



TECHNOLOGIES INC.

---

21 Industrial Ave • Upper Saddle River • New Jersey 07458

Tel: 201-818-1616 • Fax: 201-818-8775

E-mail: [nofire@nofire.net](mailto:nofire@nofire.net) • Web Site: <http://www.nofire.com>

January 2011

**Exciting news about**  
**NoFire's S Barrier Wrap System.**

- A new instruction manual demonstrates the ease of S Barrier installation in a simple step by step procedure.
- **NEW** ... low, low prices. (available upon request)

As you are aware, S Barrier is a fully Underwriter's Laboratories (UL) 2-hour approved fire protection system for structural steel. S Barrier has many advantages as compared to other types of structural steel fire protection, including cementitious (spray type or trowel type), spray-on intumescent, concrete, and gypsum.

**S Barrier's advantages include:**

1. No steel preparation or steel priming required
2. No heating of steel (in winter) required
3. No evacuation of the work area required during application
4. No hazardous materials, no odors, no toxic gases during application
5. Less expensive than spray applied materials
6. No delamination or unhealthy fibers or vapors emitted over time
7. Can be used in clean rooms and hospitals
8. Impact resistant
9. No decay in performance over time
10. Optional topcoating for exterior applications
11. Available for 1, 2, 3, and 4 hour applications

**FOR MORE INFORMATION CONTACT**  
**NoFire Technologies, Inc.**



---

***FIRE PROTECTION WRAP SYSTEM FOR  
STRUCTURAL STEEL***

*Description, Specification &  
Application Instructional Manual*



TECHNOLOGIES INC.

21 INDUSTRIAL AVE. UPPER SADDLE RIVER, NJ 07458-2301

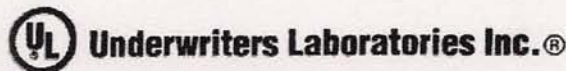
TEL: (201) 818-1616 • FAX: (210) 818-8775

Email: [nofire@nofire.net](mailto:nofire@nofire.net)

Web: [www.nofire.net](http://www.nofire.net)

© 2011 NOFIRE TECHNOLOGIES INC.





NO FIRE TECHNOLOGIES INC  
DR S GOTTFRIED  
21 INDUSTRIAL AVE  
UPPER SADDLE RIVER NJ 07458

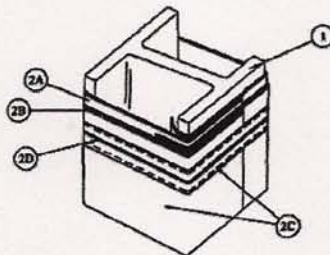
RE: Project Number(s) - R18955

Your most recent Certification is shown below. You may also view this information, or a portion of this information (depending on the product category), on UL's Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database). Please review the text and contact the Conformity Assessment Services staff member who handled your project if revisions are required. For instructions on placing an order for this information in a 3 x 5-inch format, you may refer to the enclosed order form for UL Card Service.

BXUV  
Fire Resistance Ratings - ANSI/UL 263

January 16, 2002

Design No. X205  
Rating — 1, 1-1/2 and 2 Hr.



1. Steel Column — Min size of column summarized in table under item 2A.
2. Mat Materials\* — The column protection assembly consists of 1/2 in. or 1 in. thick ceramic blanket, sheet metal foil, and an intumescent jacket. The assembly shall be installed in accordance with detailed installation instructions manual supplied by the manufacturer of the Mat Materials\*. The details of the column assembly are summarized below:
  - A. Ceramic Blanket — Flexible fabric identified as Fiberfrax, supplied in rolls. Density 8 lb/cuft. Installed by cutting to size and tightly wrapping around the column and itself such that a min 3 in. overlap is present along the vertical seam. The hourly rating of the column assembly is dependent upon the thickness of ceramic blanket as shown in the following table:  
When 1/2 in. Ceramic Blanket is used:

Rating, Hr.	Min. W/D
1	0.59
1-1/2	1.02
2	1.50

When 1 in. of Ceramic Blanket is used:

Rating, Hr.	Min. W/D
1	0.50
1-1/2	0.69

## Underwriters Laboratories Inc.®

Rating, Hr.  
2

Min. W/D  
1.07

When no Ceramic Blanket is used:

Rating, Hr.  
1

Min. W/D  
1.64

B. **Sheet Metal Foil Tape** — Nom 0.003 in. thick sheet metal foil supplied in rolls. Used to secure the vertical and circumferential butt joints of the ceramic blanket (Item 2A).

C. **Mat Materials\*** — **Intumescent Mat** — Flexible sheet material supplied in rolls. After completion of the sheet metal foil (Item 2B) intumescent mat installed by cutting to size and wrapping around the sheet metal foil. Horizontal butt joints are covered by nominal 4 inch wide piece of ceramic blanket (Item 2A) of the same thickness as the base layer. Ceramic blanket covered by nominal 5 inch wide strip of intumescent mat material.

NO FIRE TECHNOLOGIES INC — Type S Barrier

D. **Steel Wire Ties** — Stainless steel banding wire spaced 8 in. OC and along centerline of horizontal butt joints to secure intumescent mat.

\*Bearing the UL Classification Mark





## **INSTALLS IN FOUR EASY STEPS**

**S BARRIER Wrap System (shown in Figure 1) is comprised of 3 layers - Blanket, Steel Foil, and Textile (NoFire coated woven fiberglass).**

### **Step 1. Illustrated in Figure 2:**

The 1/2" blanket is supplied in 2 foot wide by 100 foot long rolls (1" blanket is 2' x 50' foot long rolls).

Wrap the blanket around the column with the ends of the blanket butted as shown. Continue wrapping the columns along its height, in 2-foot sections, with simple butt joints. The blanket may be held in place temporarily using masking tape.

### **Step 2. Illustrated in Figure 3:**

Wrap the steel foil around the blanket with the ends of the steel overlapping approximately 2 inches as shown. The seam of the steel foil should be staggered from the seam of the blanket as shown. The steel foil may be held in place temporarily using the masking tape.

### **Step 3. Illustrated in Figure 4:**

Wrap the textile around the steel foil overlapping approximately 2 inches as shown. Textile overlapping seam can be on opposite side of blanket and steel seams as shown in Fig. 4 (Top View).

### **Step 4. Illustrated in Figure 5:**

Secure the assembly with steel bands on 12" centers using the banding tool supplied with each order.

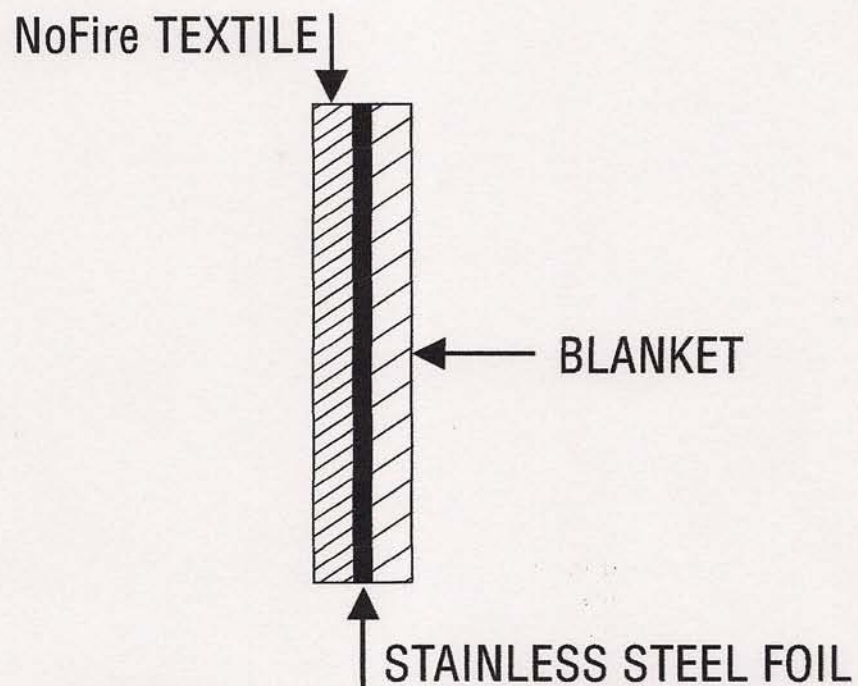
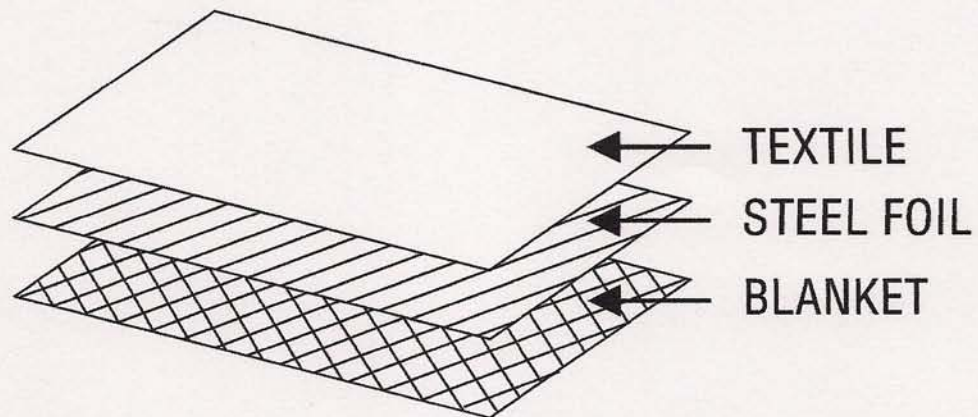
### **Figure 6:**

Repeat Steps 1 - 5 for the adjacent section vertically. The Blanket Horizontal seams are Butt Joints similar to the vertical seams in Step 1. The steel and textile vertical seams are 2 inch overlapping the butt seams, as shown in Figure 6.

**Figure 1.**

---

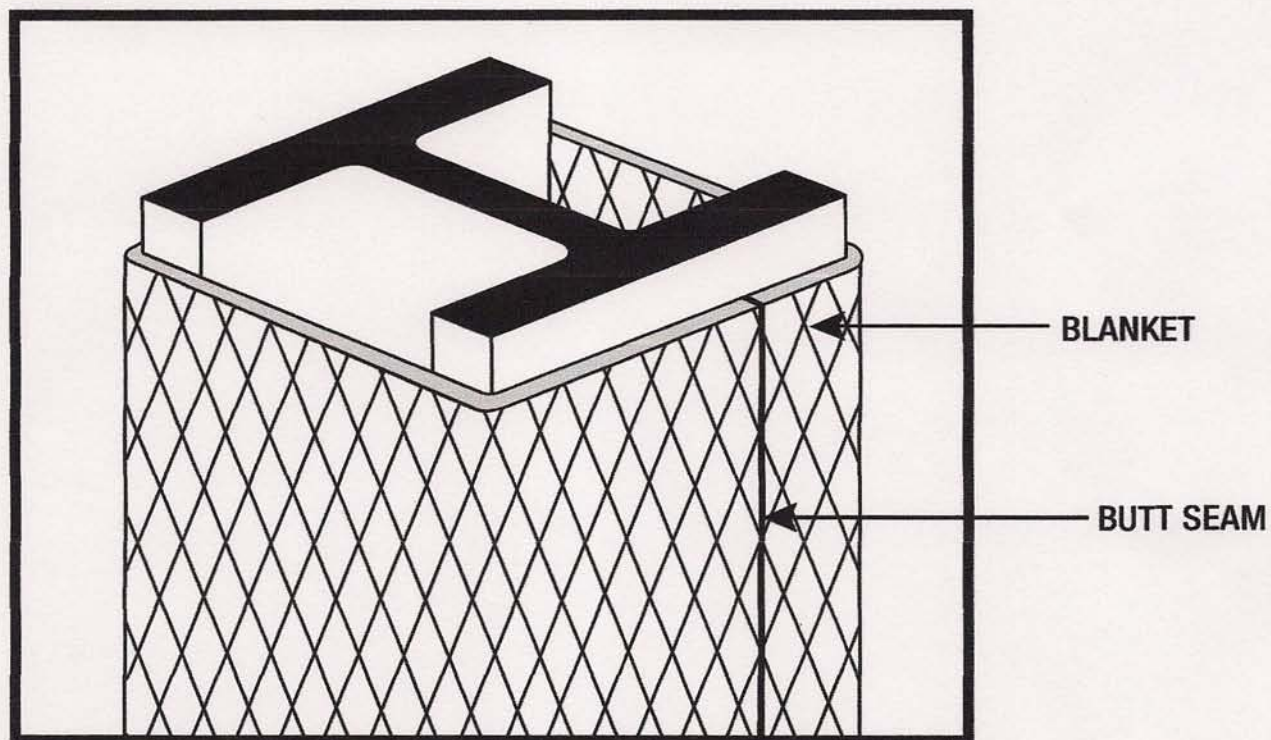
**S-BARRIER WRAP SYSTEM**





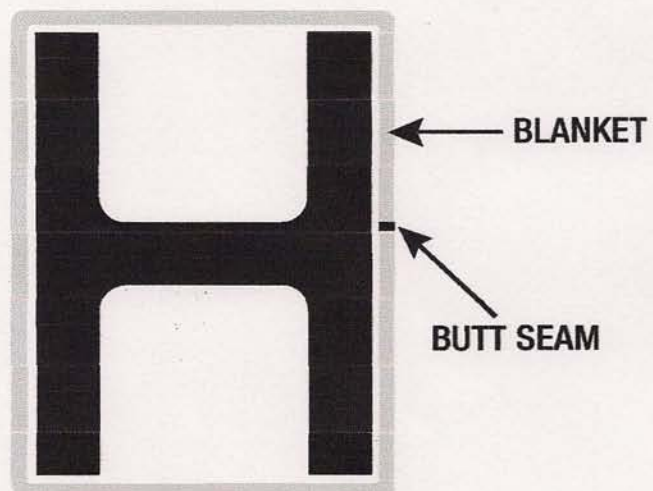
**Figure 2.**

---



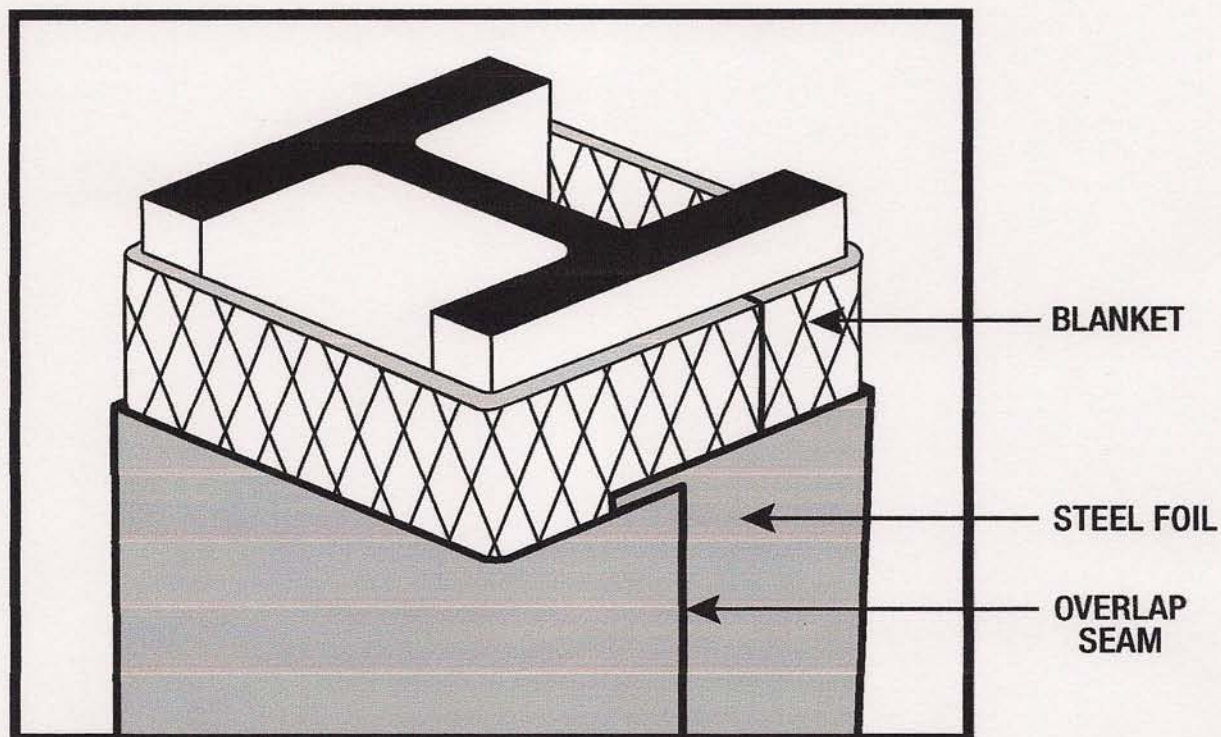
**1<sup>ST</sup> LAYER—BLANKET WITH BUTT SEAM**

**TOP VIEW**



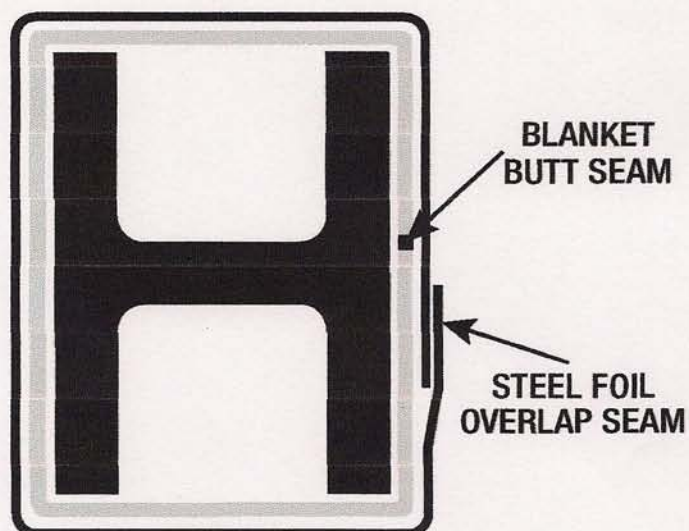
**Figure 3.**

---



**2<sup>nd</sup> LAYER — STEEL FOIL WITH  
OVERLAP SEAM (OVER BLANKET)**

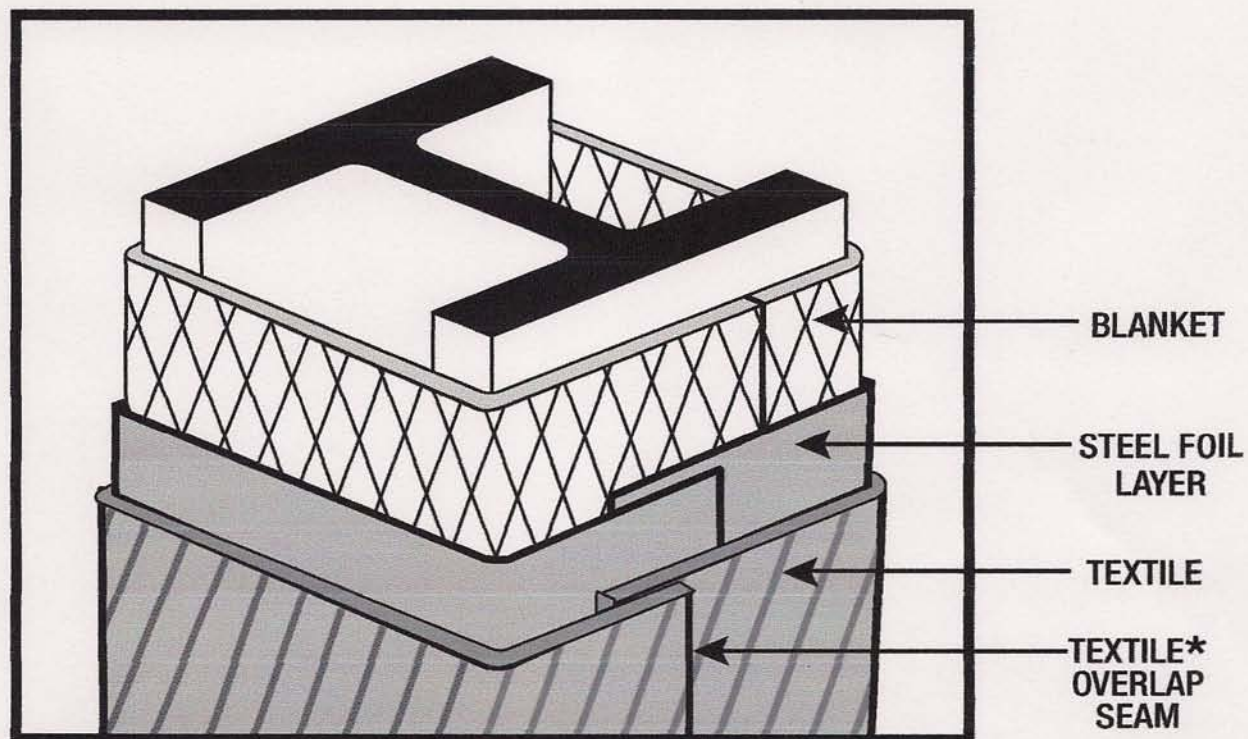
**TOP VIEW**



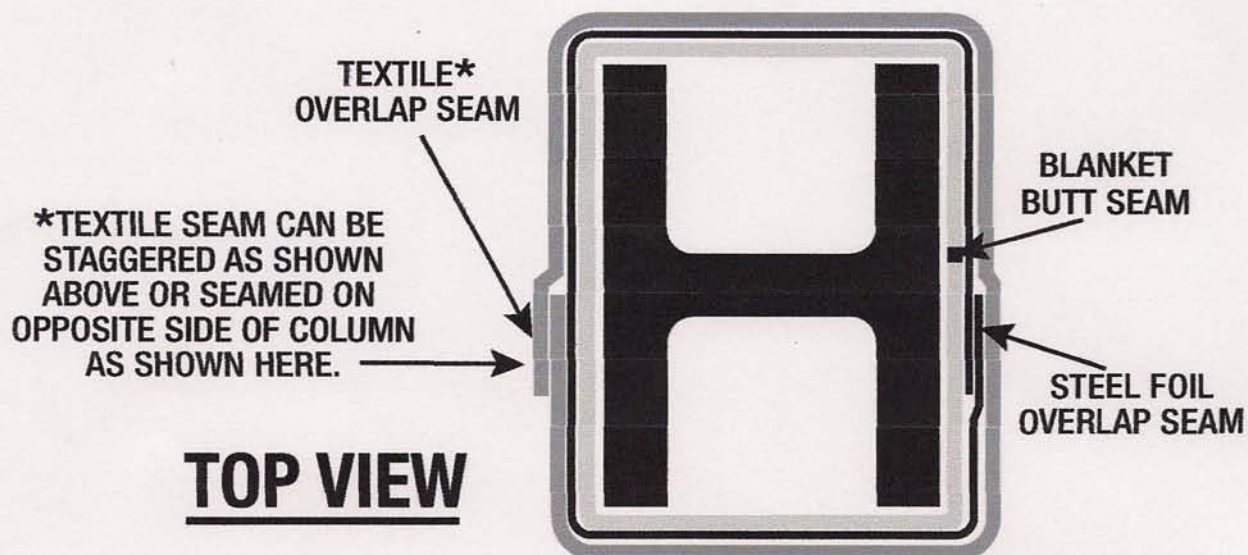


**Figure 4.**

---

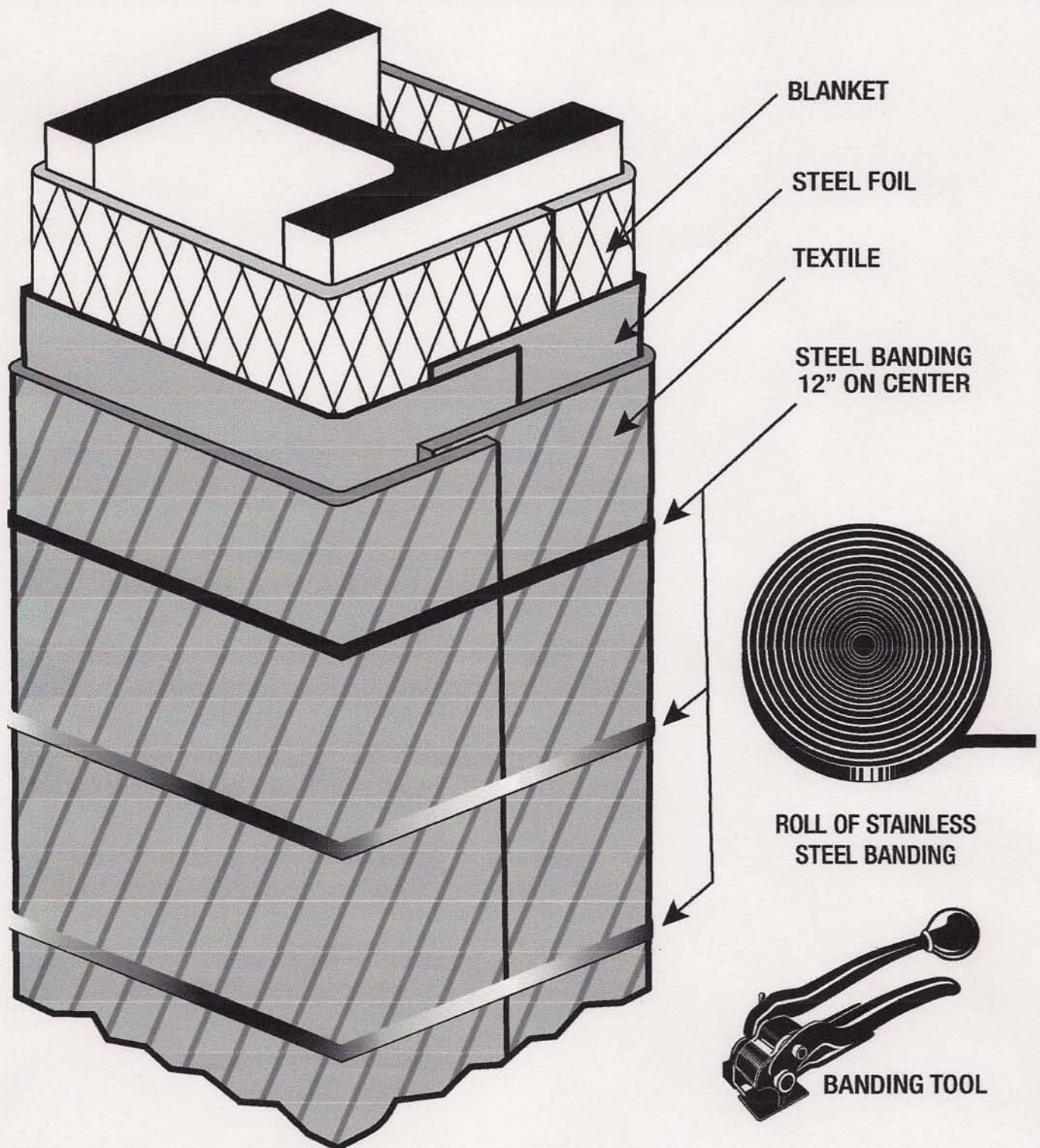


**3<sup>RD</sup> LAYER — NOFIRE TEXTILE  
WITH OVERLAP SEAM (OVER STEEL FOIL)**



**Figure 5.**

---





# Figure 6.

## HORIZONTAL OVERLAPPING

