

Tru-Balance 3300E Insulated Saddles

360° Polyisocyanurate Insulated Saddle for Cold and Hot Service



Description

The Tru-Balance Model 3300E insulated saddle is the most complete pre-insulated saddle system in the industry today for commercial piping systems to 300° F. The 3300E consists of a rigid 3 PCF polyisocyanurate insulation up to 12” IPS and 4 PCF on 13” and larger. The 3300E also has a superior vapor retardant facing which contain no known nutrients that promote mold or fungus problems.

Guide Specifications

Wherever pipe insulation passes through a hanger location, Tru-Balance 3300E water resistant insulated saddles shall be installed at the hanger locations for all piping operating to +300° F.

Technical Data

Features and Benefits

- A complete composite assembly, for fast and easy installation.
- A 360-degree section of polyisocyanurate pipe insulation for greater thermal efficiency and compressive strength. Rigid 3 p.c.f. or 4 p.c.f. insulation can withstand the weight of commercial piping.
- Rigid insulation and Zero Perm Vapor Retarder contains no known nutrients that contribute to mold or fungus problems.
- Zero perm industrial grade protective covering has 6 mils of thickness for superior condensation control. A premium self seal tape completes the closure of the system.
- A G-90, 180-degree Buckaroos bottom steel shield with centered short ribs for maximum insulation protection at hanger locations. (A 360-degree self-clamping shield is also available.)
- Rigid polyisocyanurate insulation and superior vapor retarder contains no known nutrients that contribute to mold or fungus problems.
- Each unit has a genuine “Quick-Inspect” sticker applied at the bottom of each saddle for easy jobsite engineer or inspector identification after application.
- Unique “Safe-Pack” packaging protects the insulated support during shipment to the jobsite.

Applications

This saddle is intended for indoor use on refrigeration lines, chilled water lines, cold-process piping and thermal-cyclic systems. Use it on cold systems where control of condensation is a critical requirement. Use it on hot systems up to 300°F to standardize saddle specification. It is ideal for domestic hot water and low-pressure (50# max. pressure) steam lines. Insure complete system integrity by eliminating compromised thermal performance at all hanger and support locations. The 3300E saves energy and labor. It can be installed rapidly by any qualified contractor.

A wise investment!

Physical Property	3.0 PCF	4.0 PCF	Specification Compliance
Recommended Pipe Sizing	½” to 11” IPS	12” to 24” IPS	Manufacturer Design Limits
Insulation Density, lb/ft³	3.0	4.0	ASTM D-1622
K-Factor, Aged 180 days @ 75°F	.19 Btu•in/hr•ft ² •°F	.19 Btu•in/hr•ft ² •°F	ASTM C-518
Service Temperature, °F	-297 to +300	-297 to +300	
Compressive Strength, lb/in²	45	80	ASTM D-1621
Water Absorption, 24-hr immersion % by volume	<0.7	<0.7	ASTM C-272
Closed Cell Content, %,min	95	95	ASTM D-2856
Surface Burning Characteristics Flame Spread/Smoke Developed (FS/SD)	25/450 up to 6” thickness	25/450 up to 6” thickness	ASTM E-84
Vapor Retarder Film			
Thickness Average (w/o liner)	6 mil.	6 mil.	ASTM D-374
Perm Rating	.010	.010	ASTM E-96 – 93 UBC
Saddle, Galvanized Carbon Steel Thickness, range	Hot Dipped G-90 22 gauge - 12 gauge		ASTM A-653 (Replaces A527) ASTM A-653 (Replaces A527)

Product Dimensions

Nominal Pipe Size	Insulation Density	Insulation Length	Saddle Length	Saddle Gauge
½” – 1 ½”	3	9”	6”	22 Ga.
2” – 5”	3	18”	12”	18 Ga.
6” – 11”	3	18”	14”	16 Ga.
12” – 18”	4	18”	14”	14 Ga.
20” – 24”	4	18”	14”	12 Ga.

(Replaces previous Tru-Balance version – rev. 12/2015)