



# Our Passion

Thermal-Tec is a nationwide, commercial and industrial roofing contractor that specializes in metal roof repair, metal roof systems, leak repair, roof maintenance, roof replacement and roof restoration. Our MR Multi-Ply® Roof System is an innovative roofing product specifically designed to repair transite (asbestos), aluminum, corrugated, galvanized, membrane, standing seam, sheet, and all other metal roofing. We are the metal roofing specialists.



Before



After

	Working Temperatures	Installation	Safety	Manufacturer Warranty	Roof System
THERMAL-TEC	-10° F to 120° F	We manufacture and install our own system.	Over 1.5 million man hours without a fatality or serious injury.	20-Year Warranty + \$10,000,000 liability insurance.	Specifically designed for pitched metal roofs
SINGLE-PLY	40° F to 50° F and rising over 48 hours.	Manufacturer, then distributor, general contractor then subs. No accountability!	Not available.	3rd Party, material only.	Not designed or manufactured to be installed on a metal building.

13801 Francis Way, Cedar Springs, MI 49319  
telephone 800.531.9798 | [www.thermal-tec.com](http://www.thermal-tec.com)



# Thermal-Tec Roofing

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# Failure is Not an Option

Designed Specifically for  
Melt Shop /Furnace Operations





# The Thermal-Tec Difference

## Your Challenges

You need to keep your facility water-tight, and you need a permanent roofing solution. You know the dangers of water, and wet charge materials are a serious safety hazard in all foundries. Water, moisture, or any liquid-bearing material instantaneously turns to steam when coming in contact with molten metal — expanding to 1,600 times its original volume and producing a violent explosion. This occurs without warning and throws molten metal and possibly high-temperature solids out of the furnace, putting workers, the furnace itself, and nearby plant and equipment at risk. **Thermal-Tec's MR Multi-Ply® Roof System** is one of the few in the industry that can stand up to high-intensity, mission critical environments. Our asphalt-based layers are resistant to corrosion, heat, and chemical degradation. This makes our roofing system essential to the steel and aluminum manufacturing industries.

## The Facts

- 94% of our installed systems need no service over the lifetime of the warranty.
- We include labor AND materials for the lifetime of the warranty unlike other commercial roofers that only cover material costs.
- We know the heavy industries; we know what you want and what you don't want.
- Most of our clients begin with a "pilot" project. Pilots are a small section of the roof that is used to prove our system's superiority.

**It Does Not Matter  
if Your Roof is 10,000  
or 1 million square  
feet, we deliver!**



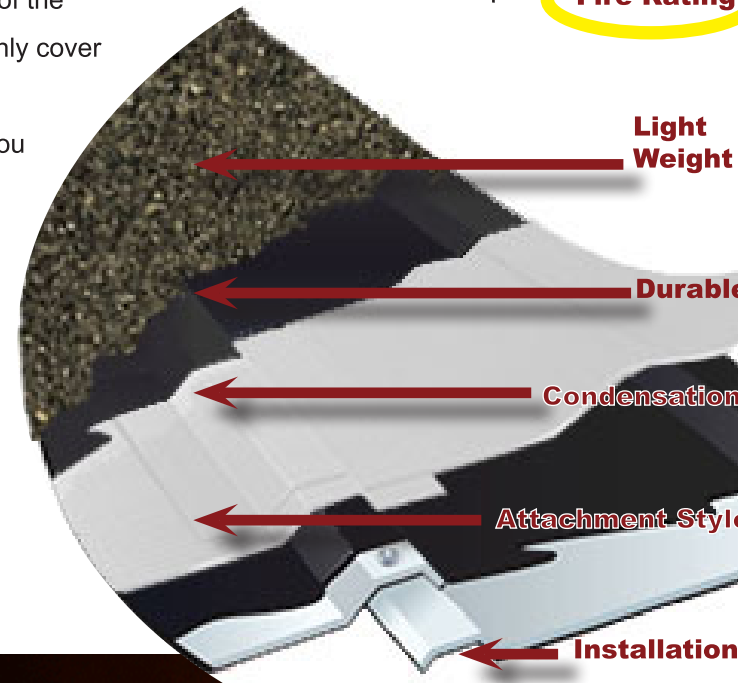
## Project Profile

Nucor Steel

Multiple locations across the Midwest

Nucor Steel based in Charlotte, North Carolina is the largest steel producer in the United States, as well as the largest "mini-mill" steelmaker (i.e. it uses electric arc furnaces to melt scrap steel as opposed to blast furnaces to melt iron). It is also the biggest recycler of scrap in North America. When Nucor was having problems with leaks due to the corrosive environment that their processes cause, Thermal-Tec had a solution. Nucor chose the **MR Multi-Ply® System** based on our reputation throughout the steel industry.

With Thermal-Tec's exceptional safety record, there were no worries about ceased production due to leaks. With the help of their new roof, Nucor Steel continues to produce the highest quality steel products today.



## The MR Multi-Ply® Roof System vs. Single-Ply

### Fire Rating

**MR MULTI-PLY® ROOF SYSTEM**  
MR Multi-Ply Roof® System has a class A fire rating by UL and FM.

**SINGLE-PLY MEMBRANE**  
Assembled roof system changes fire characteristics to highly flammable.

### Light Weight

**MR MULTI-PLY® ROOF SYSTEM**  
10-14 ounces per square foot.

**SINGLE-PLY MEMBRANE**  
3 to 5 pounds per square foot.

### Durable

**MR MULTI-PLY® ROOF SYSTEM**  
100–120 mils thick.

**SINGLE-PLY MEMBRANE**  
40–60 mils thick.

### Condensation

**MR MULTI-PLY® ROOF SYSTEM**  
Provides rustproofing and condensation control.

**SINGLE-PLY MEMBRANE**  
Creates condensation and destroys the metal deck.

### Attachment Style

**MR MULTI-PLY® ROOF SYSTEM**  
Adheres directly to existing metal. No fasteners required.

**SINGLE-PLY MEMBRANE**  
6,000 penetrations for every 10,000 sq.ft area—Now what?

### Installation

**MR MULTI-PLY® ROOF SYSTEM**  
Designed specifically for pre-engineered buildings.

**SINGLE-PLY MEMBRANE**  
System designed and developed specifically for flat roofs. Adaptation can occur, but adaptation produces numerous areas of system weakness.

**We Meet or  
Beat Any  
Roof System  
WARRANTY**

**VULCAN  
MR  
MULTI-PLY®**