



**HOWMET  
AEROSPACE**

# **Huck® FloorTight®**

Easy to Install  
Blind Rivet Designed for  
Plywood and Plymetal  
Floor Applications



# The Huck® FloorTight®

Easy to install Blind Rivet Designed for Plywood and Plymetal Floor Applications

All systems go. A self-countersinking fastener designed especially for vehicle floor installations.



In plywood and plymetal vehicle floor applications, you need a fastener that's strong, vibration-resistant and watertight. Just as importantly, you want a fastening system that's designed to reduce installation costs. ***In a big way.***

Introducing the Huck® FloorTight fastener, from Howmet Fastening Systems (HFS), the revolutionary new fastener that performs impressively from the word go.

#### **The benefits of a blind fastener are easy to see.**

Huck FloorTight fasteners mean one-man, one-sided installation, which cuts your labor costs in half, adding up to huge savings. Not only does the FloorTight fastener go a long way, so does your manufacturing dollar.

#### **Self-countersinking feature.**

Here's the great news. The FloorTight fastener eliminates the counterboring process in plywood, and the dimpling process in plymetal. Just drill a straight hole and the FloorTight fastener sinks perfectly. You now have an extremely strong fastener installed with one less step.

#### **Get a grip on it. Large grip range eliminates the guesswork.**

The FloorTight fastening system accommodates material thickness ranging from .750 to 1.625 inches. And what's more, our fasteners offer high clamp, high tensile and high shear strength, which eliminates shifting and buckling of your floor.

#### **Watertight. Because rust never sleeps.**

Unlike ordinary nuts and bolts, the FloorTight fastener is watertight on the blind side, preventing moisture from entering through the body of the installed fastener.

#### **Superior performance, time after time.**

When it comes to holding power, FloorTight never gives up. Its design eliminates overtorque, head poppers and loosening common in conventional floor screws.

#### **Easy removal, no damage.**

The FloorTight system provides easy fastener removal for quick access under the floor panel. Panels are not damaged upon removal and can easily be refastened.

#### **Easy on the ears...and the environment.**

All Huck fasteners use quiet, non-torque tools for lower noise in the plant. And health risks are reduced because operator muscles and joints are not subjected to the constant torque of power tools.

#### **Strong support.**

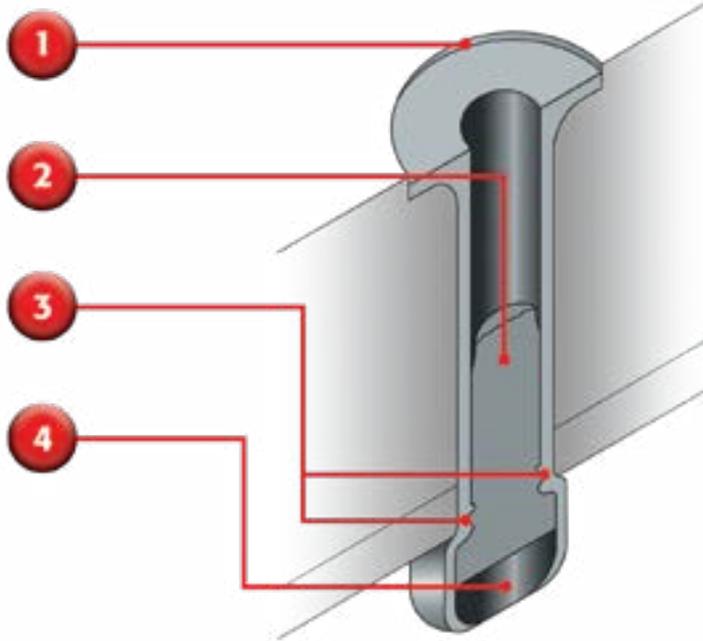
HFS's skilled and knowledgeable technicians are ready and waiting with valuable consultation evaluation, installation assistance, and in-depth staff training. No other fastening company can match this level of premium, value-added support.

Self-countersinking head eliminates the counterboring process in plywood, as well as dimpling in plymetal floors.

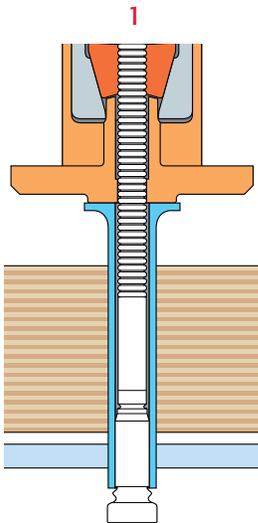
A high-strength pin locks in place within the shear plane for added holding power and durability.

360° internal locking feature creates a solid mechanical lock to prevent loosening.

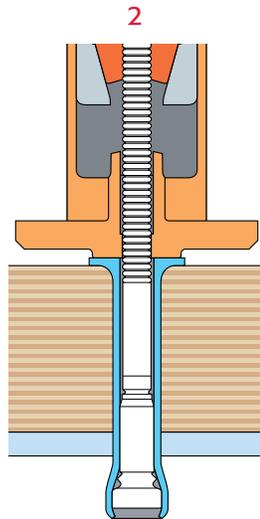
Expansion within the weather-side stringer, coupled with the 360° internal lock provides excellent moisture resistance on the weather side.



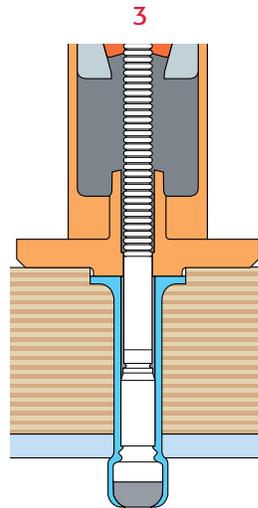
## Installation Sequence



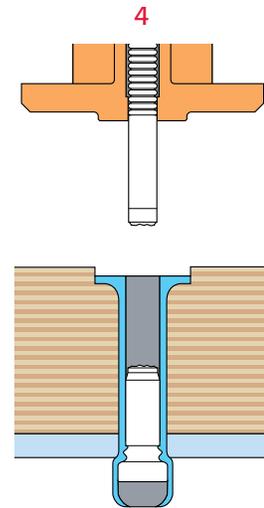
Insert fastener in hole.  
Apply installation tool.



The nose assembly (orange), attached to Huck's installation tool, is placed over the pintail (white). When the trigger is pressed, the nose assembly jaws (red) pull on the pintail, drawing the pin through the sleeve, causing the blind side sleeve to expand, partially setting the sleeve in the top sheet and pulling out all the sheet gap.

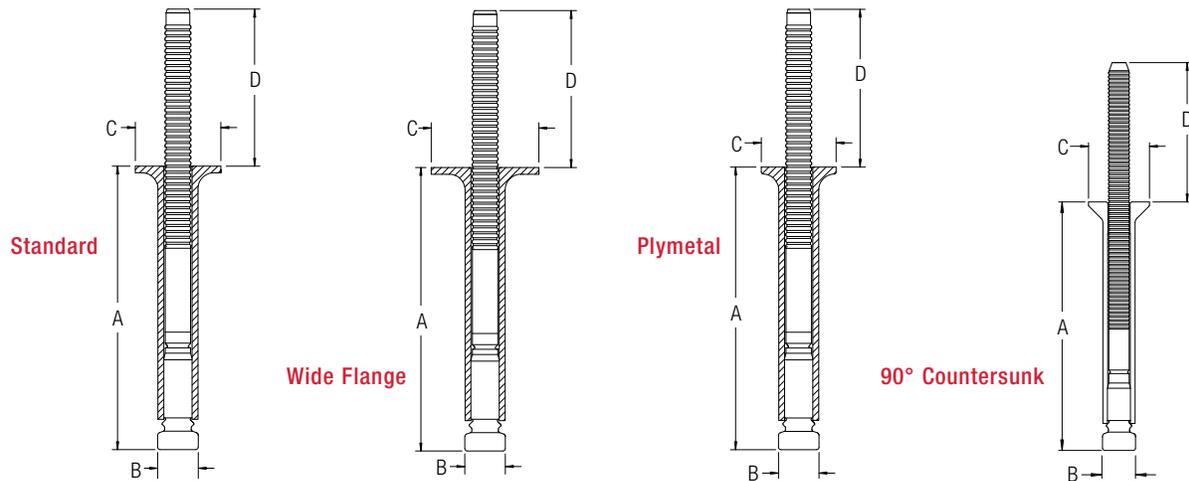


Continued pulling on the pintail forms a mechanical lock between the pin and sleeve end. The anvil on the installation tool then countersinks the fastener head into the top of the material to a preset depth set by the anvil. The anvil's large bearing face then prevents further travel of the sleeve head into the top material.



The pin is then separated in tension at the break neck groove.

# Grip Data and Dimensions



## Plywood Fastener - Standard Head

Diameter	Part No.	Grip Range	A max	B max	C min	D min	Compression
8 (1/4)	PWF-R8-20	.750-1.375	2.000	0.260	0.610	1.100	High
10 (5/16)	PWF-R10-20 <sup>1</sup>	.750-1.375	2.125	0.325	0.650	1.000	High
	PWF-R10-26 <sup>1</sup>	.750-1.625	2.500	0.325	0.650	1.000	High
	PWFMC-R10-20	.750-1.375	2.125	0.325	0.650	1.000	Medium
	PWFMC-R10-X24	1.150-1.625	2.500	0.325	0.650	1.000	Medium
	PWFMC-R10-26	.750-1.625	2.500	0.325	0.650	1.000	Medium
	PWFMC-R10-20	.750-1.375	2.125	0.325	0.650	1.000	Low <sup>2</sup>

FloorTight fasteners may be available with a stainless steel sleeve. Please see manufacturer for details.

<sup>1</sup> For use in more dense plywood <sup>2</sup> Low-compression fasteners will not self-countersink for a flush installation.

## Plywood Fastener - Wide Flange

Diameter	Part No.	Grip Range	A max	B max	C min	D min	Clamp
10 (5/16)	PFWF-R10-20	.750-1.375	2.125	0.325	0.850	1.000	Standard
	PFWFLC-R10-20	.750-1.375	2.125	0.325	0.850	1.000	Low <sup>2</sup>

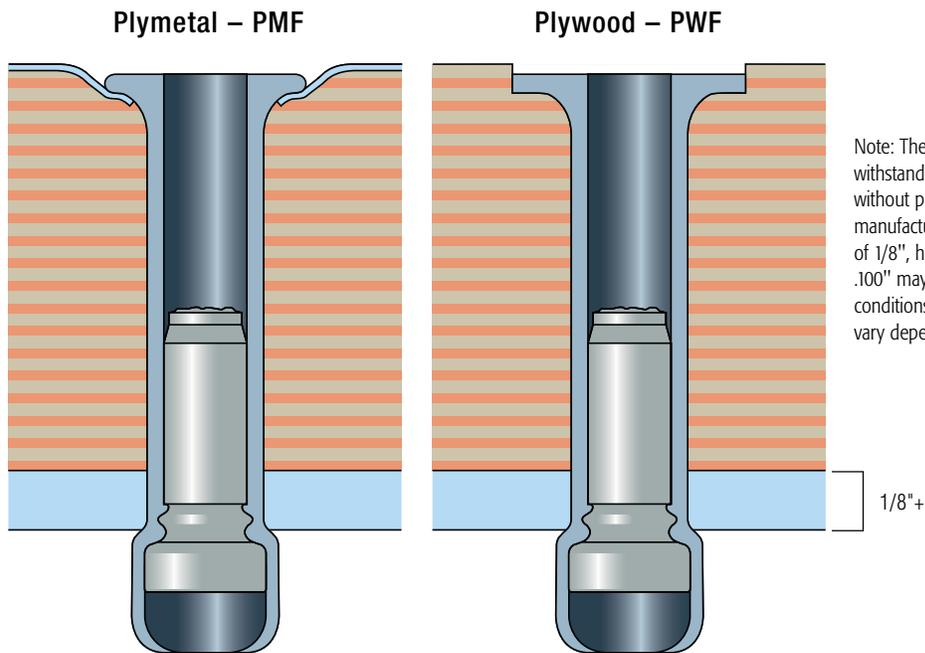
## Plymetal Fastener

Diameter	Part No.	Grip Range	A max	B max	C min	D min	Clamp
10 (5/16)	PMF-R10-20	.750-1.375	2.125	0.325	0.590	1.000	Standard
	PMF-R10-26	.750-1.625	2.500	0.325	0.590	1.000	Standard
	PMFMC-R10-20	.750-1.375	2.125	0.325	0.590	1.000	Medium

## 90° Countersunk Head

Diameter	Part No.	Grip Range	A max	B max	C min	D min	Clamp
8 (1/4)	PWF90-R8-20 <sup>3</sup>	.750-1.375	2.000	0.260	0.465	1.100	High

<sup>3</sup> For use in more dense plywood or plymetal



### Installed Fastener Values (Typical)

Diameter	Fastener	Tensile	Shear*	Pin Retention
8 (1/4)	PWF	2400	4000	200
	PWF90	2400	4000	200
10 (5/16)	PWF	3000	4300	500
	PWFW	3000	4300	500
	PWFMFC	3000	4300	200
	PWFLC	2800	4300	200
	PWFWLC	2800	4300	200
	PMF	3000	4300	500
	PMFMC	3000	4300	200

\* With pin in shear plane

### Hole Preparation Data

Diameter	Minimum	Maximum	Recommended
8 (1/4)	.261	.272	.266 (H Drill)
10 (5/16)	.328	.339	.332 (Q Drill)

### Material, Finish and Lubrication

	Material	Finish	Lubrication
Sleeve	Steel	Zinc electroplate with gold chromate	Dy film
Pin	Steel	Black	Wax film

# Huck FloorTight® Ordering Information

Follow the form below to construct a part number for ordering Huck Floortight fasteners. Refer to the Grip Data chart for grip numbers. (FASTENER TYPE) (HEAD STYLE) (COMPRESSION LEVEL) - (MATERIAL) (DIAMETER) - (GRIP NUMBER)  
 Example: **PWFWLC-R10-20** is a *Plywood fastener, Wide Flange, Low Compression, Steel, 5/16" Diameter.*

Fastener Type		Head Style		Compression		Material		Diameter		Grip Number
Plywood	PWF	Wide Flange	W	Medium	MC	Steel	R	1/4	8	Please refer to the fasteners data chart
Plywood	PMF	90° Countersunk	90	Low	LC			5/16	10	

## Installation Tools

		Air Driven		Hydraulic
Tool Model		255 see note p.7	256	2580
Nose Assembly	1/4"	99-3441	99-3441	99-3441
	5/16"	99-3452	99-3452	99-3452

## Huck Installation Tooling

Huck installation tools consist of a nose assembly and a tool. The choice of tool and nose assembly is determined by the fastener diameter and application. Tools and nose assemblies are easily changed as installation requirements demand. Huck offers air driven and hydraulic installation tools. Air driven tools operate on 90 - 100 psi air pressure. The lighter weight hydraulic tools operate on hydraulic power supplied by a Huck POWERIG® hydraulic unit.

## POWERIG® Hydraulic Units

Huck hydraulic units provide pressurized hydraulic fluid for installation tools. The Model 940 is a mid-sized unit designed for production and repair applications. For more demanding production choose the Model 918, it can power up to three tools with no performance loss. Both of these units are electrically powered. Hose kits are available in lengths of 12' to 52'.

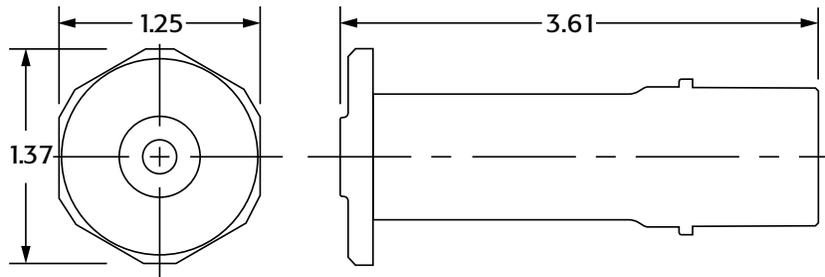


Model 940

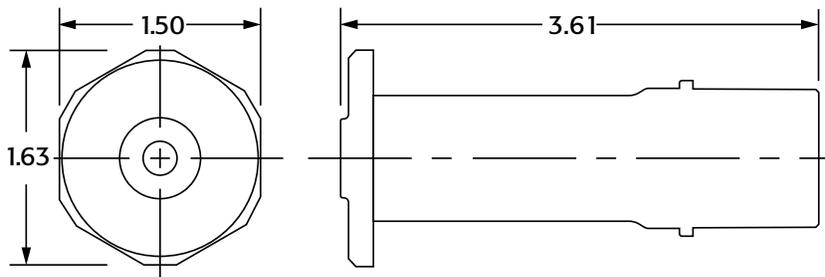


Model 918

# Nose Assembly Data



**99-3452**



## Tool Specifications



Model 255 Air Driven <small>See note below*</small>	
Weight	8.8 lbs.
Length	7.1"
Height	14.9"
Width	4.6"

\* 625" stroke may be insufficient for some applications



Model 256 Air Driven	
Weight	12.30 lbs.
Length	8.37"
Height	4.63"
Width	2.25"



Model 2580 Hydraulic	
Weight	6.6 lbs.
Length	8.4"
Height	6.5"
Width	2.2"



**HOWMET  
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# Howmet Fastening Systems

## Industrial Division Brands



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