ECR-3 FENFER DATA SHEET

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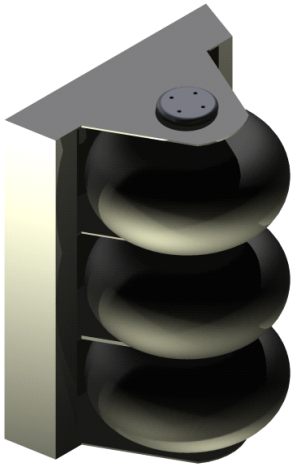
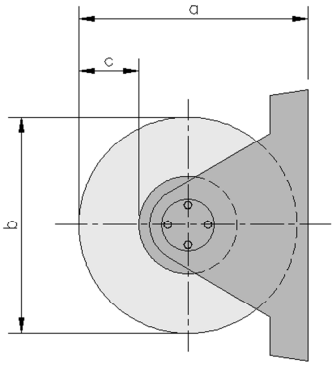
Rev.	Date	Description	Prepared by	Checked by	Approved by
0	06/03/2014	First Issue	BFA	DBL	GEB
1	14/05/2015	General Revision	BFA		GEB

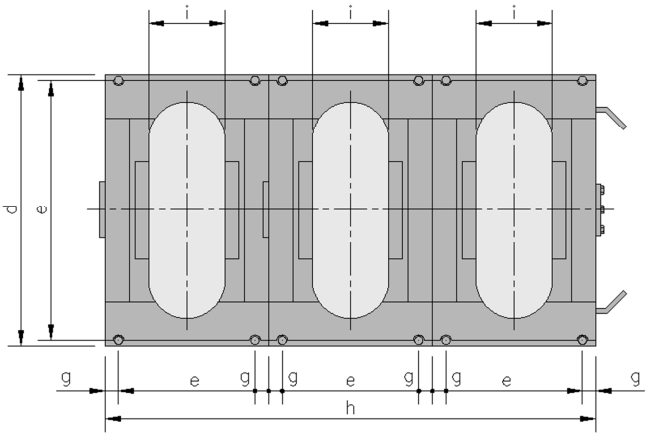
1. ECR-3 FENDERS



Features	Applications
High deformation capacity	All kind of berths (coastal, river, tidal and non-tidal)
Strong and durable design	All types of ships (general cargo, bulk carrier, oil tanker, gas carrier, passenger…)
Low rolling resistance	
Gentle contact face	All exposed corners and entrances

2. DIMENSIONS



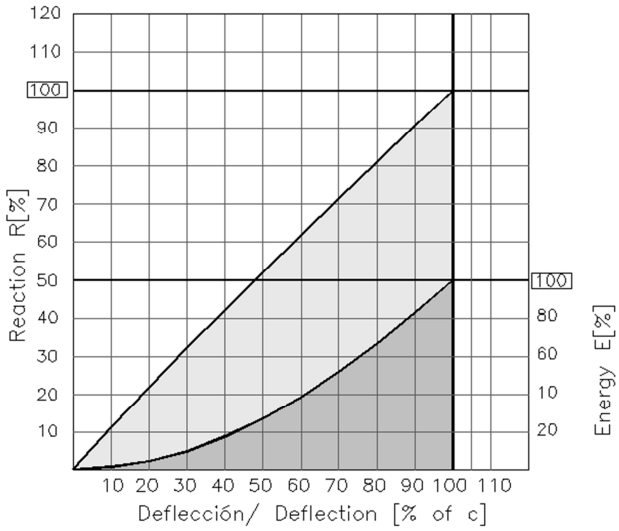


Fender	a	b	c	d	e	f	g	h	i	Weight (kg)	NºAnchors/ Metric
ECR-3-600	620	600	125	695	590	300	40	1120	200	412	12xM.22
ECR-3-750	775	750	160	870	750	375	40	1360	250	1026	12xM.22
ECR-3-900	930	900	184	1040	900	450	60	1630	300	1640	12xM.30
ECR-3-1200	120	1200	260	1380	1250	600	80	2180	400	2868	12xM.30
ECR-3-1500	1550	1500	324	1740	1550	750	100	2690	500	4096	12xM.36
ECR-3-1800	1860	1800	392	2080	1800	900	125	3220	600	5324	12xM.42
ECR-3-2100	2205	2100	455	2440	2200	1050	150	3770	700	6552	12xM.48
ECR-3-2400	2480	2400	511	2770	2500	1180	175	4290	800	7780	12xM.56
ECR-3-2700	2790	2700	580	3130	2900	1330	200	4830	900	9008	12xM.60
ECR-3-3000	3100	3000	640	3480	3200	1470	225	5360	1000	10236	12xM.64

All dimension in mm unless otherwise specified.

3. NOMINAL FENDER PERFORMANCE*

Fender		Grade A
ECR-3-600	R	205
	E	7.16
	D	125
ECR-3-750	R	320
	E	14
	D	160
ECR-3-900	R	460
	E	24.2
	D	184
ECR-3-1200	R	827
	E	59.5
	D	260
ECR-3-1500	R	1293
	E	114
	D	324
ECR-3-1800	R	1858
	E	201
	D	392
ECR-3-2100	R	2522
	E	313
	D	455
ECR-3-2400	R	3298
	E	431
	D	511
ECR-3-2700	R	4167
	E	673
	D	580
ECR-3-3000	R	5131
	E	925
	D	640



Also available other grades.

Intermediate deflections											
D (%)	0	10	20	30	40	50	60	70	80	90	**100**
R (%)	0	11	21	32	42	52	62	71	81	91	100
E (%)	0	2	4	10	18	27	39	52	67	83	100

All dimension in mm, kN or kNxm unless otherwise specified.
* (E) Energy [kNxm] and (R) Reaction [kN] values according to PIANC 2002

4. TOLERANCES

Dimension	Tolerances
General dimensions	±3% or 2mm*
Distances between fixing centres	±4mm (Non-cumulative)
Flange thickness	±15mm
Diameters of the fixing points	±5mm
Energy performance	±10%
Reaction performance	±10%

* Whichever is the greater dimension.