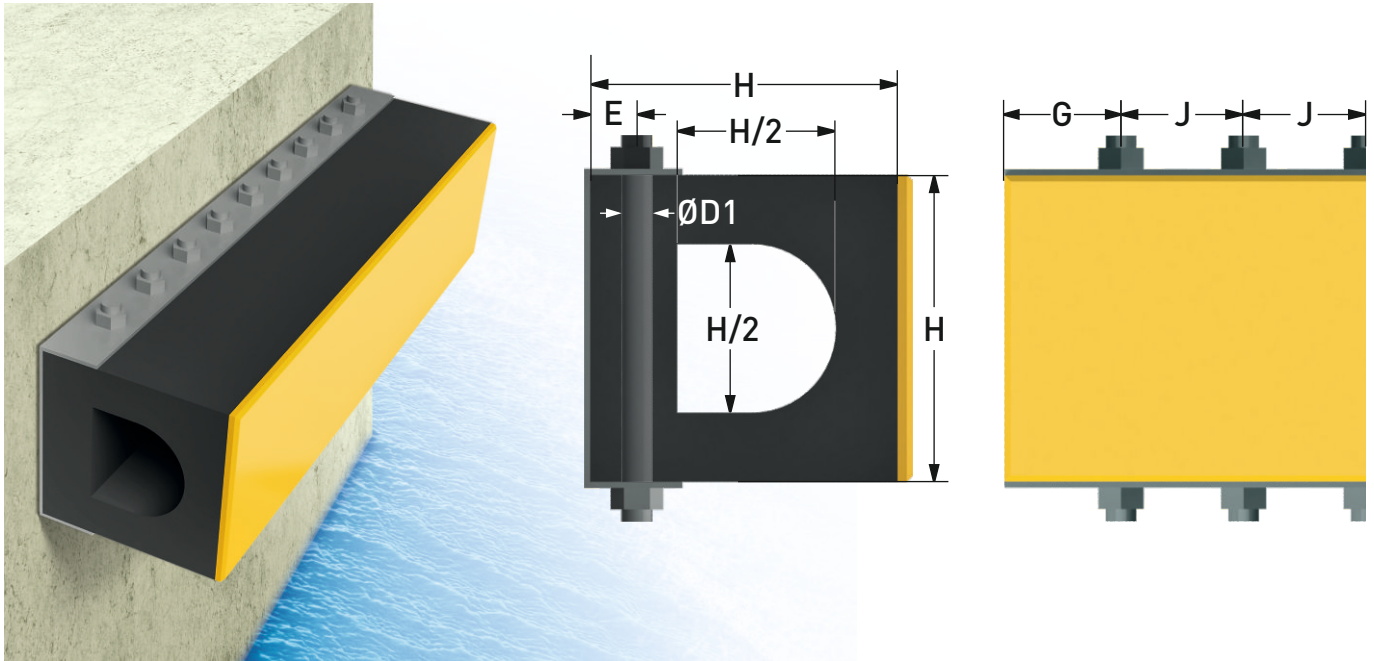


H	B	ØC	ØD1	ØD2	E	J	G	FLAT BAR	BOLT SIZE	WEIGHT	ENERGY	REACTION
100 x 100	25.0	30	18	24	25	200-300	90-130	40 x 5	M12	9.5	2.7	136
150 x 150	37.5	40	24	32	30	250-350	110-150	50 x 8	M16	22.1	6.4	206
200 x 200	50.0	50	30	40	45	300-400	130-180	70 x 10	M20	38.7	11.3	275
250 x 250	62.5	60	36	48	50	350-450	140-200	90 x 12	M24	59.3	17.6	343
300 x 300	75.0	60	36	48	60	350-450	140-200	100 x 12	M24	85.0	25.5	412
350 x 350	87.5	75	45	60	70	350-450	140-200	130 x 15	M30	116.0	34.3	471
400 x 400	100.0	75	45	60	80	350-450	140-200	150 x 15	M30	148.5	45.2	589
500 x 500	125.0	90	54	72	90	400-500	160-230	180 x 20	M36	232.1	70.7	736

[Units: mm, kg/m, kNm]

D & SQUARE FENDER (HDF & HSF)

HSD-U FENDER



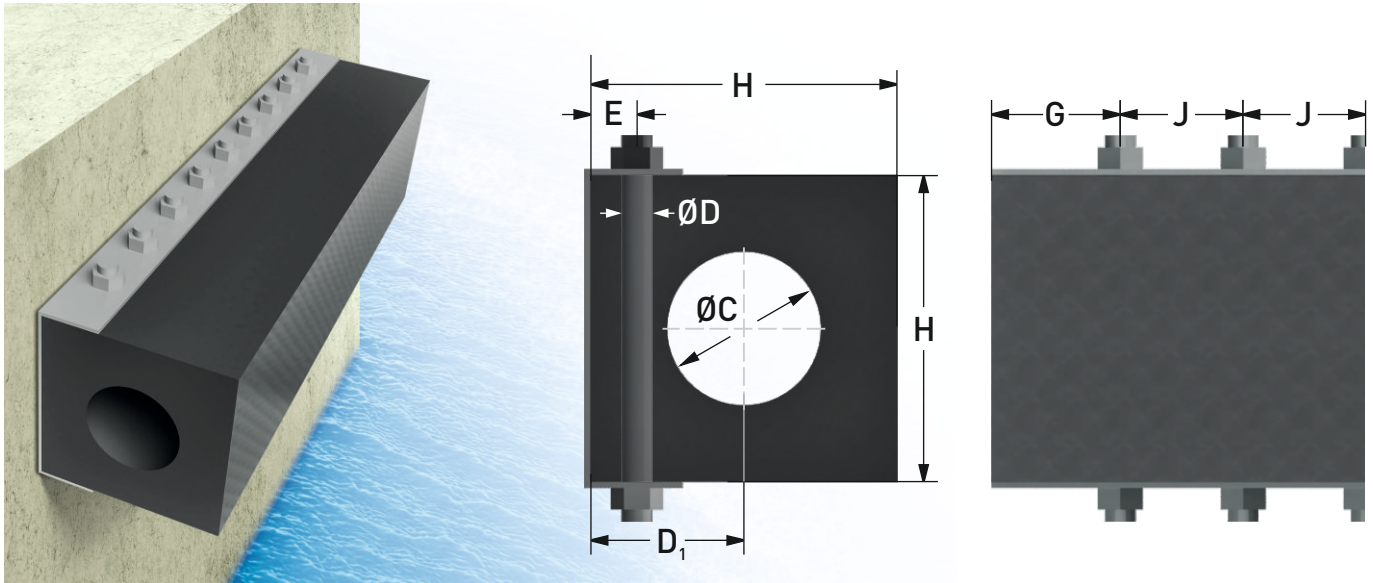
H	B	ØC	ØD1	ØD2	E	J	T*	G	FLAT BAR	BOLT SIZE	WEIGHT	ENERGY	REACTION
100 x 100	25.0	30	18	24	25	200-300	20	90-130	40 x 5	M12	9.5	2.7	136
150 x 150	37.5	40	24	32	30	250-350	20	110-150	50 x 8	M16	22.1	6.4	206
200 x 200	50.0	50	30	40	45	300-400	20	130-180	70 x 10	M20	38.7	11.3	275
250 x 250	62.5	60	36	48	50	350-450	20	140-200	90 x 12	M24	59.3	17.6	343
300 x 300	75.0	60	36	48	60	350-450	20	140-200	100 x 12	M24	85.0	25.5	412
350 x 350	87.5	75	45	60	70	350-450	20	140-200	130 x 15	M30	116.0	34.3	471
400 x 400	100.0	75	45	60	80	350-450	20	140-200	150 x 15	M30	148.5	45.2	589
500 x 500	125.0	90	54	72	90	400-500	20	160-230	180 x 20	M36	232.1	70.7	736

*Thickness and colour of the UHMWPE sheet is customizable.

[Units: mm, kg/m, kNm]

D & SQUARE FENDER (HDF & HSF)

HSO FENDER



H	ØC	D ₁	ØD	E	G	J	FLAT BAR	BOLT SIZE	WEIGHT
100 x 100	30	50	15	25	90-130	200-300	50 x 6	M12	11.4
150 x 150	65	75	20	30	110-150	250-350	60 x 8	M16	23.6
200 x 200	75	100	25	45	130-180	300-400	80 x 10	M20	43.8
200 x 200	100	100	25	40	130-180	300-400	80 x 10	M20	39.5
250 x 250	100	125	30	50	140-200	350-450	100 x 10	M24	67.2
300 x 300	125	150	30	60	140-200	350-450	110 x 12	M24	95.6
350 x 350	150	175	35	65	140-200	350-450	120 x 12	M30	126.0
350 x 350	175	175	35	65	140-200	350-450	120 x 12	M30	121.0
400 x 400	200	200	35	70	140-200	350-450	130 x 15	M30	158.0
500 x 500	250	250	45	90	150-230	400-500	150 x 20	M36	247.0

Other dimensions of HSO fenders are available upon request.

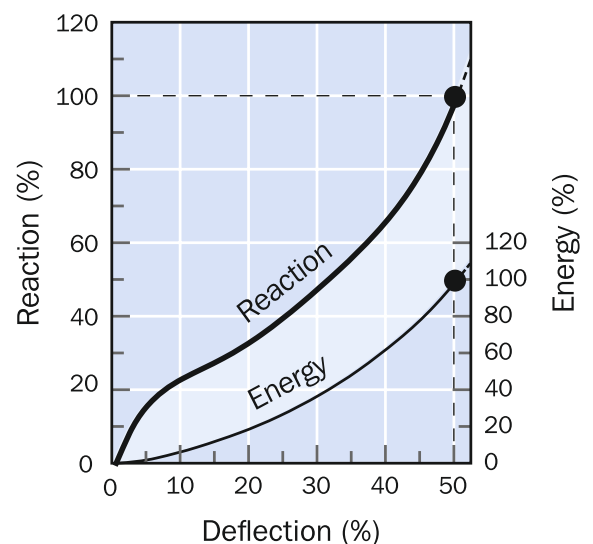
[Units: mm, kg/m]

PERFORMANCE

FENDER SIZE	E	R
100 x 100 Ø30	2.7	173
150 x 150 Ø65	6.4	259
200 x 200 Ø75	6.7	261
200 x 200 Ø100	11.3	345
250 x 250 Ø100	17.7	431
300 x 300 Ø125	25.5	518
350 x 350 Ø150	21.0	423
350 x 350 Ø175	34.3	604
400 x 400 Ø200	45.1	690
500 x 500 Ø250	70.5	863

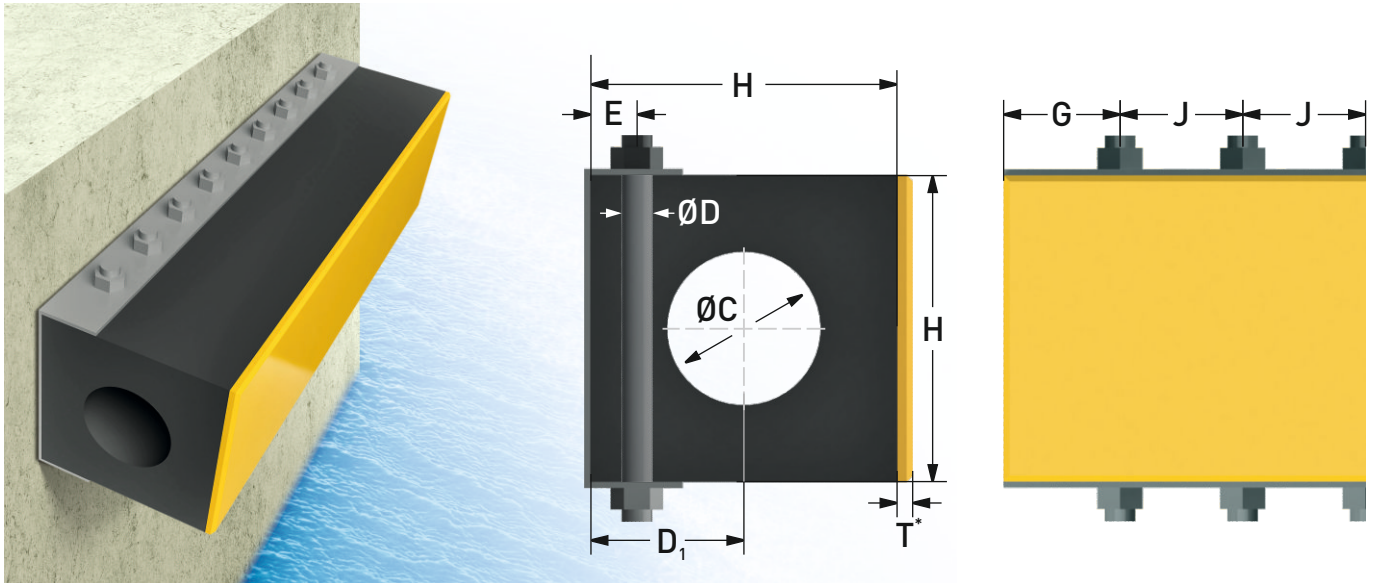
Values are per meter

[Units: kNm, kN]



D & SQUARE FENDER (HDF & HSF)

HSO-U FENDER



H	ØC	D ₁	ØD	E	T*	G	J	FLAT BAR	BOLT SIZE	WEIGHT
100 x 100	30	50	15	25	20	90-130	200-300	50 x 6	M12	11.4
150 x 150	65	75	20	30	20	110-150	250-350	60 x 8	M16	23.6
200 x 200	75	100	25	45	20	130-180	300-400	80 x 10	M20	43.8
200 x 200	100	100	25	40	20	130-180	300-400	80 x 10	M20	39.5
250 x 250	100	125	30	50	20	140-200	350-450	100 x 10	M24	67.2
300 x 300	125	150	30	60	20	140-200	350-450	110 x 12	M24	95.6
350 x 350	150	175	35	65	20	140-200	350-450	120 x 12	M30	126.0
350 x 350	175	175	35	65	20	140-200	350-450	120 x 12	M30	121.0
400 x 400	200	200	35	70	20	140-200	350-450	130 x 15	M30	158.0
500 x 500	250	250	45	90	20	150-230	400-500	150 x 20	M36	247.0

*Thickness and colour of the UHMWPE sheet is customizable.

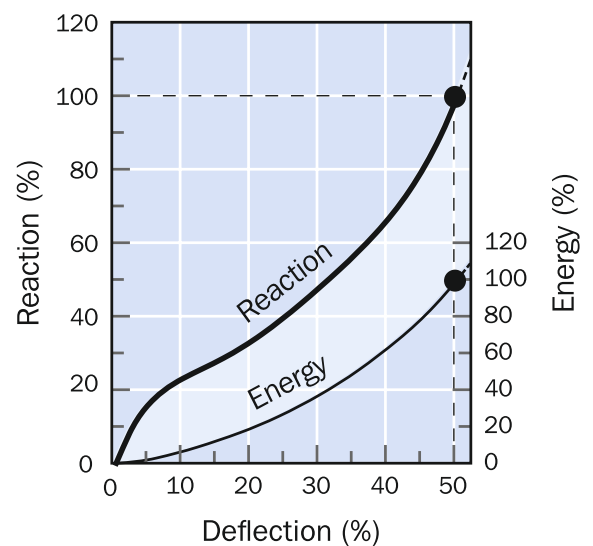
[Units: mm, kg/m]

PERFORMANCE

FENDER SIZE	E	R
100 x 100 Ø30	2.7	173
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300 x 300 Ø125	25.5	518
350 x 350 Ø150	21.0	423
350 x 350 Ø175	34.3	604
400 x 400 Ø200	45.1	690
500 x 500 Ø250	70.5	863

Values are per meter

[Units: kNm, kN]



PRODUCT INSTALLATION PICTURES



PRODUCT INSTALLATION PICTURES





HI-TECH ELASTOMERS LTD.

WHERE INNOVATION IS A TRADITION

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