



**TUFTIP WORKS LIKE MAGIC**

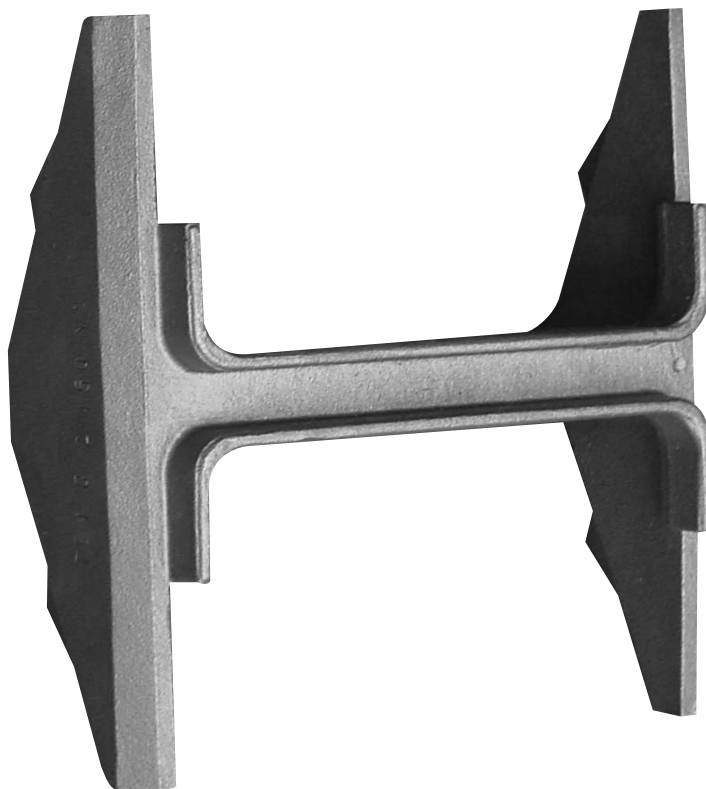
# **TUFTIP™ TUFLOY™ PREBEVELED H-POINTS**

*Reduce Risk and  
Cost With DFP  
Advanced  
Technology*



**TUFLOY  
90KSI TENSILE  
60KSI YIELD**

**DFP**  
**Foundation Products, LLC**



**TUFTIP™**  
**TUFLOY™**  
**PREBEVELED**  
**H-PILE**  
**POINTS**

**The Competitive Edge TUFTIP Works For You**

***TUFTIP WELDPREPED™...***

is designed to require only the optimum groove weld for every size pile. It minimizes pile turning and all field work for a lower total installed cost.

***TUFTIP POINTS...***

are higher quality cast steel and better formed – at competitive prices.

***TUFTIP POINTS...***

have integrally cast “teeth” – originated and patented by Dougherty for assured penetration and toe hold on rock at an angle.

***DFP TUFLOY...***

use a specified controlled chemistry to produce tough, weldable castings.

***DFP TUFLOY...***

has 90,000 psi tensile; 60,000 psi yield strength.

***DFP PERSONNEL...***

have the most experience with point protection in the industry – testing, observing and producing the best accessories for driven piles.

***DFP HIGH PRODUCTION...***

capability assures prompt delivery of any pile accessory anywhere.

***DFP...***

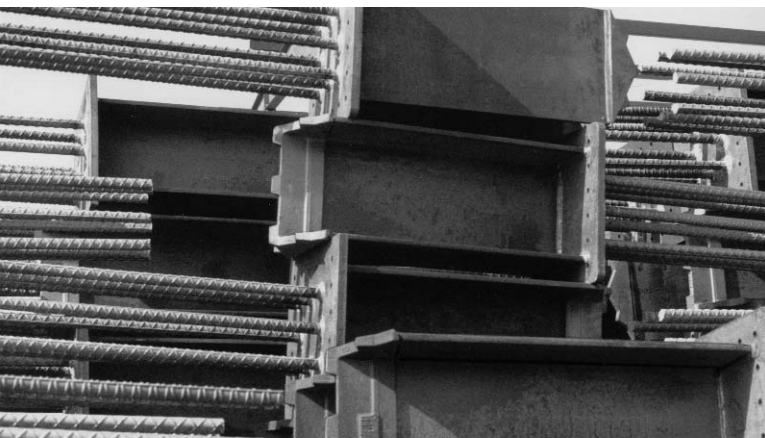
puts the heat identification numbers on each casting for traceability and supplies certification of materials on request.

***FINALLY DFP IS KNOWN FOR...***

Fast – dependable – professional services, with delivery you can depend on.

***NAME DFP TUFTIP...***

in your specification to assure the most dependable pile protection at lowest bid price.



H stub with DFP TUFTIP H-777 provides protection for precast concrete piles and penetrates where the large area concrete cannot. DFP can deliver the fabricated unit – with epoxy coated bars if necessary.



DFP TUFTIP points are weldpreped, prebeveled, at contact of flanges of the H for low-cost groove weld and secure attachment.



DFP TUFTIP points from tufloy have integrally cast “teeth” to penetrate obstructions and secure bearing on rock, even at an angle to axis of the pile.

## ADVANCED TECHNOLOGY

- **REDUCES RISK**
- **REDUCES COST**
- **ASSURES AVAILABILITY**

The DFP Foundation Products TUFTIP H-777 point protection for H piles has maximum penetration ability and provides most dependable support for structures. Tuftip points are an advance over all other H-points. They are weldpreped, prebeveled, at contact surface for the flanges of the H to assure a smooth, proper size weld. The single pass 5/16 to 3/8 in. weld fills in under the H for full load transfer.

TUFTIP point protectors are cast from tufloy a new formulation that exceeds in every way ASTM A 148 90/60. It betters the often permitted A 27 65/35 by 70% over the yield strength and 40% above the ultimate.

Cast steel is superior to other metals for point protection. It is isotropic with strength properties uniform in all directions. (Structural steel is less strong at any angle to the direction of rolling.)

DFP TUFTIP points from tufloy best transmit hammer impact. They protect the vulnerable corners of the flanges. They tie web and flange of the H into a strong unit.

TUFLOY casting process produces an accurate uniform casting with smooth surfaces for fast weld attachment. TUFLOY limits carbon for excellent weldability.

TUFLOY casting process is a high speed automated manufacturing process for fast on-time delivery.

The rugged cutting teeth of DFP's TUFTIP H-777 improve the piles ability to break through obstructions. They firmly bite into underlying strata; they are of special value when the bearing layer is at an angle to the axis of the pile. Rock is almost never flat.

DFP point protection is low cost, high value insurance for every pile drive.

*Reduce risk & cost with DFP advanced technology.*

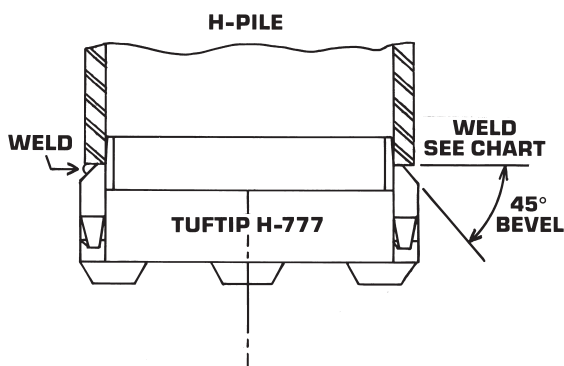
# GET IN THE TUFTIP WELDPREPED GROOVE

Prebeveled H points mean no weld preparation in the field for a fast, more economical installation.

## TUFTIP WORKS LIKE MAGIC

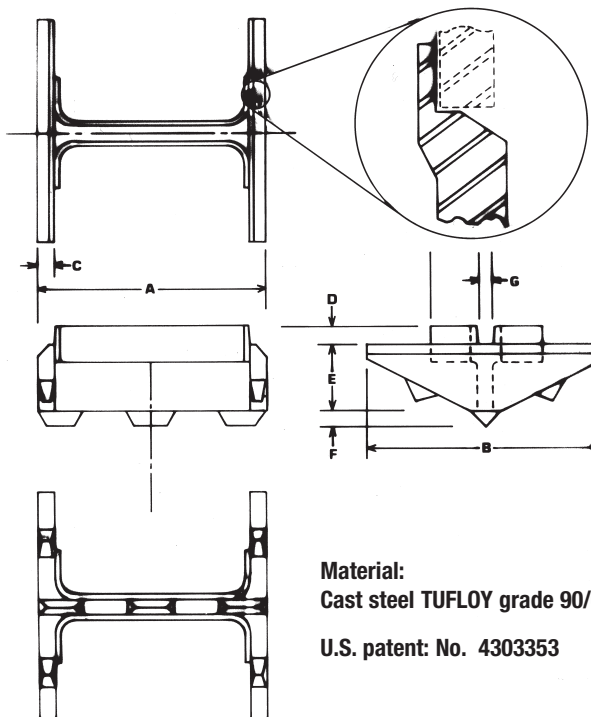
1. Fit point onto **square cut** pile.
2. Weld point to the pile in either flat or vertical position, using E70XX electrodes.
3. Fill the area across both flanges with weld following chart below for minimum weld size.

**Note:** If squirt welder is used, use AWS-E70-T-G (Lincoln NR 311) flux core wire.



Pile Size	Flange Thickness in inches	Min. Size Groove Weld in inches
HP 14 x 117	.805	7/16
	.705	3/8
	.615	3/8
	.505	5/16
HP 12 x 84	.685	3/8
	.610	3/8
	.515	5/16
	.435	5/16
HP 10 x 57	.565	5/16
	.420	5/16

## SPECIFICATIONS



Material:  
Cast steel TUFLOY grade 90/60  
U.S. patent: No. 4303353

	10"	12"	14"
A	10	12 1/8	14 1/4
B	10 1/4	12 1/4	14 7/8
C	11/16	3/4	1
D	3/4	1	1
E	3	3 1/2	4
F	11/16	3/4	1
G	3/4	25/32	1



**Foundation Products, LLC**

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