

Attention: \_\_\_\_\_

From: \_\_\_\_\_

Fax #: \_\_\_\_\_

PA Insert Quote or Job Number: \_\_\_\_\_

Customer: \_\_\_\_\_

Project: \_\_\_\_\_

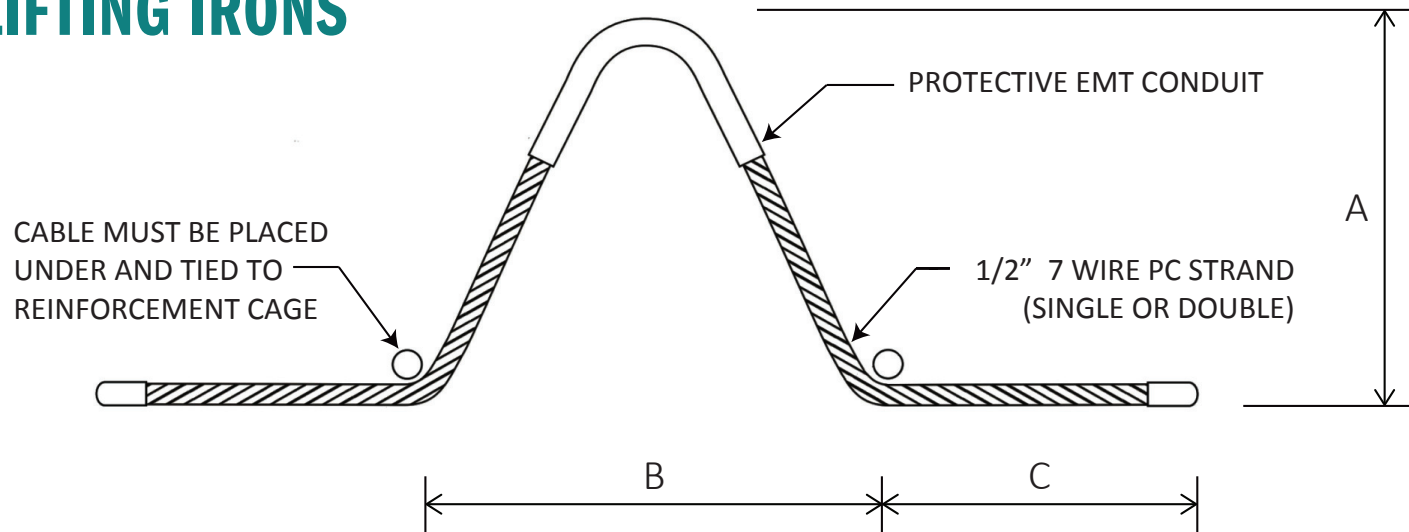
Job Number: \_\_\_\_\_

Ship Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

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## DIMENSIONS & SPECIFICATIONS TYPE I STRAND LIFTING IRONS



ITEM	DIMENSIONS (in)			CAPACITY * (lbs)	SINGLE/ DOUBLE
	A	B	C		
1003	9.5	10	8	9,800	S
8682	10	13	8	9,800	S
8683	12.5	15.5	8	9,800	S
8684	15.5	18	8	9,800	S
8685	26	13	9	19,600	D

CAPACITIES LISTED ABOVE ARE FOR 4,000 PSI CONCRETE

\* The load capacities of low relaxation prestressing strand are established and well known. Per OSHA 1926.704, cable lifting irons are rated with a 5:1 factor of safety. PAI cable lifting irons vary in lengths & shaped to accommodate the geometry of various precast products. The shape and embedment depth of the lifting iron & compressive strength of the concrete determines the capacity of each lifter. Lifting plans should take into consideration the weight, center of gravity, number of lifters, and rigging to ensure lifters are not overstressed and the weight evenly. Failure of cable lifting irons is almost always from pull out from the concrete and not failure of the cable itself. Products should not be shock loaded or used in any other way that those prescribed in this manual. Please note that the capacities of the lifters are fully developed at 4000 psi and should be de-rated if being used when concrete strengths are between 2500 and 4000 psi.

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## DIMENSIONS & SPECIFICATIONS TYPE II STRAND LIFTING IRONS

\* The load capacities of low relaxation prestressing strand are established and well known. Per OSHA 1926.704, cable lifting irons are rated with a 5:1 factor of safety. PAI cable lifting irons vary in lengths & shaped to accommodate the geometry of various precast products. The shape and embedment depth of the lifting iron & compressive strength of the concrete determines the capacity of each lifter. Lifting plans should take into consideration the weight, center of gravity, number of lifters, and rigging to ensure lifters are not overstressed and the weight evenly. Failure of cable lifting irons is almost always from pull out from the concrete and not failure of the cable itself. Products should not be shock loaded or used in any other way that those prescribed in this manual. Please note that the capacities of the lifters are fully developed at 4000 psi and should be de-rated if being used when concrete strengths are between 2500 and 4000 psi.

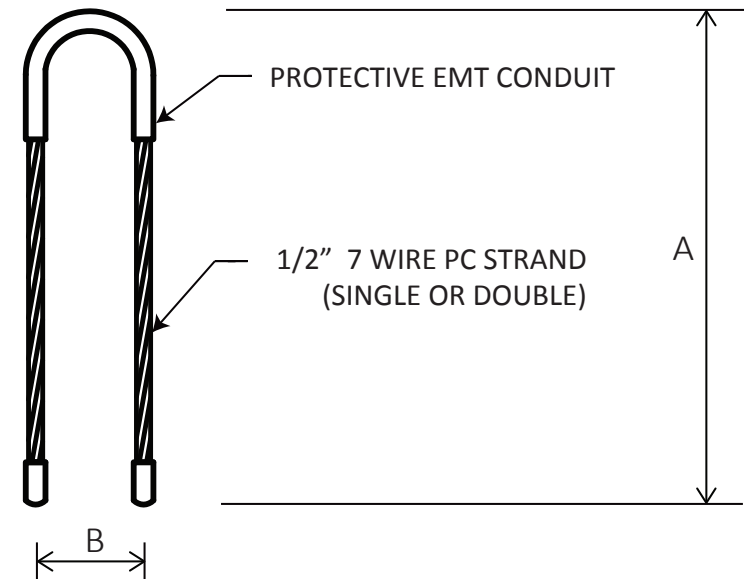
ITEM	DIMENSIONS (in)		CAPACITY * (lbs)	SINGLE/ DOUBLE
	A	B		
8699	24	3	9,800	S
8700	30	4	9,800	S
8701	30	4	19,600	D
8702	36	4	19,600	D

CAPACITIES LISTED ABOVE ARE FOR 4,000 PSI CONCRETE

SIDE VIEW



FRONT VIEW



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Project: \_\_\_\_\_

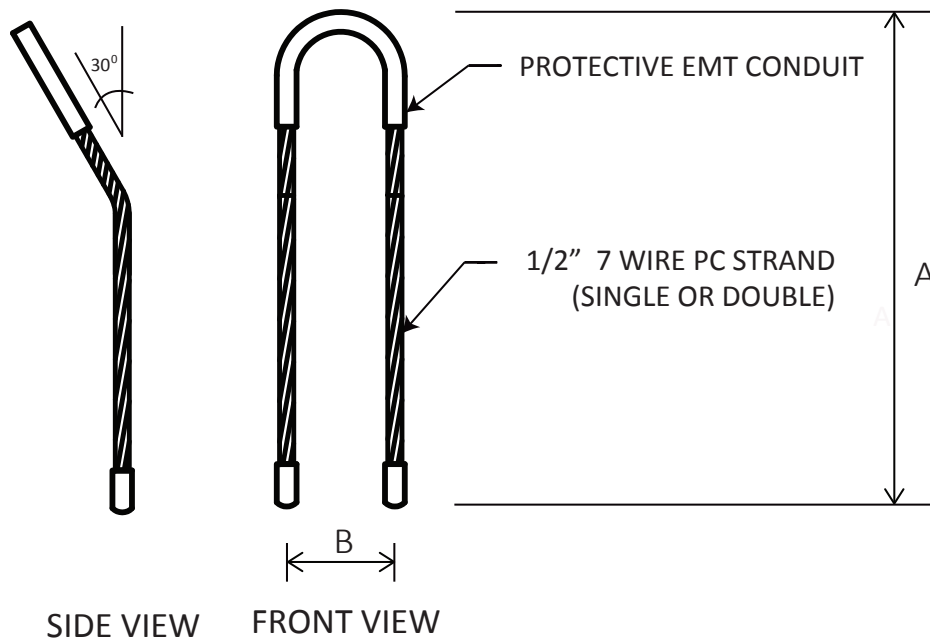
Job Number: \_\_\_\_\_

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Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

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## DIMENSIONS & SPECIFICATIONS TYPE III STRAND LIFTING IRONS



ITEM	DIMENSIONS (in)		CAPACITY * (lbs)	SINGLE/DOUBLE
	A	B		
8695	24	3	9,800	S
8696	30	4	9,800	S
8697	30	4	19,600	D
8698	36	4	19,600	D

### CAPACITIES LISTED ABOVE ARE FOR 4,000 PSI CONCRETE

\* The load capacities of low relaxation prestressing strand are established and well known. Per OSHA 1926.704, cable lifting irons are rated with a 5:1 factor of safety. PAI cable lifting irons vary in lengths & shaped to accommodate the geometry of various precast products. The shape and embedment depth of the lifting iron & compressive strength of the concrete determines the capacity of each lifter. Lifting plans should take into consideration the weight, center of gravity, number of lifters, and rigging to ensure lifters are not overstressed and the weight evenly. Failure of cable lifting irons is almost always from pull out from the concrete and not failure of the cable itself. Products should not be shock loaded or used in any other way that those prescribed in this manual. Please note that the capacities of the lifters are fully developed at 4000 psi and should be de-rated if being used when concrete strengths are between 2500 and 4000 psi.

# STRAND LIFTING IRONS

## Installation Instructions

- MANY STANDARDS SIZES
- FABRICATED FROM HIGH STRENGTH, 7-WIRE PC STRAND
- AVAILABLE IN CUSTOM SHAPES
- 3/8" DIAMETER SINGLE: 4,000 lb CAPACITY
- 1/2" DIAMETER SINGLE: 9,800 lb CAPACITY
- 1/2" DIAMETER DOUBLE: 9,600 lb CAPACITY
- LIFTING WEAR SURFACE PROTECTED WITH EMT STEEL TUBING
- NO NEED FOR SPECIAL LIFTING HARDWARE, HOOK FRIENDLY



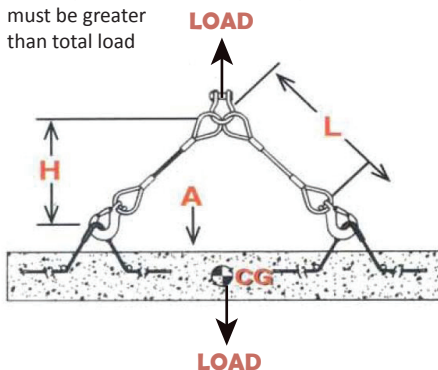
Pennsylvania Insert Corporation's Lifting products are to be used by qualified personnel only. Misuse can lead to serious accidents or deaths. Any application other than the intended application must be tested prior to use. The user of Pennsylvania Insert Corporation's Lifting products is responsible for evaluating product placement in the structure and determining the safe working load. The safe working load on each lifting product must not be exceeded. All lifting product designs have been tested to failure to determine the safe working load. Test results are available upon request.

## RIGGING INFORMATION

It is recommended that all loads be rigged symmetric with the load center of gravity such that all slings equally share the load

### Angled Sling Orientation For Symmetric Loading

Working load limit of central component must be greater than total load



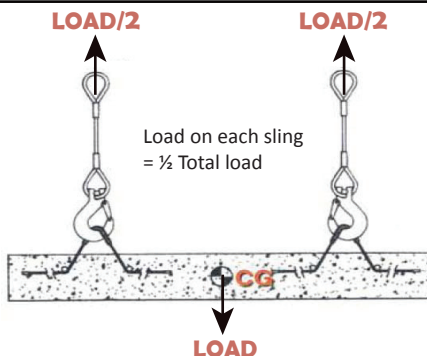
Load on each sling  
= Vertical share of load x load angle factor

Horizontal Sling Angle "A" (Degrees)	Load Angle Factor (L/H)
90	1.000
60	1.155
50	1.305
45	1.414
30	2.000

Horizontal Sling Angles of less than 30 degrees are not recommended as per ANSI B30.9

Avoid shock loading while lifting

### Vertical Sling Orientation For Symmetric Loading



Horizontal Sling Angles of less than 30 degrees are not recommended as per ANSI B30.9