



ARCONIC

Huck® FloorTight®

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



The Huck® FloorTight®

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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 Arconic Fastening Systems and Rings (AFSR), 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.

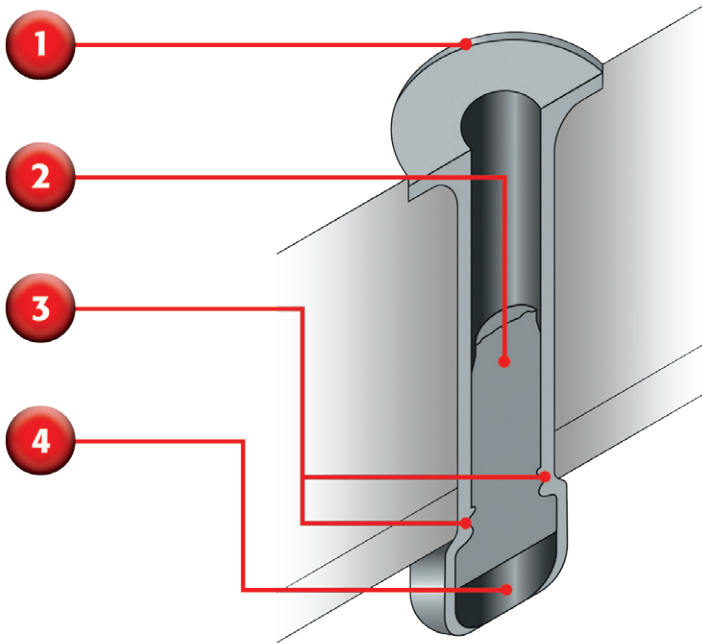
AFSR's skilled and knowledgeable technicians are ready and waiting with valuable consultation evaluation, installation assistance, and in-depth staff training. No other fastening company can match this level of premium, value-added support.

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

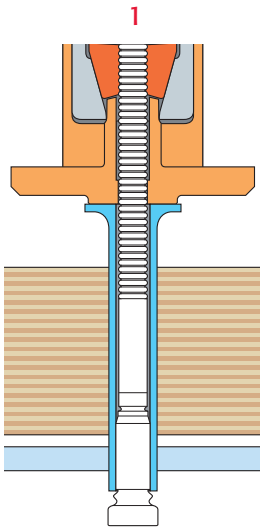
A high-strength pin locks in place within the shear plane for added holding power and durability.

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

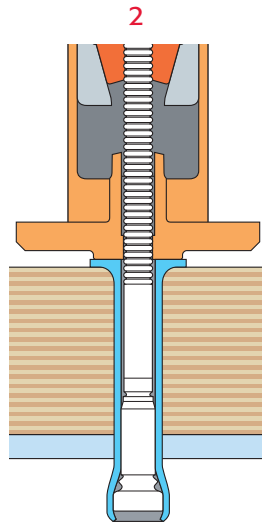
Expansion within the weather-side stringer, coupled with the 360° internal lock provides excellent moisture resistance on the weather side.



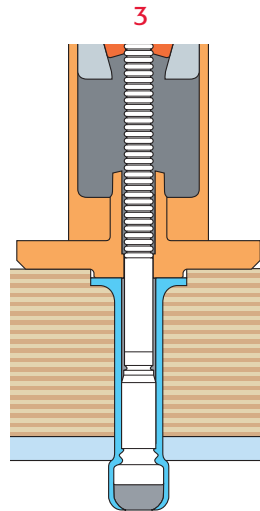
Installation Sequence



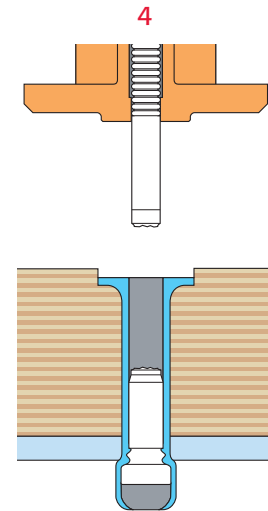
Insert fastener in hole.
Apply installation tool.



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.

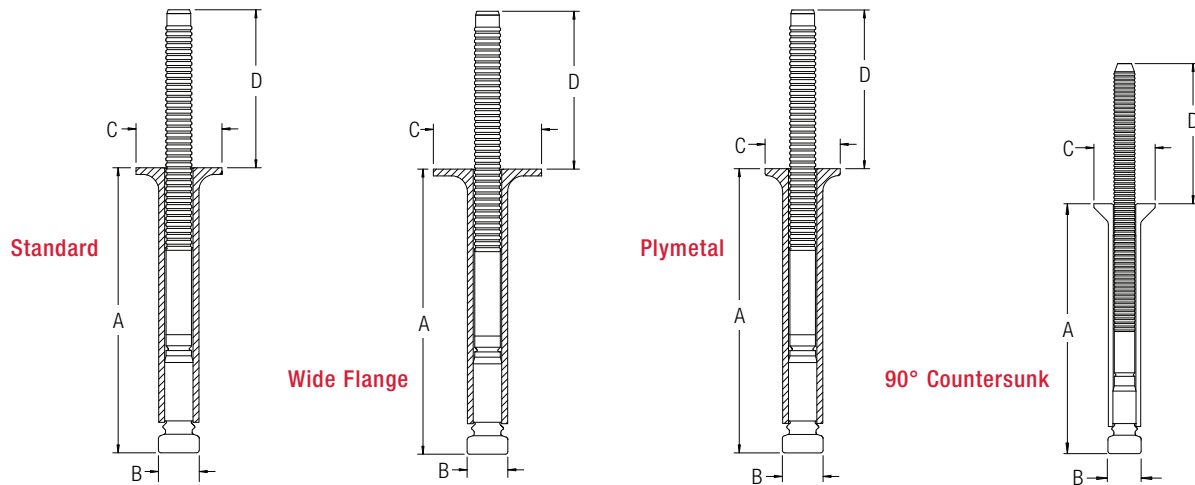


Continued pulling on the pintail forms a mechanical lock between the pin and sleeve end. The anvil on the installation tool then countersinks the fastener head into the top of the material to a preset depth set by the anvil. The anvil's large bearing face then prevents further travel of the sleeve head 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 ¹ | .750-1.375 | 2.125 | 0.325 | 0.650 | 1.000 | High |
| | PWF-R10-26 ¹ | .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 ² |

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

¹ For use in more dense plywood ² 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 ² |

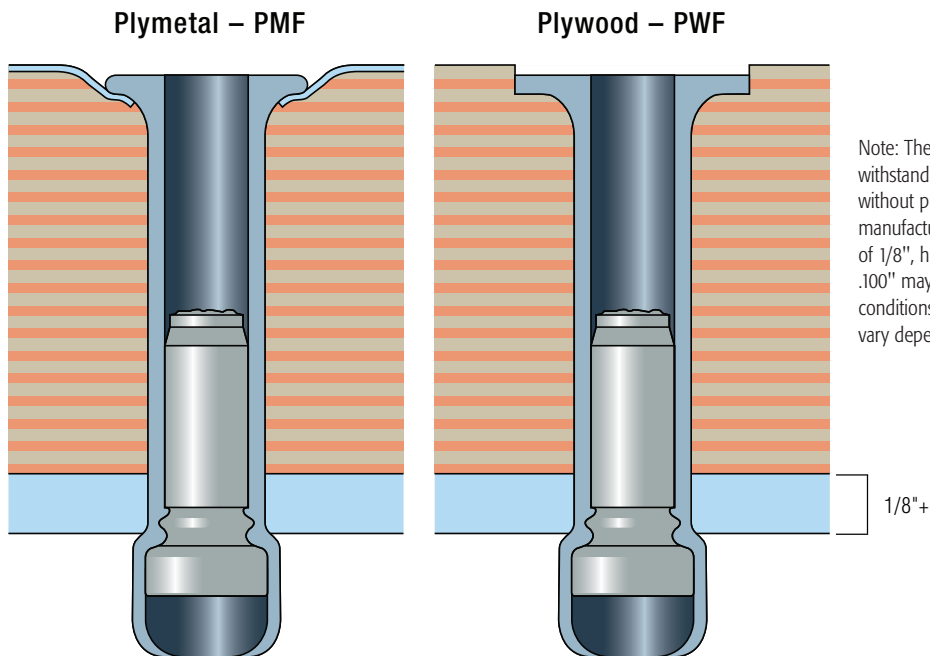
Plymetal Fastener

| 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 ³ | .750-1.375 | 2.000 | 0.260 | 0.465 | 1.100 | High |

³ 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 |
| | PFWF | 3000 | 4300 | 500 |
| | PWFMC | 3000 | 4300 | 200 |
| | PWFLC | 2800 | 4300 | 200 |
| | PFWWLC | 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'.

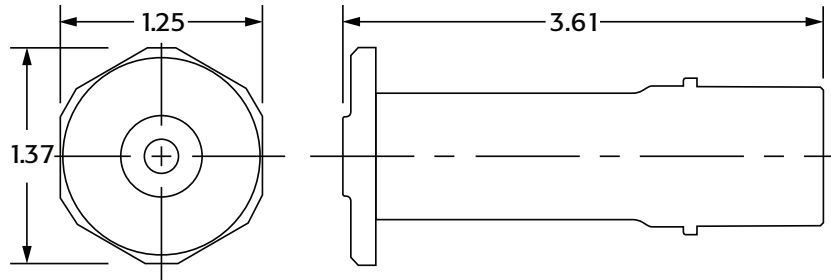


Model 940

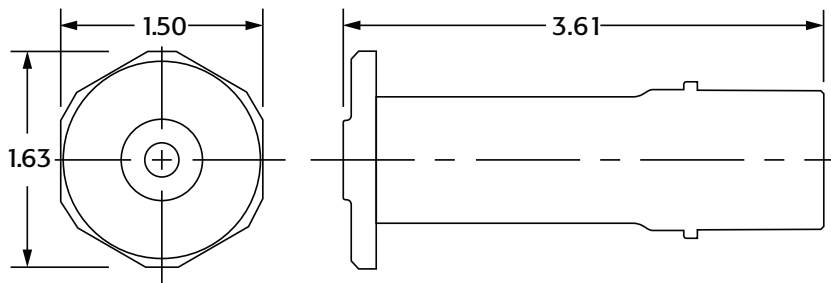


Model 918

Nose Assembly Data



99-3452



Tool Specifications



Model 255 Air Driven *See note below**

| | |
|--------|----------|
| 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" |

Arconic Fastening Systems and Rings



Arconic Inc. (NYSE: ARNC) creates breakthrough products that shape industries, providing solutions to complex engineering challenges to transform the way we fly, drive, build, and power. Combining ingenuity and advanced manufacturing, we deliver products that meet the challenges and demands faced by our customers.

Arconic Fastening Systems and Rings, formerly Alcoa Fastening Systems & Rings, is a global leader in fastening technology. Offering the greatest breadth and depth of fastening system solutions in the industry, Arconic continues to reflect the same commitment to product quality and support that customers have come to expect. To serve its growing market, Arconic Fastening Systems and Rings maintains corporate offices worldwide. In addition, Arconic distributors are located in many key industrial centers throughout the world, providing a ready supply of fasteners, installation tools, tool parts, and application assistance.

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