

# Hand-ee-Cleat<sup>®</sup> Working Loads



Hand Hold  
300 lbs.



Cleat  
650 lbs.

## American Boat and Yacht Council (ABYC) Horizontal Wind Load (lbs.)

Wind Speed	Boat Length								ABYC Name
	20 ft.	25 ft.	30 ft.	35 ft.	40 ft.	50 ft.	60 ft.	70 ft.	
15 kts.	90	123	175	225	300	400	500	675	Lunch Hook
30 kts.	360	490	700	900	1,200	1,600	2,000	2,700	Working
42 kts.	720	980	1,400	1,800	2,400	3,200	4,000	5,400	Storm

### Notes:

- (1) Working load is based on testing performed at an independent lab and is rated at 50% of breaking strength.
- (2) This is not a “guaranteed” working load as it will vary with wind, current, wave action, and your particular mooring conditions.
- (3) ABYC Wind Load table Includes safety factor of 3 compared to wind drag calculations to account for wave action, current, etc.
- (4) Like all marine equipment, the condition and application of Hand-ee-Cleat<sup>®</sup> should be monitored regularly.

# Hand-ee-Cleat® Working Load Example

How many Hand-ee-Cleats® does it take to secure a “typical” 40’ boat in 30 knot winds?

- Cleat working load = 650 lbs.
- ABYC Horizontal Wind Load (from table) = 1,200 lbs.

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- Two Hand-ee-Cleats® should secure the boat assuming an evenly distributed load. However, normal mooring practices recommend a minimum of three lines – bow, stern, and a spring line.
- Results will vary based on wind, current, wave action, and your particular mooring conditions.
- Like all marine equipment, the condition and application of a Hand-ee-Cleat® should be monitored regularly.