

**Rane**

**ELASTOMER PROCESSORS**

An ISO 9001-2015 Company



**Ranelast**  
**DOCK FENDERS**

**MANUFACTURERS & EXPORTERS OF PRECISION RUBBER PARTS**

[www.ranelast.com](http://www.ranelast.com)



**RANE ELASTOMER PROCESSORS** an ISO 9001-2015 certified company was established 5 decades ago for the manufacturing of Precision Industrial Rubber Products. Subsequently, the company diversified into Rubber Engineering with the manufacture of **DOCK FENDERS, SILICONE RUBBER SLEEVING & TRANSPERENT TUBINGS FOR MEDICAL & PHARMA INDUSTRIES, RUBBER SHEETS, RUBBER PROFILES, GASKETS, DIAPHRAGMS, RUBBER PADS, ARCHITECHURAL PROTECTIVE RUBBER GUARDS AND SO ON** for Various Industries..

Presently RANE is manufacturing following types of Rubber Fenders **Hollow Cylindrical, Square, Rectangular, 'D' Shaped, V/W Shaped, Arch Type, M Type , Cell Type, Cone Type, Element Type, Penumatic Fender** etc.

Many of these products are also regularly exported to various countries like **GERMANY, THE NETHERLANDS, SOUTH AFRICA, MALAYSIA, SAUDI ARABIA, SRI LANKA, ISRAEL, SYRIA, TURKEY, GREECE, SINGAPORE, LITHUANIA, FRANCE, U.S.A., PANAMA & GULF COUNTRIES.**

Being member, of **NATIONAL AGENCIES LIKE AIRIA: All India Rubber Industries Association, CAPEXIL: Chemical & Allied Products Export Promotion Council, NSIC: National Small Industries Coproration Ltd.,** keeps us abreast of the technological and marketing developments all over the world, thus enabling us to keep our commitment to excellence.



- High energy absorption & low reaction force.
- Reduced stress concentration.
- Base Steel mounting pads with open legs give a wide degree of freedom during fitting.
- A wide selection of sizes and energy absorption capacities.
- Embedded Metal parts fully protected against corrosion and mechanical damage.
- If required Fender can be supplied with UHMWPE Pads on Top.

## Standard Sizes & Performance

Size (Height in mm)	Reaction Force (Tons)		Energy Absorption (Ton-M)	
	Rubber Grade			
	RE1	RE2	RE1	RE2
RA 150 H	17.5	15	0.9	0.8
RA 200 H	23.5	20.5	1.5	1.3
RA 250 H	29.5	25	2.2	2.0
RA 300 H	35	30.5	3.1	2.8
RA 400 H	46	40.5	5.5	4.8
RA 500 H	58	51	8.5	7.5
RA 600 H	70	61	12.0	10.7
RA 800 H	93	81	21.5	19.0
RA 1000 H	116	101	34.0	30.0

Tolerance : +/- 10%

Above Performance details are for 1 meter of Fender length

Rated Deflection : 50%

Other Grades of Rubber is available on request.

Length Available (in Meter) : 1.0, 1.5, 2.0, 2.5, 3.0, 3.5



- High energy absorption & low reaction force.
- Low Face Pressure.
- Reduced stress concentration.
- Long Life.
- Easy installation.
- Wide selection of sizes and energy capacities.
- Maintenance free use.
- Embedded Metal parts fully protected against corrosion and mechanical damage.



## Standard Sizes & Performance

Size (Height in mm)	Reaction Force (Tons)		Energy Absorption (Ton-M)	
	Rubber Grade			
	RE1	RE2	RE1	RE2
RA 250 H	39	31	3.2	2.5
RA 300 H	46	37	4.5	3.6
RA 400 H	61	49	8.1	6.3
RA 500 H	77	62	13.0	10.0
RA 600 H	92	74	18.5	14.0
RA 800 H	123	99	33.0	25.0
RA 1000 H	153	123	51.0	37.0

Tolerance : +/- 10%

Above Performance details are for 1 meter of fender length

Rated Deflection : 52.50%

Other Grades of Rubber is available on request.

Length Available (in Meter) : 1.0, 1.5, 2.0, 2.5, 3.0, 3.5



- Economical design.
- Reduced stress concentration.
- Better performance even during critical angular berthing.
- Reduced space requirement for fitting.
- Convenient to fix large size frontal pad to cover high tidal variations.



## Standard Sizes & Performance

Size (Height in mm)	Rated Reaction Force (Tons)		Rated Energy Absorption (Ton-M)	
	Rubber Grade			
	RE1	RE2	RE1	RE2
RA 400 H	11	10	1.8	1.6
RA 500 H	19	17	3.7	3.3
RA 630 H	30	26	7.2	6.4
RA 800 H	47	42	14.5	13
RA 1000 H	75	67	33	30
RA 1150 H	100	88	50	45
RA 1250 H	118	104	65	57
RA 1450 H	158	140	101	89
RA 1600 H	193	171	136	120
RA 1700 H	217	193	162	144
RA 2000 H	300	267	320	235
RA 2250 H	423	375	418	370
RA 2500 H	523	463	574	509
RA 3000 H	580	440	671	511

Tolerance : +/- 10%

Rated Defelction : 47.50% for Fender Size RC 400 H to RC 800 H

Rated Defelction : 52.50% for Fender Size RC 1000 H to RC 3000 H

Other Grades of Rubber is available on request.



# Cone Fenders

- High Energy Low reaction.
- Better Stability under various loading.
- Easy and quick to install.
- Fender can be combined in various combinations.

## Standard Sizes & Performance

Size (Height in mm)	Rated Reaction Force (Tons)		Rated Energy Absorption (Ton-M)	
	Rubber Grade			
	RE1	RE2	RE1	RE2
RCN 300 H	11	10	1.6	1.5
RCN 350 H	20	18	3.9	3.5
RCN 400 H	32	29	7.5	6.8
RCN 500 H	30	26	7.2	6.4
RCN 550 H	39	35	10	9
RCN 600 H	44	10	13	12
RCN 700 H	63	57	23	21
RCN 800 H	82	75	34	31
RCN 900 H	104	95	48	43.5
RCN 1000 H	128	117	67	61
RCN 1050 H	141	129	76.5	69.5
RCN 1100 H	154	140	88	80
RCN 1200 H	185	167	114	103.5
RCN 1300 H	217	196	145	132
RCN 1400 H	251	228	181	165
RCN 1600 H	328	297	271	247
RCN 1800 H	414	378	387	352

Tolerance : +/- 10%

Rated Defelction : 72%

Performance Values are for Single Fender

Other Grades of Rubber is available on request.





- High Energy Low reaction.
- Excellent Shear Resistance.
- Fender Shield can be bolted from Front.
- Elements can be combined in various combinations
- Easy and quick to install.

## Standard Sizes & Performance

Size (Height in mm)	Rated Reaction Force (Tons)		Rated Energy Absorption (Ton-M)	
	Rubber Grade			
	RE1	RE2	RE1	RE2
REL 250 H	16.0	15.0	1.6	14.5
REL 300 H	20.0	18.0	24.0	22.0
REL 400 H	24.0	22.0	4.5	4.0
REL 500 H	30.0	27.0	6.9	6.3
REL 550 H	32.0	30.0	8.4	7.6
REL 600 H	35.0	31.5	9.5	8.5
REL 700 H	41.0	38.0	13.0	12.5
REL 750 H	45.0	40.0	15.0	14.0
REL 800 H	47.0	43.0	17.0	16.0
REL 900 H	53.0	48.0	22.0	20.0
REL 1000 H	59.0	53.0	27.0	25.0
REL 1200 H	71.0	64.0	39.0	35.0
REL 1400 H	82.0	75.0	53.0	48.0
REL 1600 H	94.0	85.0	70.0	69.0

Tolerance : +/- 10%

Rated Deflection : 52.5%

Performance Values are for Single Element of 1 Mtr Length  
Other Grades of Rubber is available on request.

Points :

High Energy Low reaction

Excellent Shear Resistance

Fender Shield can be bolted from Front

Easy and quick to install

Elements can be combined in various combinations







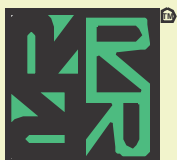
# Cylindrical Fenders

- Simple in construction and easy for handling installation
- Wide degree of freedom against steamer's rolling & pitching
- Maintenance free service

Sizes available from  
150mm OD x 75 ID to  
2000mm OD x 1000mm ID







## Tug Boat / Work Boat Fenders

- Effectively absorbs shock energy during berthing
- Capable of operating under high face pressure generated due to strong pushing exerted by ship
- Protects both the work boat & the slip from possible damage
- Eliminates sparks avoiding metal to metal contacts and thereby ensures safe berthing of ships.

Sizes available from 100mm Height x 100mm width



## Pneumatic Fenders

- Low energy, Low reaction force.
- Adoptable to curved hull surface & angle berthing.
- Simple to Install & can be moved to various locations
- Single unit can cover full tidal variations.

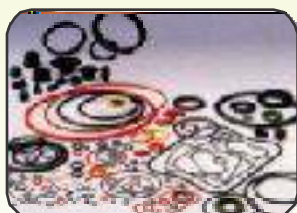




- RANE guarantees that all products are manufactured as per customer's requirements / specifications.
- RANE has an internal Quality Control System that follows each order during manufacturing process.
- RANE guarantees high standards & performance of all products.
- RANE assures strict control on Procurement, Products, Calibration, Testing
- RANE welcomes inspection by it's customer's Quality assurance departments and agencies like I.R.S., S.G.S., Bureau Veritas, Lloydes Register etc. as and when required by customer.



## Other Products







## **Ranelast** **DOCK FENDERS**

**MANUFACTURERS & EXPORTERS OF  
PRECISION RUBBER PARTS**

### **OFFICE:**

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