MARINE FENDERS

JETTYGUARD

JETTYGUARD

ABOUT US

JettyGuard —— Make Light Work of Protection.

Specializing in lightweight marine fender technology, Jettyguard is a vertically integrated manufacturer leveraging our dedicated factory and in-house engineering team to manage the entire supply chain. This positions us as a premier subcontractor and trusted supplier of marine fender systems and customized structural steel products.

We empower a diverse range of clients—from Oil & Gas companies and EPCC contractors to ship owners, shipyards, boat bulding firms and port authorities—to achieve consistent, high-quality deliveries, ensure full regulatory compliance, and sharpen their competitive edge.

Our comprehensive product portfolio ranges from Foam Fenders, Yokohama Type to Complete solid fender systems and Mooring Products. Jettyguard is renowned for on-time project execution and cost-effective products. The quality of our engineered solutions is designed to make our customers' operations more reliable and profitable.

- ISO 9001: 2015 Quality Management System
- ISO 14001 environmental management system
- PIANC fender type approval
- Welding procedure qualification

ENGINEERED DESIGN ACCORDING TO PIANC GUIDELINES

All marine fender design according to PIANC 2024 Guidelines by working group-211 of Marcom (the Maritime Navigation Commission).

1 .Following conditions need to be determined in order to choose a suitable fender system
1) Effective berthing energy of vessel
2) Reaction force allowed by the berthing structure
3) Maximum hull pressure the vessel can withstand
4) Position and area for the fender system to protect
5) Natural environment (including wind, current and wave, etc.)

2 .Required information
1) Vessel type: general cargo vessel, oil tank, container ship, bulk cargo carrier, ferry, cruise and workboat, etc.
2) Weight: gross tonnage, dead weight tonnage, displacement, etc.
3) Length of vessel
4) Width of vessel
5) Depth of vessel
6) Laden draft
7) Free board

3 .Berthing structure
1) Type: wharf, jetty, pier, etc.
2) Construction: pile type, gravity type
3) Elevation: top deck (plat form) level, high water level and low water level For existing quay structure, following additional information is also needed:
4) Space for fender installation at the relative elevation above sea level
5) Allowable horizontal impact force acting on the structure

4 .Natural conditions
1) Wind: direction and speed
2) Current: direction and speed
3) Wave: height, period and direction

Foam Boat Collar

Features

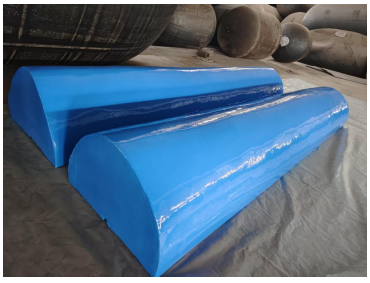
- Puncture-Proof
- Superior Buoyancy
- Impact Resistant
- Custom Engineered

Foam Collars We made







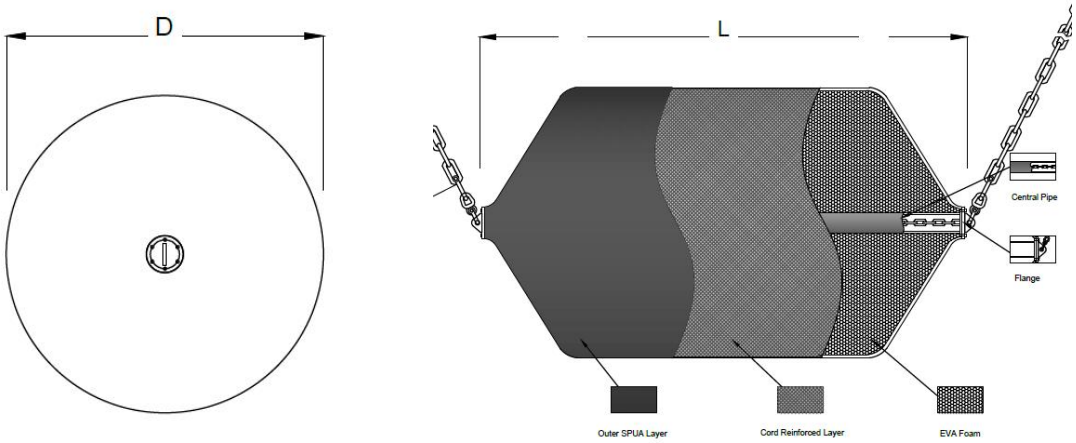




Note: Foam collar made according to project requirements.

FOAM-FILLED FENDER

Features

- The foam fender is designed based on a thermal laminated 100% closed-cell foam core and tough nylon filament-reinforced polyurethane epidermis and embedded end fittings.



Specification

Size	Outer Diameter	Length
JFF 500x1000	500	1000
JFF 600x1200	600	1200
JFF 1000x1500	1000	1500
JFF 1000x2000	1000	2000
JFF 1350x2500	1350	2500
JFF 1500x3000	1500	3000
JFF 1700x3000	1700	3000
JFF 2000x3500	2000	3500
JFF 2300x4000	2500	4000
JFF 2500x5500	2500	5500
JFF 3000x5000	3000	5000
JFF 3300x6500	3300	6500
JFF 4500x9000	3500	6000
JFF 6000x8000	4500	9000

Note: Other specification out of the series can be produced upon request.

Unit：mm

Performance

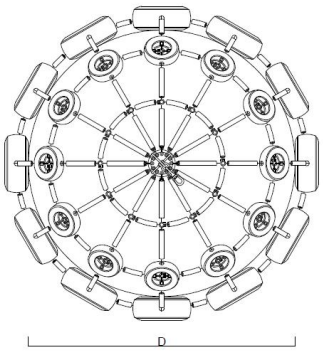
Type	Standard Performance		High Performance	
	Reaction Force(kN)	Energy Absorption(kNm)	Reaction Force(kN)	Energy Absorption(kNm)
JFF 500x1000	67	10	79	14
JFF 600x1200	89	15	116	19
JFF 1000x1500	173	47	227	61
JFF 1000x2000	254	68	329	88
JFF 1350x2500	418	152	543	197
JFF 1500x3000	596	244	774	317
JFF 1700x3000	618	282	801	366
JFF 2000x3500	845	454	1099	591
JFF 2300x4000	1088	643	1415	836
JFF 2500x5500	1516	1022	1943	1398
JFF 3000x5000	1788	1464	2326	1904
JFF 3300x6500	2731	2421	3550	3148
JFF 4500x9000	4726	4779	6533	6586
JFF 6000x8000	8139	7320	11318	9520

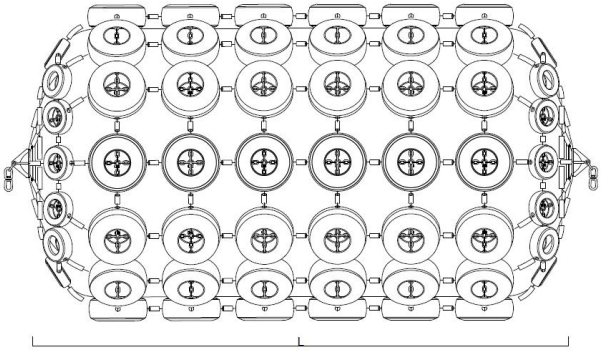
Note: Performance tolerance is ±10%.

YOKOHAMA TYPE FENDER

Features

- Yokohama type fender is the most suitable anti-collision fender for use by ships. It is filled with high-pressure air and can be easily de-breathed, allowing for simple and cost-effective relocation and re-commissioning in other locations.





Specification/Dimension

Size	Outer Diameter	Length
JYTF 500x1000	500	1000
JYTF 600x1200	600	1200
JYTF 700x1500	700	1500
JYTF 1000x1500	1000	1500
JYTF 1350x2500	1350	2500
JYTF 1500x3000	1500	3000
JYTF 1700x3000	1700	3000
JYTF 2000x3500	2000	3500
JYTF 2500x4000	2500	4000
JYTF 2500x5500	2500	5500
JYTF 3000x5000	3000	5000
JYTF 3300x6500	3300	6500
JYTF 3500x6000	3500	6000
JYTF 4500x9000	4500	9000

Unit：mm

Note: Other specification out of the series can be produced upon request.

Performance

Type	(50kPa) at 60% deflection		(80kPa) at 60% deflection	
	Reaction Force(kN)	Energy Absorption(kNm)	Reaction Force(kN)	Energy Absorption(kNm)
JYTF 500x1000	64	6	80	8
JYTF 600x1200	86	10	108	13
JYTF 700x1500	137	17	171	21
JYTF 1000x1500	181	32	266	40
JYTF 1350x2500	426	100	533	125
JYTF 1500x3000	579	153	724	191
JYTF 1700x3000	637	190	796	238
JYTF 2000x3500	875	308	1094	385
JYTF 2500x4000	1380	663	1725	829
JYTF 2500x5500	2010	932	2513	1658
JYTF 3000x5000	2030	1050	2538	1313
JYTF 3300x6500	3015	1814	3961	2534
JYTF 3500x6000	3286	2018	4018	2523
JYTF 4500x9000	5747	4752	7551	6633

Note: Performance tolerance is ±10%.

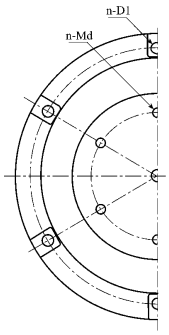
Performance

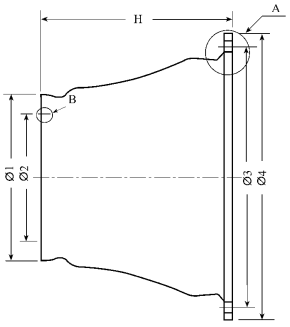
Nominal size (diameter × length mm)	Internal pressure		Minimum endurable pressure		Safety-valve pressure setting kPa	Testing pressure at 0% deflection kPa
	at 0% deflection kPa	at 60% deflection) kPa	at 0% deflection kPa	at 60% deflection kPa		
500 × 1000	50	132	300	462	-	200
600 × 1000	50	126	300	441	-	200
700 × 1500	50	135	300	473	-	200
1000 × 1500	50	122	300	427	-	200
1000 × 2000	50	132	300	462	-	200
1200 × 2000	50	126	300	441	-	200
1350 × 2500	50	130	300	455	-	200
1500 × 3000	50	132	300	462	-	200
1700 × 3000	50	128	300	448	-	200
2000 × 3500	50	128	300	448	-	200
2500 × 4000	50	137	350	480	175	250
2500 × 5500	50	148	350	518	175	250
3300 × 4500	50	130	350	455	175	250
3300 × 6500	50	146	350	511	175	250
3300 × 10600	50	158	350	553	175	250
4500 × 9000	50	146	350	511	175	250
4500 × 12000	50	154	350	539	175	250

CONE FENDER

Features

- Endure severe shear force
- Structure is more reasonable
- Can support large panels and suitable for low hull pressure vessels





Specification

Type	Specification							
	H	φ1	φ2	φ3	φ4	n	Md	D1
JCO 500	500	425	325	675	750	4	M24	30
JCO 600	600	510	390	810	900	6	M24	30
JCO 700	700	595	455	945	1050	6	M30	38
JCO 800	800	680	520	1080	1200	6	M36	44
JCO 900	900	765	585	1215	1350	6	M36	44
JCO 1000	1000	850	650	1350	1500	6	M42	50
JCO 1100	1100	935	715	1485	1650	6	M42	50
JCO 1150	1150	998	750	1550	1725	6	M42	50
JCO 1200	1200	1020	780	1620	1800	8	M42	50
JCO 1300	1300	1105	845	1755	1950	8	M48	60
JCO 1400	1400	1190	930	1890	2100	8	M48	60
JCO 1600	1600	1360	1060	2160	2400	8	M48	70
JCO 1800	1800	1530	1190	2430	2700	10	M56	76

Unit：mm

Performance

Type	70% Rated Deflection							
	Super High Reaction Force(FS)		High Reaction Force (FH)		Standard ReactionForce(FO)		Low ReactionForce(FL)	
	Reaction force	Energy absorption	Reaction force	Energy absorption	Reaction force	Energy absorption	Reaction force	Energy absorption
JCO 500	342	80.6	273	64.3	204	47.9	168	37.7
JCO 600	490	160	390	130	289	95.9	230	76.5
JCO 700	665	240	532	185	320	153	314	122
JCO 800	879	375	720	300	512	229	410	183
JCO 900	1099	504	879	407	648	312	518	260
JCO 1000	1366	682	1100	552	800	446	641	357
JCO 1100	1459	847	1169	663	946	505	816	416
JCO 1150	1799	1050	1420	900	1059	679	847	543
JCO 1200	1883	1115	1526	971	1128	719	908	571
JCO 1300	2168	1617	1739	1336	1346	1064	1148	765
JCO 1400	2300	1720	1840	1376	1472	1101	1173	877
JCO 1600	3084	2467	2313	1974	1850	1579	1446	1259
JCO 1800	3825	3609	3060	2887	2449	2309	1950	1840

Unit：mm

Type	72% Maximum Deflection							
	Super High Force(FS)		High Reaction force(FH)		Standard Reaction Force(FO)		Low Reaction Force(FL)	
	Reaction force	Energy absorption	Reaction force	Energy absorption	Reaction force	Energy absorption	Reaction force	Energy absorption
JCO 500	388	91.8	317	71.4	237	51	197	41.8
JCO 600	553	164	438	132	325	106	263	86.7
JCO 700	705	248	579	196	435	157	348	127
JCO 800	949	388	850	322	588	257	437	212
JCO 900	1213	527	976	440	717	341	569	275
JCO 1000	1537	750	1237	600	900	488	712	388
JCO 1100	1601	882	1284	695	1039	538	850	441
JCO 1150	2025	1125	1625	957	1175	731	937	600
JCO 1200	2086	1172	1698	1018	1252	754	1005	599
JCO 1300	2358	1673	1938	1387	1567	1099	1224	816
JCO 1400	2556	1791	2045	1433	1636	1147	1304	914
JCO 1600	3213	2570	2410	2056	1927	1645	1606	1311
JCO 1800	4249	3760	3400	3007	2720	2406	2168	1918

Note: Performance tolerance is ±10%.

Unit：mm

Correction factors

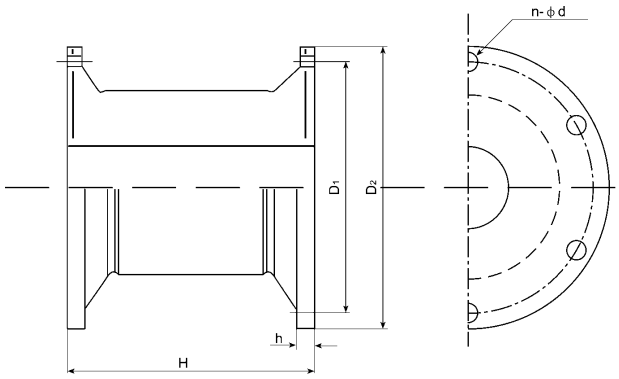
◆ The correction factors are for abnormal berthing conditions.

Angular compression factor		Temperature factor		Velocity factor	
Angle(°)	AF	Temperature(℃)	TF	Time (second)	VF
0	1.000	50	0.882	1	1.005
3	0.977	40	0.926	2	1.002
5	0.951	30	0.969	3	1.001
8	0.909	23	1.000	4	1.001
10	0.883	10	1.056	5	1.000
15	0.810	0	1.099	6	1.000
20	0.652	-10	1.143	8	1.000
		-20	1.186	≥10	1.000
		-30	1.230		

CELL FENDER

Features

- Low reaction force and high capability of energy absorption
- Applicable for ships with different sizes
- Support large panels and suitable for low hull pressure vessels



Specification

Type	Specification					
	H	D1	D2	h	Holes(n)	d
JSC 400H	400	550	650	25	4	30
JSC 500H	500	550	650	25	4	32
JSC 630H	630	700	840	30	4	39
JSC 800H	800	900	1050	30	6	40
JSC 1000H	1000	1100	1300	35	6	47
JSC 1150H	1150	1300	1500	40	6	50
JSC 1250H	1250	1450	1650	45	6	53
JSC 1450H	1450	1650	1850	47	6	61
JSC 1600H	1600	1800	2000	50	8	61
JSC 1700H	1700	1900	2100	55	8	66
JSC 2000H	2000	2000	2200	55	8	74
JSC 2250H	2250	2300	2550	60	10	74
JSC 2500H	2500	2700	2950	70	10	90
JSC 3000H	3000	3150	3350	75	12	90

Unit：mm

Note: Other specification out of the series can be produced upon request.

Performance

Type	52.5% Rated Deflection									
	Super High Reaction Force(FE)		Super High Reaction Force(FS)		High Reaction Force(FH)		Standard Reaction Force(FO)		Low Reaction Force(FL)	
	Reaction force	Energy absorption	Reaction force	Energy absorption	Reaction force	Energy absorption	Reaction force	Energy absorption	Reaction force	Energy absorption
JSC 400H	112	19.4	97.9	17.3	85	14.3	65.3	11.2	52	9.2
JSC 500H	186	40.8	165	36.7	143	30.6	110	23.5	87.7	18.4
JSC 630H	296	81.6	263	73.4	229	63.2	175	47.9	141	38.8
JSC 800H	473	166	420	148	341	128	281	97.9	215.2	76.5
JSC 1000H	752	331	668	293	578	254	445	195	356	156
JSC 1150H	995	502	882	446	765	387	590	297	471	238
JSC 1250H	1176	645	1042	572	903	496	696	382	557	305
JSC 1450H	1582	1007	1404	894	1217	775	936	597	750	477
JSC 1600H	1926	1353	1710	1201	1482	1040	1139	802	912	641
JSC 1700H	2174	1623	1930	1441	1673	1249	1287	960	1029	768
JSC 2000H	3000	2643	2671	2346	2315	2034	1781	1565	1426	1252
JSC 2250H	4228	4177	3753	3701	3252	3213	2503	2473	2127	2101
JSC 2500H	5220	5730	4634	5087	4016	4408	3089	3392	2625	2883
JSC 3000H	-	-	-	-	5801	7605	4400	5790	3751	4995

Unit：mm

Type	55% Maximum Deflection									
	Super High Reaction Force(FE)		Super High Reaction Force(FS)		High Reaction Force(FH)		Standard Reaction Force(FO)		Low Reaction Force(FL)	
	Reaction force	Energy Absorption	Reaction force	Energy absorption	Reaction force	Energy absorption	Reaction force	Energy absorption	Reaction force	Energy absorption
JSC 400H	128	21.4	114	18.4	98.9	15.3	76.5	12.2	60	9.7
JSC 500H	214	43.9	191	38.8	163	32.6	128	25.5	101	19.4
JSC 630H	315	86.7	280	77.5	242	68.3	186	51	150	40.8
JSC 800H	503	177	446	156	386	135	298	104	230	79.6
JSC 1000H	800	350	710	310	615	269	472	207	379	166
JSC 1150H	1058	531	938	472	814	409	626	315	501	252
JSC 1250H	1250	682	1109	606	961	526	740	404	593	322
JSC 1450H	1682	1066	1493	947	1294	820	996	631	797	505
JSC 1600H	2047	1433	1817	1272	1575	1102	1213	849	969	678
JSC 1700H	2311	1719	2052	1525	1778	1326	1369	1017	1095	814
JSC 2000H	3199	2798	2839	2484	2461	2153	1893	1657	1515	1325
JSC 2250H	4494	4424	3989	3925	3458	3403	2659	2617	2260	2224
JSC 2500H	5550	6068	4926	5386	4266	4668	3284	3590	2792	3052
JSC3000H	-	-	-	-	6751	7671	5201	6149	4301	5297

Note: Performance tolerance is ±10%.

Unit：mm

Correction factors

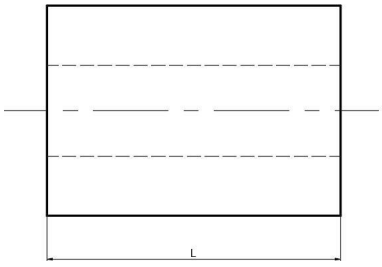
- The correction factors are for abnormal berthing conditions.

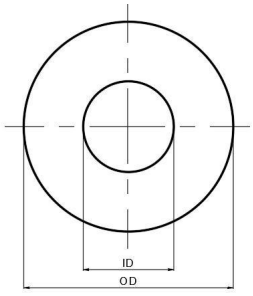
Angular compression factor		Temperature factor		Velocity factor	
Angle(°)	AF	Temperature(℃)	TF	Time(second)	VF
0	1.000	50	0.882	1	1.005
3	0.977	40	0.926	2	1.002
5	0.951	30	0.969	3	1.001
8	0.909	23	1.000	4	1.001
10	0.883	10	1.056	5	1.000
15	0.810	0	1.099	6	1.000
20	0.652	-10	1.143	8	1.000
		-20	1.186	≥10	1.000
		-30	1.230		

CYLINDRICAL FENDER

Features

- Low reaction force and hull pressure, reasonable energy absorption
- Applicable for rolling and pitching of berthing vessels
- Applicable for ships with different sizes
- Easy to install and maintain





Specification

Type	JCY 150	JCY 200	JCY 250	JCY 300	JCY 350	JCY 400	JCY 500	JCY 600	JCY 700	JCY 800	JCY 900
OD(mm)	150	200	250	300	350	400	500	600	700	800	900
ID(mm)	75	100	125	150	175	200	250	300	350	400	450
WT(kg/m)	17	41	48	70	95	124	193	278	379	495	626

Unit：mm

Type	JCY 1000	JCY 1100	JCY 1200	JCY 1300	JCY 1400	JCY 1500	JCY 1600	JCY 1700	JCY 1800	JCY 1900	JCY 2000
OD(mm)	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
ID(mm)	500	550	600	650	700	750	800	850	900	950	1000
WT(kg/m)	773	935	1102	1306	1514	1739	1978	2233	2503	2790	3091

Unit：mm

Note:Other specification out of the series can be produced upon request.

Performance

Performance Specification	50% Rated Deflection			
	Reaction Force(kN)		Energy Absorption(kNm)	
	RO Standard Type	RH High Reaction ForceType	RO Standard Type	RH High Reaction ForceType
JCY 150	45	75	1.5	2
JCY 200	61	97	2.7	4
JCY 250	77	122	4.1	6.6
JCY 300	91	146	6.1	9
JCY 350	106	170	8.2	13
JCY 400	121	195	10.2	17
JCY 500	151	244	16.3	26.5
JCY 600	183	292	24.5	27.5
JCY 700	212	341	31.6	51
JCY 800	242	391	41.8	67.3
JCY 900	273	439	53	85.7
JCY 1000	303	489	65.3	1105
JCY 1100	338	539	78.5	132
JCY 1200	370	585	96.9	155
JCY 1300	400	635	110	183
JCY 1400	430	683	131	212
JCY 1500	460	732	150	243
JCY 1600	491	792	180	288
JCY 1700	521	840	210	345
JCY 1800	552	889	252	414
JCY 1900	581	938	294	497
JCY 2000	666	1075	327	596

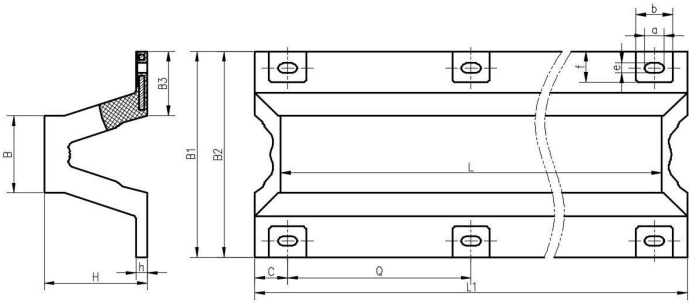
Unit：mm

Note: Performance tolerance is ±10%.

ARCH FENDER

Features

- Low reaction force and high energy absorption.
- Easy installation and convenient replacement.



Specification

Type	H	L	L1	B	B1	B2	B3	C	Q	h	a	b	e	f
JSA 150x1000	150	1000	1075	98	240	300	96	110	855	22.5	50	95	25	55
JSA 150x1500	150	1500	1575	98	240	300	96	112.5	675	22.5	50	95	25	55
JSA 150x2000	150	2000	2075	98	240	300	96	215	620	22.5	50	95	25	55
JSA 150x2500	150	2500	2575	98	240	300	96	220	785	22.5	50	95	25	55
JSA 150x3000	150	3000	3075	98	240	300	96	215	715	22.5	50	95	25	55
JSA 150x3500	150	3500	3575	98	240	300	96	220	671	22.5	50	95	25	55
JSA 200x1000	200	1000	1100	145	320	400	128	120	860	30	58	105	29	75
JSA 200x1500	200	1500	1600	145	320	400	128	120	680	30	58	105	29	75
JSA 200x2000	200	2000	2100	145	320	400	128	120	620	30	58	105	29	75
JSA 200x2500	200	2500	2600	145	320	400	128	122.5	785	30	58	105	29	75
JSA 200x3000	200	3000	3100	145	320	400	128	120	715	30	58	105	29	75
JSA 200x3500	200	3500	3600	145	320	400	128	120	672	30	58	105	29	75
JSA 250x1000	250	1000	1125	164	410	500	160	130	865	30	64	125	32	90
JSA 250x1500	250	1500	1625	164	410	500	160	132.5	680	30	64	125	32	90
JSA 250x2000	250	2000	2125	164	410	500	160	132.5	620	30	64	125	32	90

Type	H	L	L1	B	B1	B2	B3	C	Q	h	a	b	e	f
JSA 250x2500	250	2500	2625	164	410	500	160	127.5	790	30	64	125	32	90
JSA 250x3000	250	3000	3125	164	410	500	160	132.5	715	30	64	125	32	90
JSA 250x3500	250	3500	3625	164	410	500	160	130	673	30	64	125	32	90
JSA 300x1000	300	1000	1150	225	490	600	195	140	870	33	70	140	35	105
JSA 300x1500	300	1500	1650	225	490	600	195	140	685	33	70	140	35	105
JSA 300x2000	300	2000	2150	225	490	600	195	137.5	625	33	70	140	35	105
JSA 300x2500	300	2500	2650	225	490	600	195	140	790	33	70	140	35	105
JSA 300x3000	300	3000	3150	225	490	600	195	145	715	33	70	140	35	105
JSA 300x3500	300	3500	3650	225	490	600	195	140	674	33	70	140	35	105
JSA 400x1000	400	1000	1200	300	670	800	260	150	900	40	82	165	41	120
JSA 400x1500	400	1500	1700	300	670	800	260	150	700	40	82	165	41	120
JSA 400x2000	400	2000	2200	300	670	800	260	147.5	635	40	82	165	41	120
JSA 400x2500	400	2500	2700	300	670	800	260	150	800	40	82	165	41	120
JSA 400x3000	400	3000	3200	300	670	800	260	150	725	40	82	165	41	120
JSA 400x3500	400	3500	3700	300	670	800	260	150	680	40	82	165	41	120
JSA 500x1000	500	1000	1250	375	840	1000	325	160	930	45	94	180	47	140
JSA 500x1500	500	1500	1750	375	840	1000	325	160	715	45	94	180	47	140
JSA 500x2000	500	2000	2250	375	840	1000	325	157.5	645	45	94	180	47	140
JSA 500x2500	500	2500	2750	375	840	1000	325	160	810	45	94	180	47	140
JSA 500x3000	500	3000	3250	375	840	1000	325	165	730	45	94	180	47	140
JSA 500x3500	500	3500	3750	375	840	1000	325	160	686	45	94	180	47	140
JSA 600x1000	600	1000	1300	450	1010	1200	390	170	960	54	100	195	50	160
JSA 600x1500	600	1500	1800	450	1010	1200	390	170	730	54	100	195	50	160
JSA 600x2000	600	2000	2300	450	1010	1200	390	167.5	655	54	100	195	50	160
JSA 600x2500	600	2500	2800	450	1010	1200	390	170	820	54	100	195	50	160
JSA 600x3000	600	3000	3300	450	1010	1200	390	170	740	54	100	195	50	160
JSA 600x3500	600	3500	3800	450	1010	1200	390	170	692	54	100	195	50	160
JSA 800x1000	800	1000	1400	600	1340	1600	520	180	1040	72	136	270	68	260
JSA 800x1500	800	1500	1900	600	1340	1600	520	180	770	72	136	270	68	260
JSA 800x2000	800	2000	2400	600	1340	1600	520	180	680	72	136	270	68	260
JSA 800x2500	800	2500	2900	600	1340	1600	520	182.5	845	72	136	270	68	260
JSA 800x3000	800	3000	3400	600	1340	1600	520	180	760	72	136	270	68	260
JSA 1000x1000	1000	1000	1500	750	1680	2000	650	200	1100	90	136	290	68	300

Unit：mm

Note: Other specification out of the series can be produced upon request.

Performance

Performance Specification	52.5% Rated Deflection			
	Reaction Force(kN)		Energy Absorption(kNm)	
	RO Standard Type	RH High Reaction ForceType	RO Standard Type	RH High Reaction ForceType
JSA 150	87.7	147	4.1	6.1
JSA 200	114	156	8.2	11.2
JSA 250	179	216	18.8	22.8
JSA 300	209	254	25.5	31.6
JSA 400	281	339	46.9	57.1
JSA 500	351	423	73.4	89.5
JSA 600	420	508	106	129
JSA 800	561	677	189	228
JSA 1000	703	846	295	356

Unit：mm

Performance Specification	55% Rated Deflection			
	Reaction Force(kN)		Energy Absorption(kNm)	
	RO Standard Type	RH High Reaction ForceType	RO Standard Type	RH High Reaction Force Type
JSA 150	117	157	5.1	7.1
JSA 200	156	208	9.2	12.2
JSA 250	249	300	19.8	24
JSA 300	300	353	27.4	33.7
JSA 400	361	469	50	61.2
JSA 500	487	588	78.5	94.9
JSA 600	590	706	113	138
JSA 800	779	940	202	254
JSA 1000	975	1176	317	381

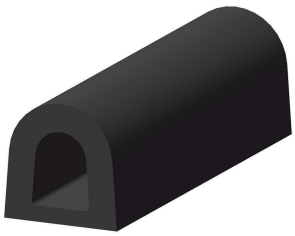
Unit：mm

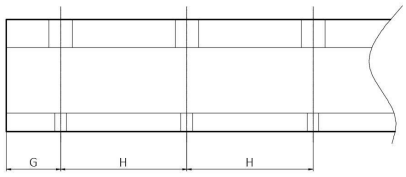
Note：Performance tolerance is ±10%.

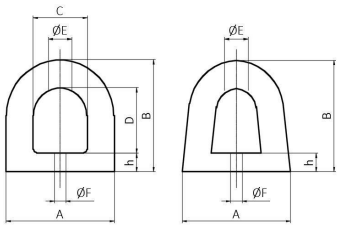
DD Fender

Features

- Easy for installation and maintenance.
- Reasonable reaction force with high energy absorption







Specification

Type	Dimensions							
	A	B	C	D	E	F	G	H
JDD 200x200	200	200	100	100	62	30	100~150	325~460
JDD 300x300	300	300	150	150	65	32	100~150	325~600
JDD 400x400	400	400	200	200	87	39	150	425~460
JDD 500x500	500	500	250	200	97	45	150	325~600

Unit：mm

Note: Other specification out of the series can be produced upon request.

Performance

Type	50% Rated Deflection	
	Reaction Force	Energy Absorption
JDD 200x200	207	8
JDD 300x300	294	12
JDD 400x400	383	20
JDD 500x500	451	31

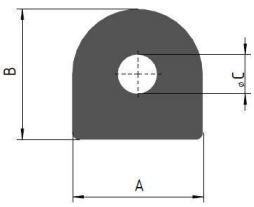
Unit：mm

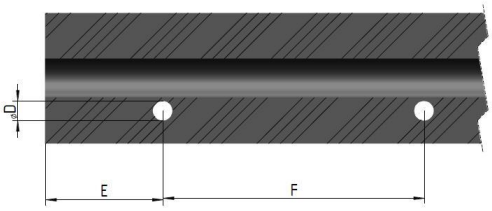
Note: Performance tolerance is ±10%

DC Fender

Features

- Unique DC Profile
- High-Abrasion Rubber
- Versatile Application





Specification

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Bolt size
100	100	30	15	90-130	200-300	M12
150	150	65	20	110-150	250-350	M16
200	200	75	25	130-180	300-400	M20
250	250	100	30	140-200	350-450	M24
300	300	125	30	140-200	350-450	M24
350	350	150	35	140-200	350-450	M30
400	400	200	35	140-200	350-450	M30
500	500	250	35	140-200	350-450	M36

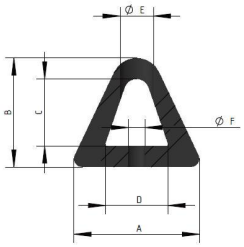
Unit：mm

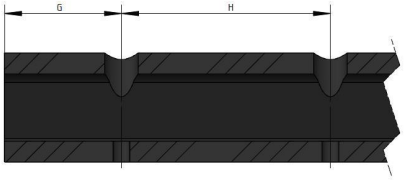
Note: Other specification out of the series can be produced upon request.

Delta Fender

Features

- Robust Delta-Profile
- Simple Installation
- Abrasion-Resistant





Specification

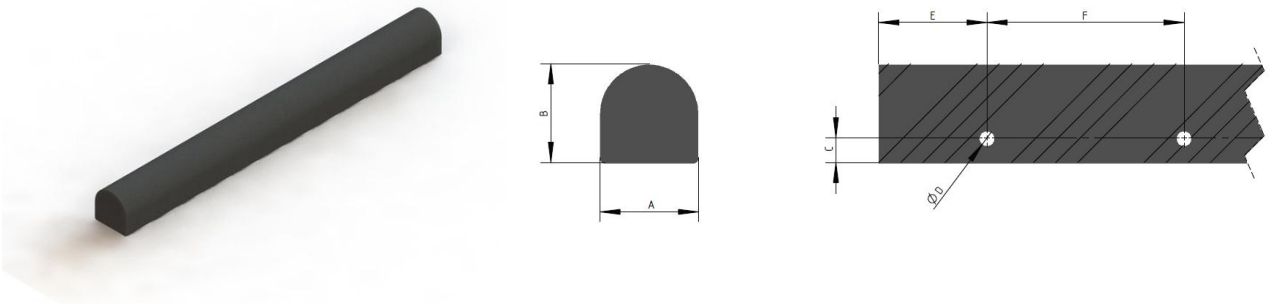
A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	Flat bar	Bolt size
60	50	40	30	20	10	70-110	150-250	15 x 3	M8
80	75	45	40	30	15	90-130	200-300	35 x 5	M12
110	100	65	68	30	15	90-130	200-300	40 x 5	M12
150	130	80	75	40	20	110-150	250-300	60 x 8	M16

Note: Other specification out of the series can be produced upon request.

Solid DS Fender

Features

- Robust solid design
- Versatile application
- Simple installation



Specification

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Bolt size
100	100	25	15	90-130	200-300	M12
150	150	30	20	110-150	250-350	M16
200	200	45	25	130-180	300-400	M20
250	250	50	30	140-200	350-450	M24
300	300	60	30	140-200	350-450	M24
350	350	70	35	140-200	350-450	M30
400	400	80	35	140-200	350-450	M30

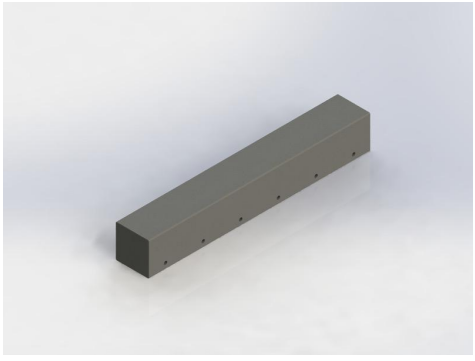
Unit：mm

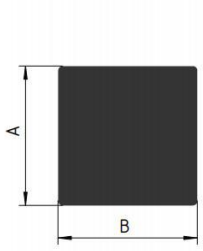
Note: Other specification out of the series can be produced upon request.

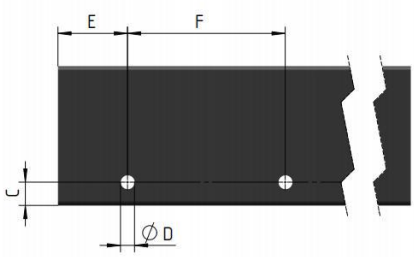
Solid Square Fender

Features

- Versatile Mounting
- Extreme Durability
- Weather Resistant







Specification

A (mm)	B (mm)	C (mm)	D (mm)	E	F	Flat bar
100	100	25	15	90–130	200–300	50 x 6
150	150	30	20	110–150	250–350	60 x 8
200	200	40	25	130–180	300–400	80 x 10
250	250	50	30	140–200	350–450	100 x 10
300	300	60	30	140–200	350–450	110 x 12
350	350	65	35	140–200	350–450	120 x 12
400	400	70	35	140–200	350–450	130 x 15

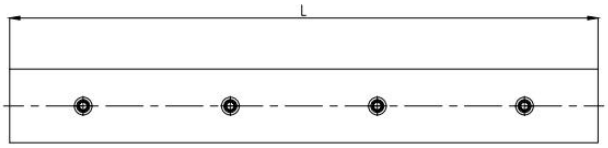
Unit：mm

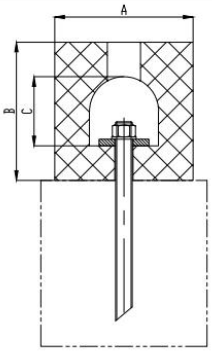
Note: Other specification out of the series can be produced upon request.

SD FENDER

Features

- Easy for installation and maintenance.
- Reasonable reaction force with high energy absorption.
- Applicable for all kinds of wharf, dry dock and shipboard





Specification

Type	Dimension(mm)				
	A	B	C	L(max.)	Reference Weight(kg/m)
JSD 150x150	150	150	75	3000	23
JSD 200x200	200	200	100	3000	40
JSD 300x300	300	300	150	3000	90
JSD 400x400	400	400	200	3000	160
JSD 500x500	500	500	250	3000	251

Unit：mm

Note: Other specification out of the series can be produced upon request.

Performance

Type	Rated Deflection	
	Reaction Force(kN)	Energy Absorption(kNm)
JSD 150x150	117	3.83
JSD 200x200	156	6.85
JSD 300x300	234	15.4
JSD 400x400	312	27.4
JSD 500x500	42.8	251

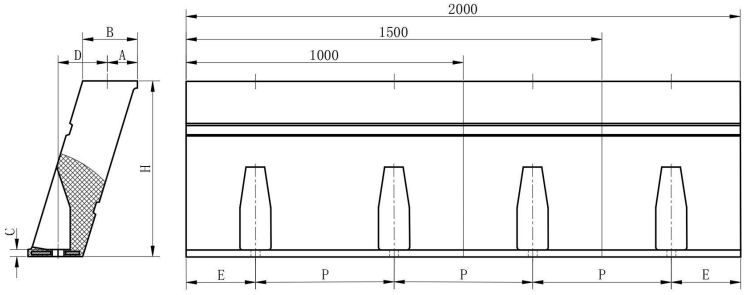
Unit：mm

Note: Performance tolerance is ±10%.

Unit Element Fender

Features

- Low reaction force and high energy absorption.
- Unit element fendercan be combined into different types and sizes of fender system upon required performance.
- Optimum performance can be achieved at perpendicular or angular compression
- Easy installation and low maintenance



Specification

Type	A	B	C	D	H	E	P
JME 300	47	94	15	94	300	250	500
JME 400	63	125	17	124	400	250	500
JME 500	87	158	20	142	500	250	500
JME 550	87	172	20	170	550	250	500
JME 600	87	188	20	199	600	250	500
JME 750	118	235	26	230	750	250	500
JME 800	129	250	26	240	800	250	500
JME 1000	162	322	31	310	1000	250	500
JME 1250	202	401	36	388	1250	250	500
JME 1450	228	454	41	454	1450	250	500
JME 1600	257	500	55	480	1600	250	500

Unit：mm

Note: Other specification out of the series can be produced upon request.

Performance

Performance Specification	57.5% Rated Deflection			
	Reaction Force(kN)		Energy Absorption(kNm)	
	RO Standard Type	RH High Reaction ForceType	RO Standard Type	RH High Reaction ForceType
JME 300	110	15	161	22
JME 400	150	27	215	39
JME 500	187	43	267	61
JME 550	206	52	294	75
JME 600	224	62	320	89
JME 750	282	96	402	137
JME 1000	374	172	534	245
JME 1250	467	268	667	383
JME 1450	543	361	775	516
JME 1600	599	440	855	628

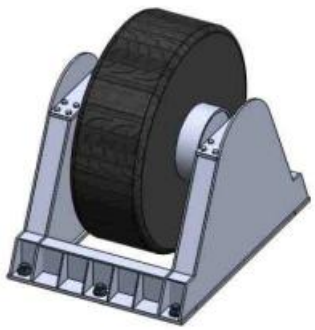
Unit：mm

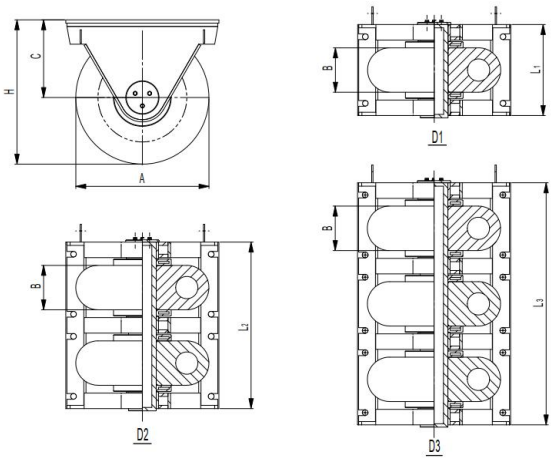
Note: Performance tolerance is ±10%.

ROLLER FENDER

Features

- Low reaction force and high energy absorption.
- Roller fender performance is free from the influence of ship inclining and berthing.
- Applicable for dry docks and other restricted channels





Specification

Type	Dimensions						
	A	B	C	H	L 1	L 2	L 3
600×200	600	200	320	620	420	770	1120
750×250	750	250	400	775	510	935	1360
900×300	900	300	480	930	610	1120	1630
1200×400	1200	400	640	1240	820	1500	2180
1500×500	1500	500	800	1550	1010	1850	2690
1800×600	1800	600	960	1860	1210	2215	3220
2100×700	2100	700	1155	2205	1410	2590	3770
2400×800	2400	800	1280	2480	1610	2950	4290
2700×900	2700	900	1440	2790	1810	-	-
3000×1000	3000	1000	1600	3100	2010	-	-

Unit：mm

Note: Other specification out of the series can be produced upon request.

Performance

Type	Max deflection	G1		G2		G3	
		Reaction Force	Energy Absorption	Reaction Force	Energy Absorption	Reaction Force	Energy Absorption
600×200	125	67	2	134	5	202	7
750×250	159	105	5	210	9	315	14
900×300	185	151	8	302	16	453	24
1200×400	260	269	19	539	39	814	58
1500×500	325	419	38	843	76	1264	113
1800×600	390	608	65	1215	130	1823	196
2100×700	455	823	102	1647	204	2470	306
2400×800	510	1108	140	2156	280	3234	420
2700×900	578	1362	220	2724	439	4087	659
3000×1000	640	1676	302	3352	604	5027	906

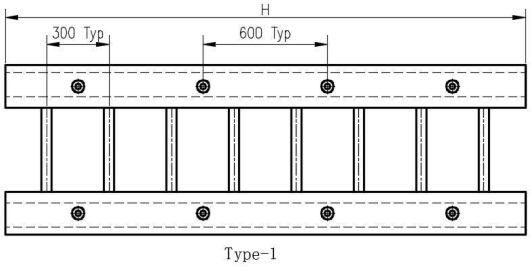
Unit：mm

Note: Performance tolerance is ±10%.

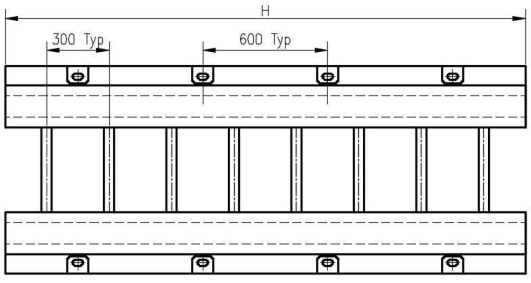
Rubber Ladder

Features

- Durable and tough with high corrosion resistance.
- Steps are anti-skid and available in various length as per requirement.
- Easy to install with low maintenance.



Type-1



Type-2

Specification

Specification	Height	Length							
200H	200H	900	1200	1500	1800	2100	2400	2700	3000
250H	250H	900	1200	1500	1800	2100	2400	2700	3000
300H	300H	900	1200	1500	1800	2100	2400	2700	3000
400H	400H	900	1200	1500	1800	2100	2400	2700	3000

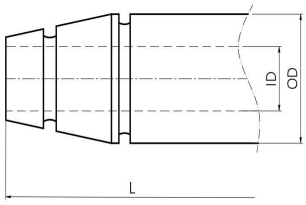
Unit：mm

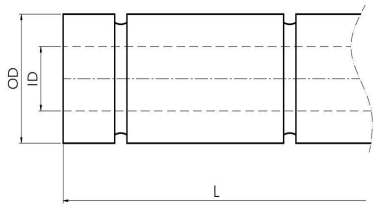
Note: Other specification out of the series can be produced upon request.

Tugboat Fender

Features

- Tugboat fenders are mainly used at various port operation tugs. Installed at bow, board and aft, JettyGuard's tugboat fenders is reasonable in structure design and advanced in production procedure which can obtain good performance, long service life and easy installation.





Specification/Dimension

Type	Outer Diameter (OD mm)	Inner Diameter (ID mm)	Length (L mm)
JTCY 300	300	100、150	3000~26000
JTCY 400	400	100、150、200	
JTCY 500	500	150、200、220、250	
JTCY 600	600	200、220、300、350	
JTCY 700	700	220、250、300、350	
JTCY 800	800	300、350、400	
JTCY 900	900	350、400、450	

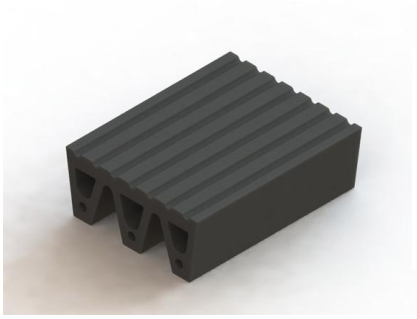
Unit：mm

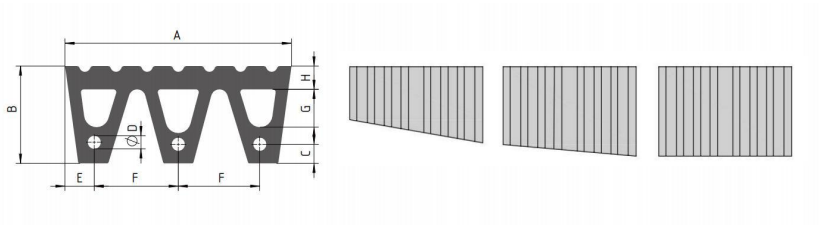
Note: Other specification out of the series can be produced upon request.

M FENDER

Features

- Superior Grip Surface
- Exceptional Durability
- Flexible M-Profile





Specification

Type	Dimensions(mm)					
	A	B	C	D	E	F
JM 400-200	400	200	40	23	50	150
JW 500-250	500	250	50	27	60	190
JW 600-300	600	300	60	33	70	230
JW 800-400	800	400	80	44	95	305

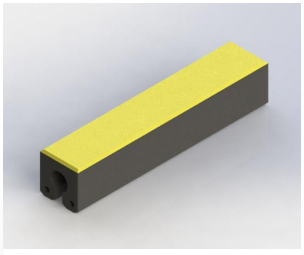
Unit：mm

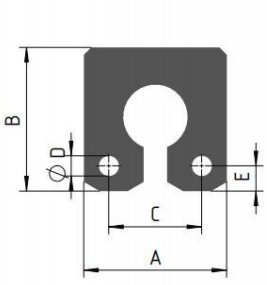
Note: Other specification out of the series can be produced upon request.

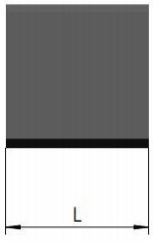
Keyhole FENDER

Features

- High energy absorption
- Superior shear action
- Durable construction







Specification

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Length max. (mm)
100	100	70	16	16	2000
200	200	130	28	35	2000
250	250	150	33	50	2000
300	300	180	33	60	2000

Unit：mm

Note: Other specification out of the series can be produced upon request.

JETTYGUARD

MARINE FENDERS

JETTYGUARD ENGINEERING TECHNOLOGY (CHONGQING) CO.,LTD.

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