

**SUMMARY**

Demo Module A (LizardSkin OEM 350-TIC Only) reached 78°F from an ambient temperature of 95°F in 12min06sec during an AMD 012 Interior Climate Control Test and Demo Module B (350-TIC+Fabricated Foam) took 13min15sec. For comparison, Demo Module C (Fabricated Foam Only) took 19min0sec and Module D (Expanding Spray Foam Only) with expanding spray foam insulation took 28min45sec.

**PURPOSE**

The test was to compare performance of LizardSkin OEM 350-TIC on its own , 350-TIC combined with standard Fabricated Foam insulation, and a special request for Spray Foam insulation.

**BACKGROUND**

Reducing heat intrusion into the module is important not just for the comfort of the personnel in the module but also to the reliability of the cooling system on the truck. LizardSkin OEM provides a product (350-TIC) that is applied with an airless sprayer to a thickness of 1 mm (0.040 in). The current standard method of Fabricated Foam insulation leaves many areas exposed for wire runs and plated areas within the frame. A rough estimate is 20%-25% of the surface area on the walls may be un-insulated when using Fabricated Foam. 350-TIC can be applied to these areas and achieve near 100% coverage.

**METHOD**

The test method for AMD 012 Interior Climate Control Test was followed which consists of a heat soak at 95°F for a minimum of 3 hours followed by the cooling system being activated and interior temperature monitored by 6 different thermocouples. This test was performed at ETL Laboratories in Dallas, TX.

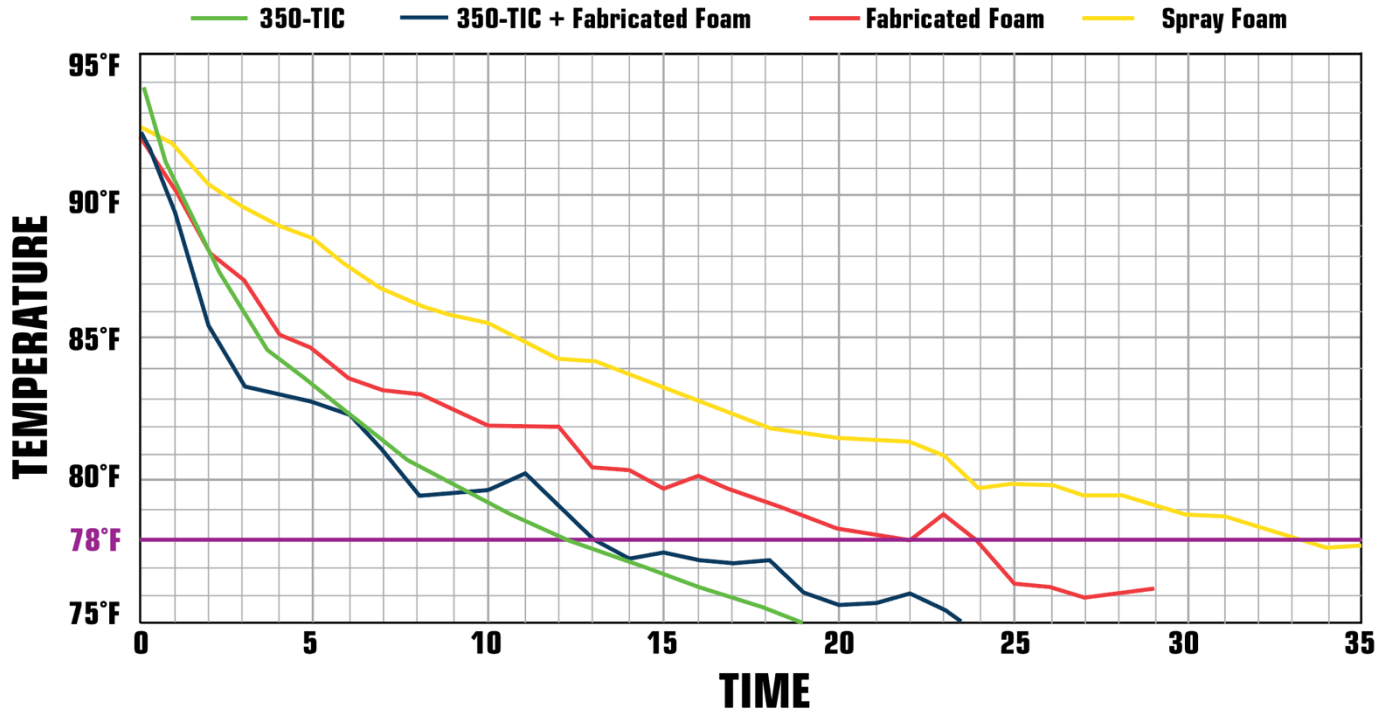
**RESULTS**

To provide a common starting reference point for all four vehicles, the time to temperature was started when the interior temp reached 2°F below the ambient recorded temperature. The module with 350-TIC alone achieved a temperature drop of -15° below ambient temperature in 9.5 minutes The module with 350-TIC+Fabricated Foam achieved a Delta T of -15° below ambient temperature in 8 minutes. The Fabricated Foam module reached a Delta T of -15°F in 15 minutes. The spray foam vehicle took 24 minutes. The AMD 012 test specifies that a vehicle must reach 78°F in less than 30 minutes. The relative times are shown below.

| <b>Insulation Tested</b>  | <b>Time 98°F to 78°F</b> |
|---------------------------|--------------------------|
| 350-TIC                   | 12 min                   |
| 350-TIC + Fabricated Foam | 13 min                   |
| Fabricated Foam Only      | 19 min                   |
| Spray Foam Only           | 28 min                   |

## DATA/GRAPHS

### Time from 95°F to 78°F (per AMD 012)



## CONCLUSIONS

The LizardSkin insulation outperforms the current standard insulation alone and significantly outperforms the expanding spray foam insulation some customers have opted for as an assumed upgrade.