

# HARKEN®

## INSTALLATION SHEET

### Crossover Blocks: 1981, 1984

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**Strictly follow all instructions to avoid an accident, damage to your vessel, personal injury or death. See [www.harken.com](http://www.harken.com) for additional safety information.**

The 1981/1984 crossover blocks are designed for mounting behind stoppers to allow halyards/control lines to be led to a winch mounted on either side of cabin house. The large base spreads load to prevent damage to cored decks while the efficient high-load sheave eliminates friction with highly loaded lines. The 1984 is ideal for boats to 38' (11.5 m) while the 1981 is suitable for use on boats as large as 48' (15 m).

Part No.	Deck thickness		Max line Ø		Weight inc. fasteners		Maximum working load		Breaking load	
	max	min	in	mm	oz	g	lb	kg	lb	kg
1984	.750	.313	3/8	10	4.2	119	2000	907	4000	1814
1981	1.000	.375	7/16	12	8	227	3000	1361	6000	2721

## IMPORTANT: CHECK SIZING

Use following chart to check application of block based on line turning angle. Size block to greatest anticipated angle.

Part No.	Maximum Working Load		Maximum line load to produce maximum working load of block							
	lb	kg	90°		60°		45°		30°	
	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
1984	2000	907	1414	641	2000	907	2632	1194	3846	1746
1981	3000	1361	2122	963	3000	1361	3947	1790	5769	2617

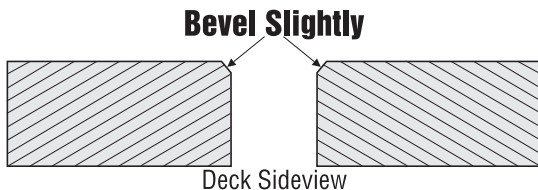
## Install Block

Drill hole to install: **1984:** 1" (25.4 mm);

**1981:** 1 $\frac{3}{8}$ " (35 mm).

Coat inside of hole with epoxy or resin to prevent moisture absorption in core or between laminates. Let cure before installation.

**Tip:** Put slight bevel at top of hole to allow sealant to mass around upper part of hole.



Install block using sealant in hole. Also apply sealant to circular groove on underside of base. Use Blue Loctite® (provided) on threads.

## Maintenance

Harken equipment requires minimal maintenance, but some is required to give the best service and to comply with Harken's limited warranty.

It is important to keep equipment clean by frequently flushing with fresh water. In corrosive atmospheres, stainless parts may show discoloration around holes, rivets and screws. This is not serious and may be removed with a fine abrasive.

With the exception of winches, do not use grease unless specifically recommended in the instruction sheets.

**Important:** Exposure to some teak cleaners and other caustic solutions can result in discoloration of part and is not covered under the Harken warranty.

## Warranty

For additional safety, maintenance and warranty information see [www.harken.com](http://www.harken.com) or the Harken® catalog.