



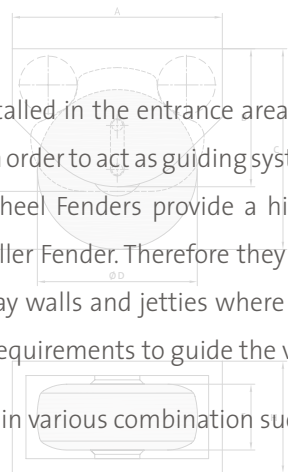
WHEEL FENDERS

Wheel Fenders are typically installed in the entrance areas of locks, dry docks and other narrow or exposed areas in order to act as guiding systems. Due to their design using additional backrollers, Wheel Fenders provide a higher energy absorption than the simple constructed Roller Fender. Therefore they are also used to protect sharp corners or recesses in quay walls and jetties where the need for energy absorption is combined with the requirements to guide the vessel.

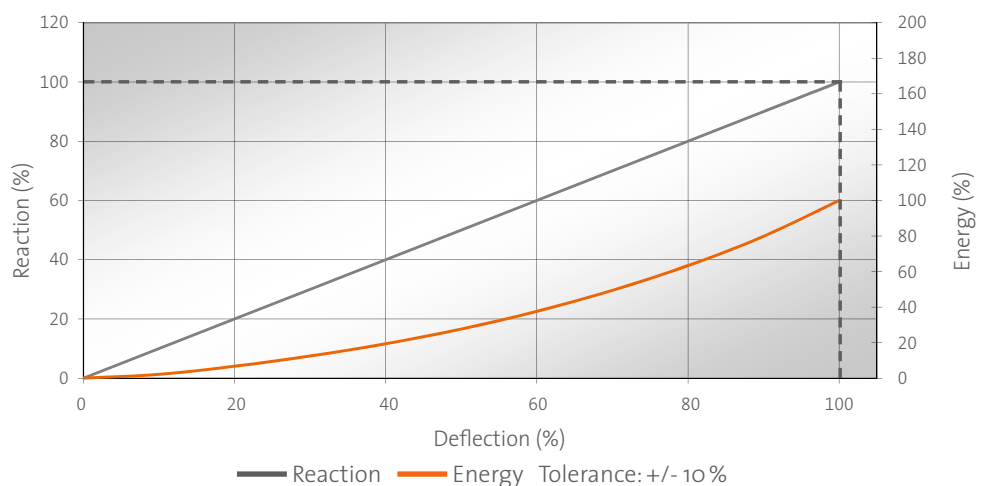
Wheel Fenders can be installed in various combination such as

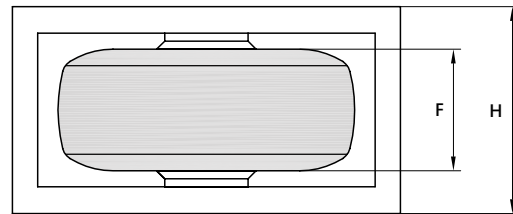
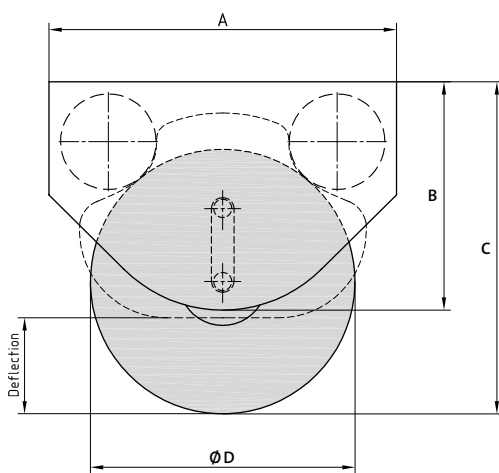
- ▶ Stacked double or triple fender to cover larger heights in tidal areas
- ▶ Side by side to guide the vessel through a narrow passage
- ▶ Installed with an angle to cater for flare angles in the vessel hull

Selection of the appropriate type, size and casing is dependant on the specific project requirements. Despite standard tyre and roller dimensions, each fender is a tailored system. Please contact us for assistance.



GENERIC PERFORMANCE CURVE WHEEL FENDERS





WHEEL FENDER DIMENSIONS

Fender Size	A [mm]	B [mm]	C [mm]	Ø D [mm]	H [mm]	F [mm]
WF 110 x 45	1700	1000	1450	1080	900	460
WF 130 x 50	2000	1200	1750	1300	1000	510
WF 175 x 70	2650	1500	2200	1750	1150	690
WF 200 x 75	2750	1750	2550	1980	1250	760
WF 250 x 100	3350	2200	3200	2550	1600	970
WF 290 x 110	4200	2500	3750	2900	1700	1020

Above mentioned dimensions are indicative and may change during final design process. Tolerance +/- 10%

WHEEL FENDER PERFORMANCE

Fender Size	Energy [kJ]	Reaction [kN]	Deflection [mm]	Pressure [bar]
WF 110 x 45	33	150	400	5.5
WF 130 x 50	61	220	500	3.5
WF 175 x 70	100	315	600	4.8
WF 200 x 75	220	590	700	5.5
WF 250 x 100	440	920	925	5.5
WF 290 x 110	880	1300	1200	5.8

Above mentioned dimensions are indicative and may change during final design process. Tolerance +/- 10%