



Seal Around Chimneys and Flues

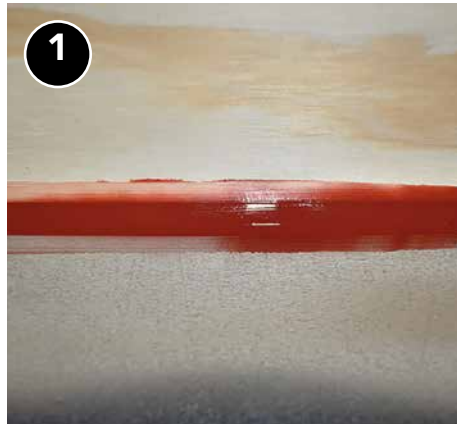
Job Aid for Seal and Dam High-Temperature Heat Sources in Attic Badge

Aligns with Standard Work Specifications 3.0102.2

BEFORE



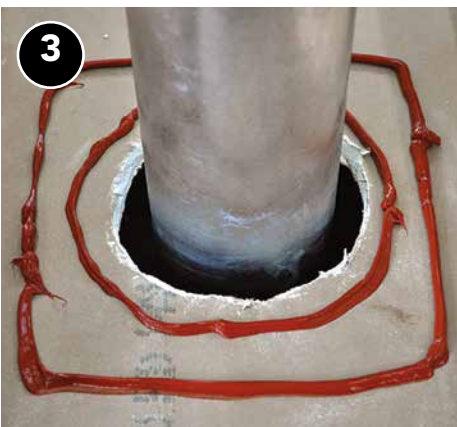
Clear insulation away from chimney or flue.



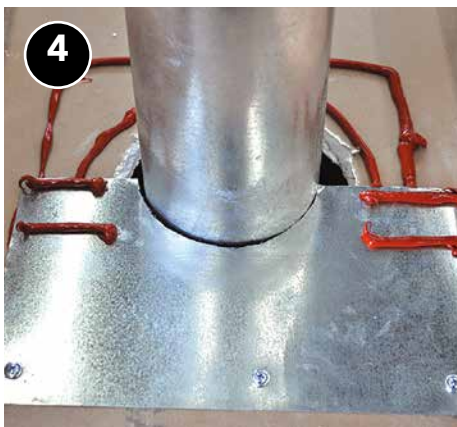
1
Select high-temperature caulk sealant that will remain flexible during temperature changes between materials.



2
Apply an unbroken ring of caulk directly to clean decking to match the perimeter of sheet metal backing.



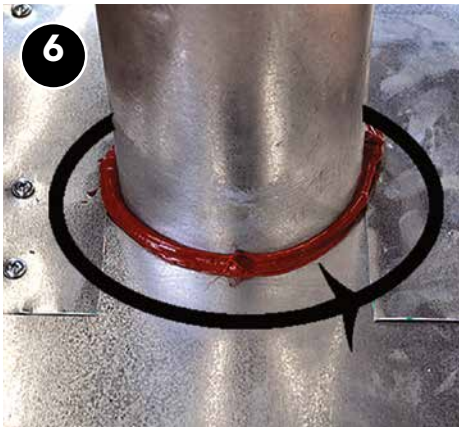
3
Install a second layer of caulk around the first.



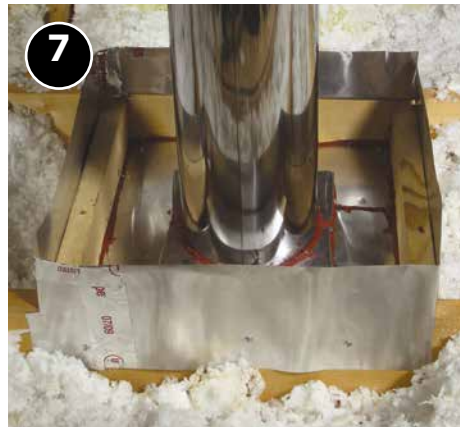
4
Set the first layer of sheet metal in place, leaving no more than a 1/4" gap around the chimney. Mechanically fasten the sheet metal to the adjacent framing and apply additional caulk where the second piece of sheet metal will overlap.



5
Set the second layer of sheet metal in place. Mechanically fasten the second piece of sheet metal to the first piece using 1/4" sheet metal screws, then secure the metal to the adjacent framing using longer screws.



Run bead of high-temperature caulk around the chimney and seal the edge of any remaining gaps to ensure an airtight seal.



Install a durable fixed dam, at least 2 inches higher than final insulation level, keeping all combustible materials at least 3 inches away from flue or chimney.



Checklist

Seal and dam high-temp heat sources in attic

DESIRED OUTCOME

Ensure safety from fire and prevent air leakage¹

Combustion Vents/Chimneys/Flues

- ☐ Worker can identify difference between high-temp flues and other vents (e.g., bath ventilation).
- ☐ Chases around high-temp flues are air sealed with approved materials.
- ☐ A durable fixed dam of approved materials is constructed around high-temp flues that:
 - ☐ Allows minimum 3" clearance (or the clearance specified by the authority having jurisdiction).
 - ☐ Stands at least 2" taller than final insulation levels.

1. Relevant Standards: 3.0102.2

The Weatherization Installer Job Aids were developed by Simonson Management Services under contract (GS-10F-0065U/89243422FEE400259) and published by the National Renewable Energy Laboratory under contract (DE-AC36-08GO28308) with the U.S. Department of Energy. These job aids were funded by the Weatherization Assistance Program with contributions from the weatherization training network.

