



# HEATSHIELD PRODUCTS, INC.

## HEATSHIELD ARMOR™ INSTALLATION SHEET

Heatshield Armor™ is an exhaust heat shield blanket that is designed to retain heat in the exhaust system. Heatshield Products recommends allowing for a ¾" to 1" gap when installing Heatshield Armor™ for racing and turbo applications. Use Heatshield Armor™ with ½" thickness for all forced induction, racing, diesel, and DPF applications.

**Required Equipment:** Safety glasses, gloves, dust mask & utility knife (or scissors). If you purchased Thermal-Ties™ we also recommend pliers (needle nose and/or diagonal).

### Optional Products:

- Heatshield Armor Weld Tape™- used to close and seal the Heatshield Armor™ seam together, and also to protect exposed insulation edges ( see Figure 3C and 3D for installation instructions).
- Thermal Ties™- stainless steel, self locking tie to hold Heatshield Armor™ in place (Figure 4)

Please refer to the chart at the bottom of the page for assistance in determining the size you should trim Heatshield Armor™ prior to installation.

1. Heatshield Armor™ can only be installed on a clean exhaust system. Exhaust system components must be cleaned so that no debris or chemicals remain on the pipes. Failure to do so may result in debris or chemical combustion.
2. Safety glasses, gloves, and dust mask are REQUIRED when handling Heatshield Armor™. Wearing a long sleeve shirt is also recommended.
3. Measure the OD of your pipe(s). If you are using the ¼" thick Heatshield Armor™, add ½" to the diameter, then multiply by 3.14. If you are using the ½" thick Heatshield Armor™, add 1" to your diameter then multiply by 3.14. This is the width you should trim your Heatshield Armor™ to cover your pipe. You may trim the Heatshield Armor™ with a pair of scissors or utility knife. **\*\*TIP\*\*When trimming Heatshield Armor™ to have a finished edge, add ¼" or ½" to your calculated measurement (Figure 1B, 2B, 3B) so you can fold the edge down.**
4. Take the Heatshield Armor™ and place the white side (ceramic insulation) directly on the exhaust pipe (Figure 2A, 2B).
5. Wrap Heatshield Armor™ around the exhaust pipe so that the aluminum side is facing out (Figure 3A). Be sure to leave a ¾" to 1" gap on the bottom side facing the ground (Figure 3D) for all racing and turbo applications. For naturally aspirated conditions, it is okay to completely cover the pipe with the Heatshield Armor™ (Figure 3A, 3B, 3C). If you purchased Heatshield Armor Weld Tape™, you can use the tape to cover the seam where the two parts of Heatshield Armor™ come together (Figure 3C). You can also use the weld tape to cover the exposed edges of the insulation (Figure 3D).
6. Secure with safety wire, clamp, or Thermal-Tie™ (Figure 4).

**PLEASE NOTE:** Heatshield Armor™ may smoke after installation; it will eventually stop. Smoke is a normal by product of the curing process; your Heatshield Armor™ will not burst into flames.

| Pipe Diameter in inches | Suggested width for ¼" Heatshield Armor™ in inches | Suggested width for ½" Heatshield Armor™ in inches | Suggested width for ½" Heatshield Armor™ to get ¾"-1" gap in inches |
|-------------------------|--|--|---|
| 1.75                    | 7.07   | 8.64   | 7.88  |
| 2                       | 7.85   | 9.42   | 8.67  |
| 2.25                    | 8.64   | 10.21  | 9.45  |
| 2.5                     | 9.42   | 10.99  | 10.24   |
| 3                       | 10.99  | 12.56  | 11.81   |
| 4                       | 14.13  | 15.70  | 14.95   |
| 5                       | 17.27  | 18.84  | 18.09   |
| 6                       | 20.41  | 21.98  | 21.23   |



**Gloves required**

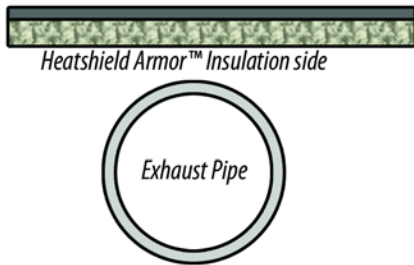


**Safety glasses required**

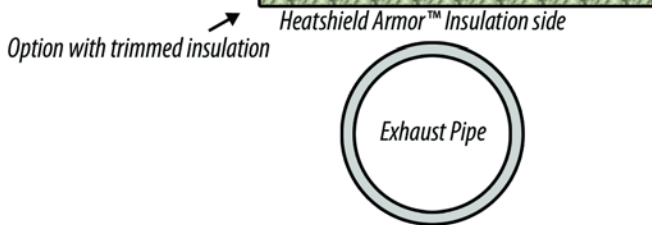


**Dust mask required**

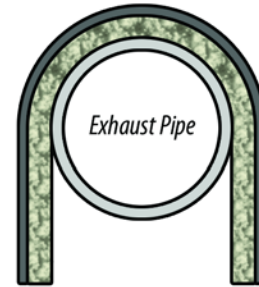
**Figure 1A:**



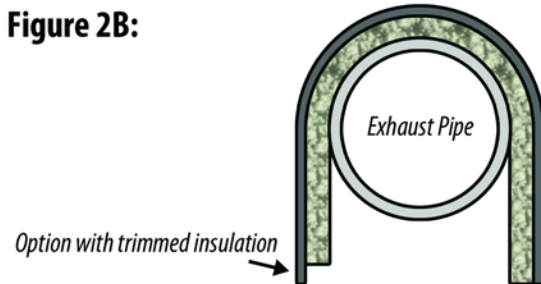
**Figure 1B:**



**Figure 2A:**



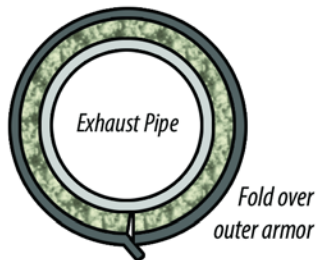
**Figure 2B:**



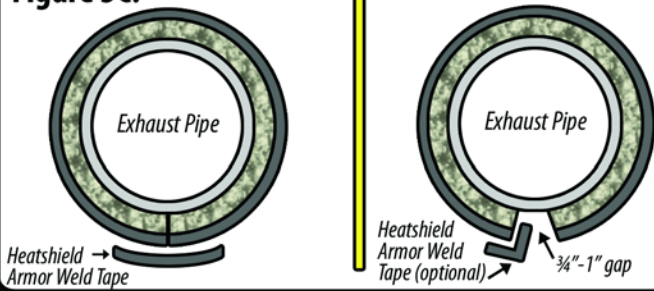
**Figure 3A:**



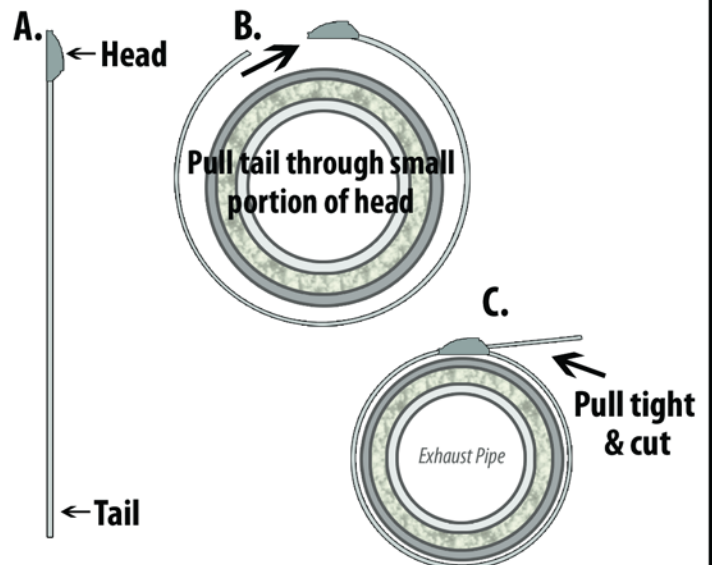
**Figure 3B:**



**Figure 3C:**



**Figure 4:**



Heatshield Products, Inc.  
27354 Valley Center Rd  
Valley Center, CA 92082

PHONE: (760) 751-0441  
FAX (760) 749-0730  
EMAIL: info@heatshieldproducts.com

**WWW.HEATSHIELDPRODUCTS.COM**