ECR FENFER DATA SHEET

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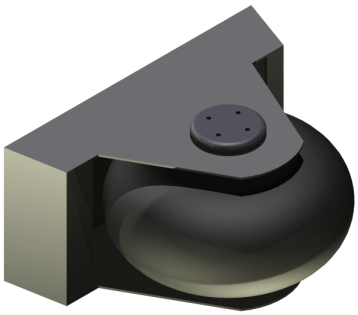
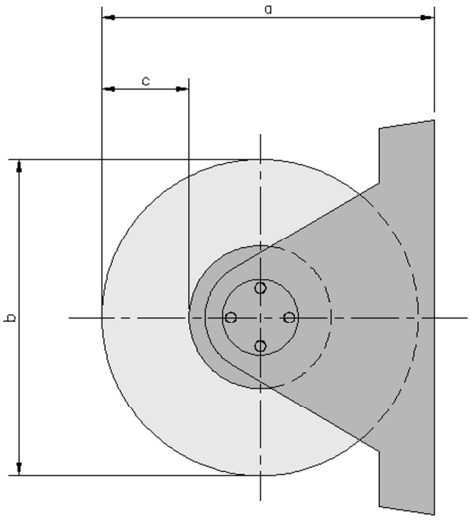
Rev.	Date	Description	Prepared by	Checked by	Approved by
0	06/03/2014	First Issue	BFA	DBL	GEB
1	14/05/2015	General Revision	BFA		GEB

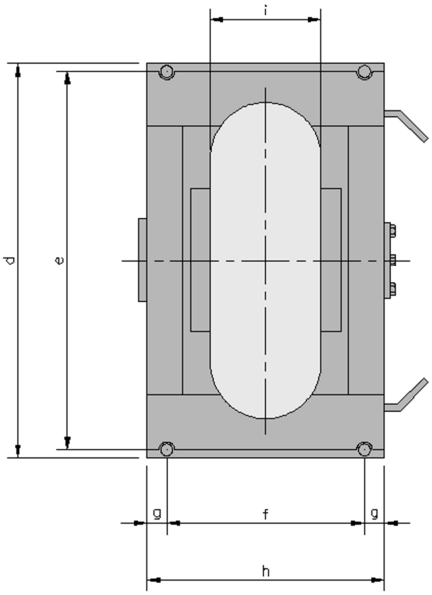
1. ECR FENDERS



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



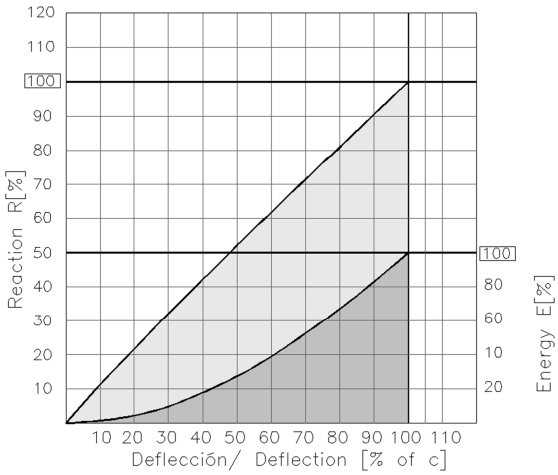


Fender	a	b	c	d	e	f	g	h	i	Weight (kg)	Nº Anchors/ Metric
ECR-600	620	600	125	695	590	340	40	420	200	163	4xM.22
ECR-750	775	750	160	870	750	430	40	510	250	390	4xM.22
ECR-900	930	900	184	1040	900	490	60	610	300	620	4xM.30
ECR-1200	1240	1200	260	1380	1250	660	80	820	400	1072	4xM.30
ECR-1500	1550	1500	324	1740	1550	810	100	1010	500	1524	4xM.36
ECR-1800	1860	1800	392	2080	1800	960	125	1210	600	1976	4xM.42
ECR-2100	2205	2100	455	2440	2200	1110	150	1410	700	2428	4xM.48
ECR-2400	2480	2400	511	2770	2500	1260	175	1610	800	2880	4xM.56
ECR-2700	2790	2700	580	3130	2900	1410	200	1810	900	3332	4xM.60
ECR-3000	3100	3000	640	3480	3200	1560	225	2010	1000	3784	4xM.64

All dimension in mm unless otherwise specified

3. NOMINAL FENDER PERFORMANCE*.

Fender		Grade A
ECR-600	R	68.5
	E	2.4
	D	125
ECR-750	R	105
	E	4.75
	D	160
ECR-900	R	155
	E	8
	D	184
ECR-1200	R	275
	E	20
	D	260
ECR-1500	R	425
	E	35.8
	D	324
ECR-1800	R	618
	E	66.5
	D	392
ECR-2100	R	835
	E	105
	D	455
ECR-2400	R	1090
	E	141
	D	511
ECR-2700	R	1400
	E	225
	D	580
ECR-3000	R	1700
	E	307
	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.