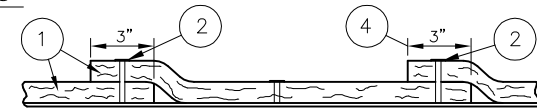
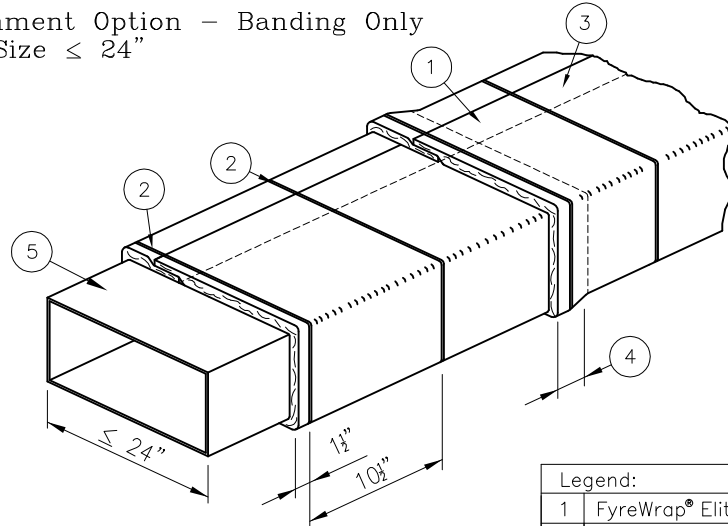
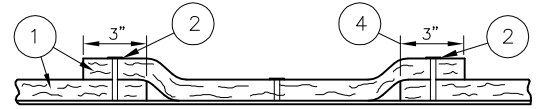


FyreWrap® Elite® 1.5 Duct Insulation – Single layer
Air Distribution System (ADS)
1 and 2 Hour Fire Rated Enclosure

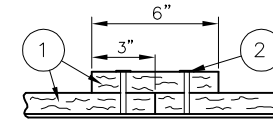
Attachment Option – Banding Only
Duct Size $\leq 24"$



Telescoping Overlap Technique
Cross-Section View

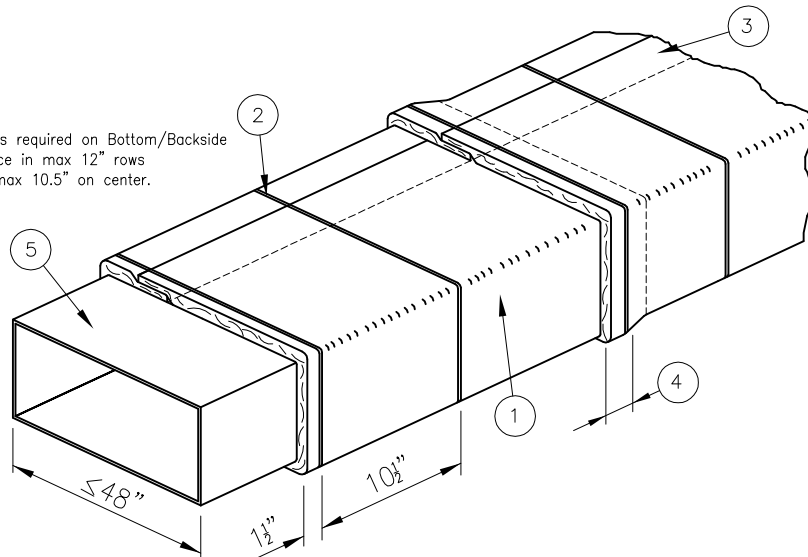


Checkerboard Technique
Cross-Section View



Butt Joint & Collar Technique
Cross-Section View

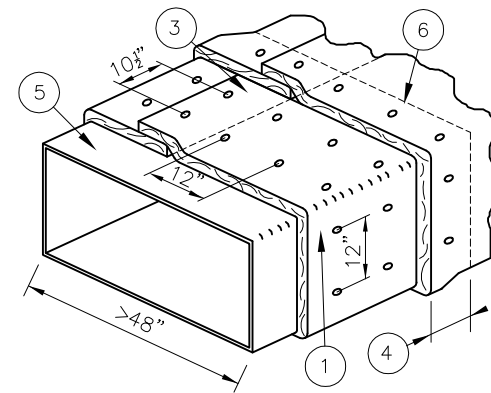
Attachment Option – Banding and Pins
Duct Size $\leq 48"$




Note: Pins required on Bottom/Backside only. Place in max 12" rows Spaced max 10.5" on center.

Legend:	
1	FyreWrap® Elite® 1.5 Duct Insulation, One Layer
2	Steel Bands and Clips
3	3" Minimum Longitudinal Overlap
4	3" Minimum Perimeter Overlap
5	Minimum 26 ga. and built per SMACNA HVAC Duct Construction Standards
6	Weld Pin and Speed Clip

Attachment Option – Pins Only
Duct Size $> 48"$



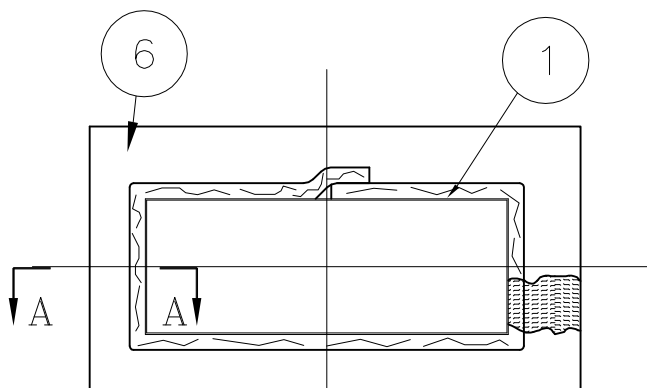
Revisions	Comments		
Δ01-27-11			
Δ06-03-15		SUBJECT—	
Δ07-31-17		LOCATION—	
		BLDG. NO.—	
		DATE— 07-31-2017	
		DRAWN— S.A.Rustay	
		ENGINEER APPROVAL—	
		DATE	
		SCALE— N.T.S.	
		SIGNED—	
		DRAWING NO. FP-455R3	
		PROJECT NO.	

FyreWrap® Elite® 1.5 Duct Insulation Through Penetration Wall Systems

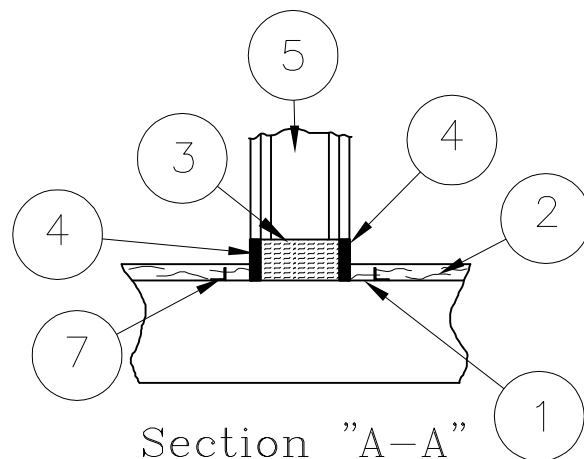
Intertek (OPL) Design No. UNI/PHV 120-03, UNI/PHV 120-04

ASTM E814

- F Rating - 2 Hr
- T Rating - 2 Hr

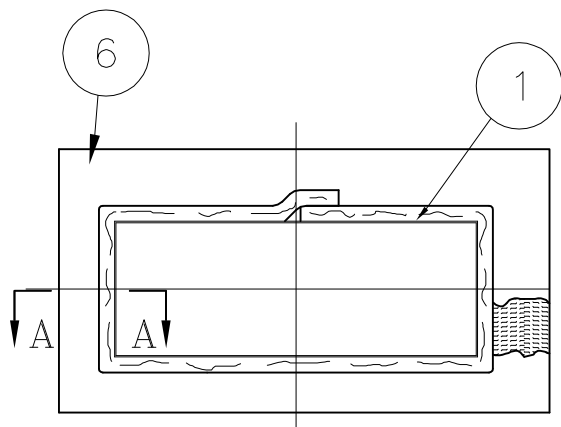


Wall View

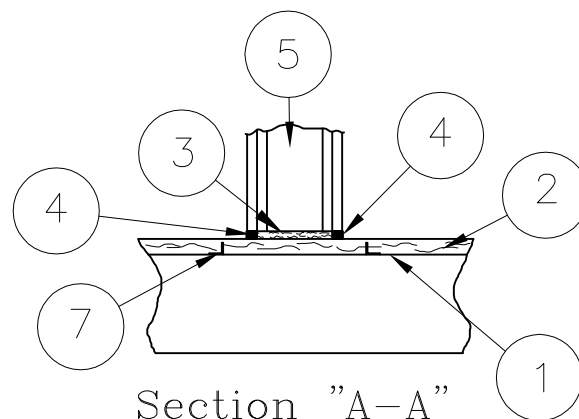


Section "A-A"

Duct Wrap Insulation Terminated at Wall



Wall View



Section "A-A"

Duct Wrap Insulation Continued Through Wall

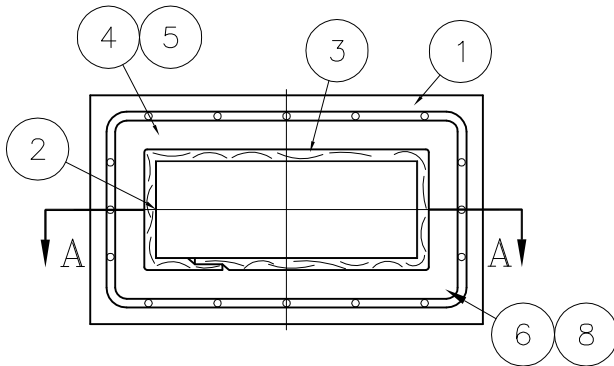
Legend:	
1	Air Duct, min. 26 gauge, 1296in ² area, 54" max width, and built per SMACNA HVAC Duct Construction Standards
2	FyreWrap® Elite® 1.5 Duct Insulation, One Layer
3	Unfaced FyreWrap® Elite® 1.5 (Compressed 33% ^{>} , recessed ½" on each side)
4	Firestop Sealant, ½" depth, overlapping on gypsum board and duct min. 1" 3M Fire Barrier 1000NS or Hilti FS-ONE or STI SpecSeal SSS or Tremco FyreSil
5	Gypsum Board Wall Assembly, 2 Hr. rated
6	Annular space, 1" to 1½"
7	Duct Reinforcement, 1"x1"x½" steel angle on all four sides of duct and located on both sides of wall.

FyreWrap® Elite® 1.5 Duct Insulation Through Penetration Firestop System

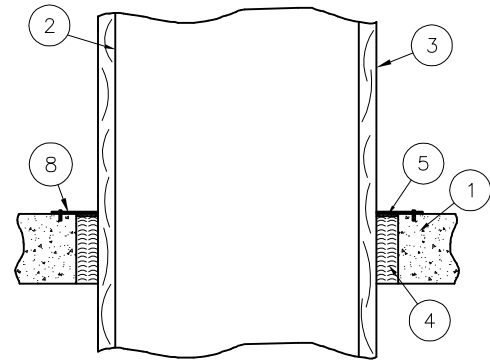
Intertek Design Nos. UNI/FRD 120-21, 120-23, 120-24

Per ISO 6944, ASTM E119, & ASTM E814

- F Rating - 2 Hr
- T Rating - 2 Hr

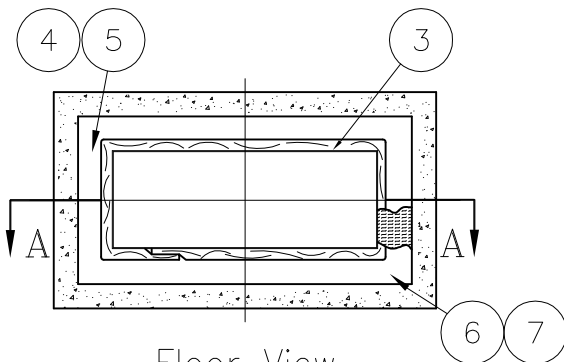


Floor View

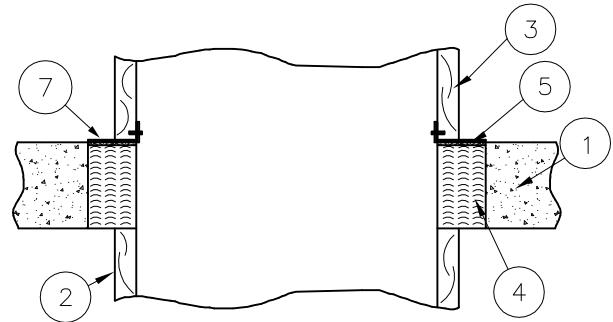


Section "A-A"

Duct Wrap Insulation Continued through Floor



Floor View



Section "A-A"

Duct Wrap Insulation Terminated at Floor

Legend:	
1	Concrete Floor Assembly, 4½" depth
2	HVAC duct, min 26 gauge, 1296 in² area, max 54" width, and built per SMACNA HVAC Duct Construction Standards
3	FyreWrap® Elite® 1.5 Duct Insulation, One Layer
4	Unfaced FyreWrap® Elite® 1.5 Blanket, 4½" depth Compressed 33%
5	STI SpecSeal SSS, 1/4" Plus ¾" Overlap On Concrete and duct insulation
6	Annular Space, 1" to 2"
7	Duct Reinforcement: ⅝" thk. steel angle (1" tall vertical leg x horizontal leg dim. at least equal to width of annular space) Attach using ¼" dia. steel pop-rivets. Spaced max 6" O.C.
	OR
8	or Min. ⅝" thk. steel plate over the firestop sealant (compressing ductwrap ¼" and extending onto floor surface 2") Attach with ¼" dia. concrete screws, spaced 6" O.C.

