



## 1. PRODUCT DESCRIPTION

Patented **RHINO TRED**<sup>®</sup> replaces the need to build with costly concrete filled steel pan or loud checker plate stairs.

Stairwell painting and clean-up can happen before the final installation of **RHINO TRED**<sup>®</sup>.

Pre-engineered for steel or wood stringers up to 6 ft in width.

**RHINO TREDs**<sup>®</sup> are built with a patented lightweight honeycomb core design, using a UHPC 10,500psi concrete. 48" treads weigh 34lbs, a 70% weight reduction vs standard precast treads.

## 2. ADVANTAGES

- Up to 70% lighter than other pre-cast concrete stair treads.
- 5x faster to install than traditional pan filled stairs.
- 2x the compressive strength of other concrete stair treads.
- Offers a low-noise upgrade from metal checker plate stair systems.
- Allows full use of metal fabricated stairs during construction.
- Honeycomb core supports 100% of the concrete tread, tread is supported by sub-pan.
- Embedded sand and epoxy finish provide a "pool deck" slip resistant long wearing tread.
- Mounts directly to metal stairs and wood stringer sub-pan.
- Exclusive Safe-T-Nose<sup>®</sup> embedded nosing with 1-inch Photo-Glo photoluminescent strips options. [www.safetnose.com](http://www.safetnose.com)

## 3. TECHNICAL

Compressive Strength: UHPC 10,500psi concrete

Nominal Height: 1 1/2-inches

Depth: 11 5/8-inches

Width: Up to 72 inches

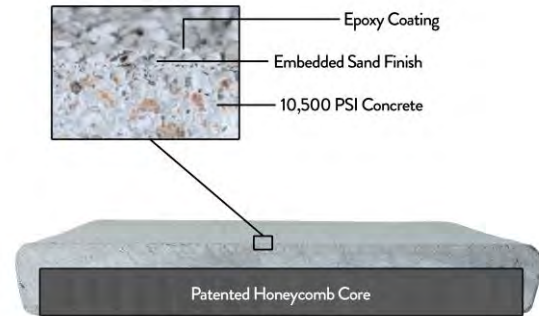
Weight: 8.8 pounds per square foot

Finish: Embedded sand and epoxy finish (custom colors available)

**STAIR STRUCTURE MUST CONFORM TO THE FOLLOWING I.B.C.**

**CODE: IBC Code: Table 1607.1**

- 100pfs – uniform load (4.8kN/m<sup>2</sup>)
- 300 lbf – concentrated load (1.33kN) 4 sq. inch area (2581 square mm)



## 4. METAL STAIR APPLICATION

**RHINO TRED**<sup>®</sup> is installed directly to flat metal riser surface using a one-part polyurethane, non-sag adhesive, Bostic 1100FS recommended.

## 5. SELECT MODEL

- NRT** – Our basic concrete tread has embedded sand and an epoxy finish. Natural Finish



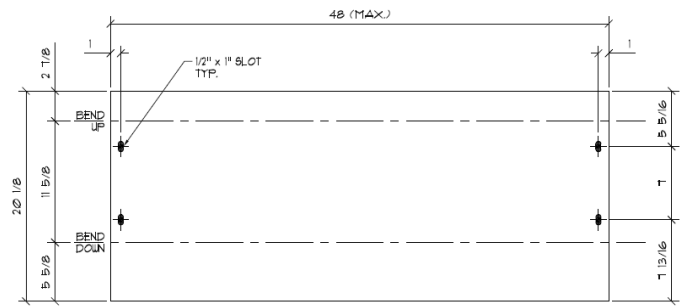
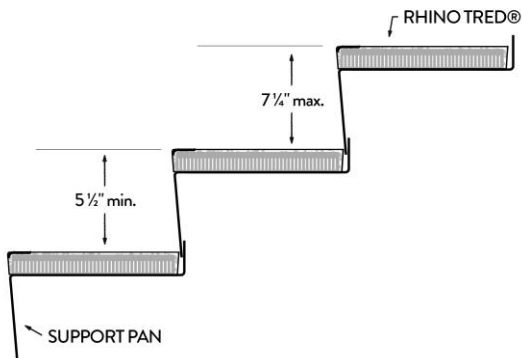
## PRE-ENGINEERED UNIVERSAL STEEL PAN OPTION

Install **RHINO TRED**<sup>®</sup> NRT-Pan using steel clips or wood stringer. Closed riser available in 10, 12, 14-gauge sub-pan to fit riser heights between 5-1/2" and 7-1/4". Available in G90 galvanized steel for exterior use.





## Lightweight Stair Tread

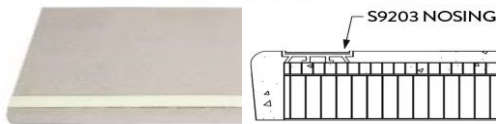


2a

STEEL SUB-TREAD FLAT PATTERN  
1/4 GA. STEEL SHEET

**TO MEET LUMINOUS EGRESS CODE REQUIREMENTS, OPTIONS BY SAFE-T-NOSE® MAY BE FACTORY INSTALLED.**

**Model NRTS9203** – Safe-T-Nose embedded 1" photoluminescent strip



**Model NRTSTNPT** – Safe-T-Nose embedded 1 1/2" aluminum nosing with 1" Photo-Glo photoluminescent strip



**Model NRTSTNC3** – Safe-T-Nose embedded 3" anodized aluminum nosing with 1" Photo-Glo photoluminescent strip and 1 1/2" black traction strip



### 7. INSTALLATION

RHINO TRED® is installed directly to flat metal riser surface using Bostic 1100FS (recommended) one-part polyurethane, non-sag adhesive. Installed prior to building turn-over to assure a new clean tread.

Materials are directly shipped from the National Redi-Tread factory to the installer or project.

### 8. STORAGE & PROTECTION

Store RHINO TRED® factory separated, above ground level and under weatherproof cover. Protect from weather, damage, and contamination prior to installation process.

### 9. RHINO TRED® Warranty

RHINO TRED® patented lightweight concrete stair treads have a five (5) year warranty. Improving performance enhancements to include:

- Superior life expectancy
- Installs near the end of project, to keep treads in pristine condition for final turn over of building.
- Installs 5x faster than traditional precast concrete treads.