INDUSTRIIES, INC.

Order Guide

www.firedamper.com

Fire Dampers

Description: Fire dampers are designed to restrict the spread of fire through ventilation systems by snapping shut when the fusible link melts.

Required information:

- What are the dimensions of the damper? Width 1 X Height Dampers are supplied 1/4" less than ordered size unless the "actual size" is specified. 2. What Transition sleeve is needed? No Transition, plain damper (Model 75A)
 - 75CR: (round transition) Duct diameter
 - 75CO: (oval transition) Oval width Oval height
 - 75C: (rectangular transition) Rectangle width Rectangle height

Please note: On the transition, we will determine the proper frame based on order dimensions you list.

- 3. What is the depth of the damper? \Box 2" (Model 75D)
- \Box 4.25"(Standard) Is a sleeve required to increase the depth of the damper? 4. □ Yes □ No If so, what is the length , gauge Offset of damper in sleeve Is a flange required on sleeve if yes offset from flange
- 5. Where are the blades positioned? \Box In the airstream (75-85% free area) Out of the airstream (80-90% free area and less resistance to air flow) When ordering blades for out-of-the-airstream dampers, the "height" does not include the blade stack. (See our specs for more details.)
- What is the mounting orientation of the damper? 6. Horizontal (spring loaded with a blade lock) □ Vertical (gravity operated)
- 7. What fire rating is required? 1.5 hour (Model 75A) \Box 3 hour (Model 75L) *Three-hour dampers can only be mounted vertically.* \Box 1.5 hour (Model 75A)
- What type of HVAC system is the damper for? 8. Static: The HVAC system is required to shut down automatically during fire emergencies.
 - Dynamic: The HVAC system will continue to operate during the early phases of a fire emergency, providing important smoke control functions. (Dynamic only available up to 24" X 24")
- Dynamic option: Parallel blades style (Model FD-111-PB) 9 What material is required for the construction of the damper?
- Galvanized steel (standard) ☐ Stainless steel
- 10. What temperature rating is required for the fusible link? $\Box 285^{\circ}F$ □ 165°F □386°F □212°F □ 375°F
- 11. Are mounting angles needed? Full set of standard angles (4 per side, 8 total) Rapid mounting angle (4 total for one-sided mounting angle)









Model 75A

Model 75DB

	Vertical	Horizontal
Static Curtain Damper (Single Section)		
Min:	4" x 4"	4" x 4"
Max:	60" x 60"	60" x 60"
Static Curtain Multi-Section	120" x 120"	n/a
Dynamic Curtain (Single Section)		
Min:	4" x 4"	4" x 4"
Max:	24" x 24"	24" x 24"
Multi-Blade (Single Section)	36")	(36"
Multi-Blade (Multi-Section)	72">	(72"

Date:	
Wholesaler Name:	
Location:	
Salesman:	
Phone:	
Contractor Company:	
Name:	
Job name:	
Signature:	
Comments	



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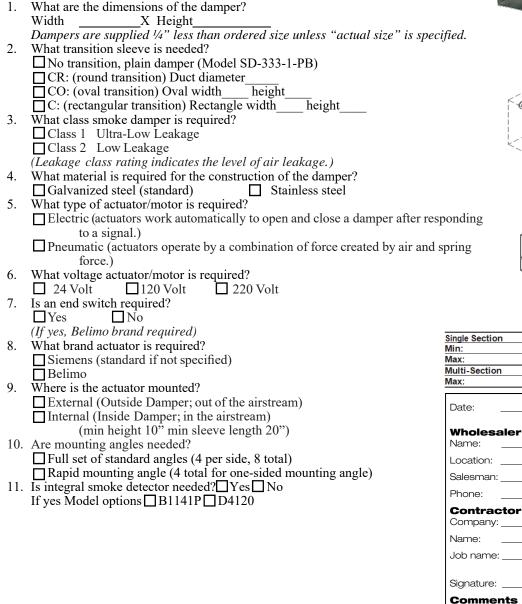
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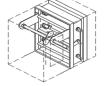
Smoke Dampers

Description: Smoke dampers are designed to restrict or control the movement of air and smoke in HVAC systems which shut down in the event of fire of a fire.

Required information:









Model SD-333-1-PB

el SD-333-1-PB (Round type "CR")





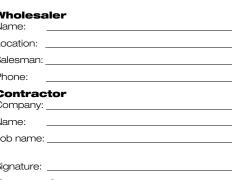
Model SD-333-1-PB (Oval type "CO")

Model SD-333-1-PB (Rectangular type "C")

72" x 72"

	 Class I	Class II & III
	 Class I	
Single Section		
Min:	12" x 8"	8" x 8"
Max:	36" x 36"	36" x 36"
Multi-Section		

72" x 72"







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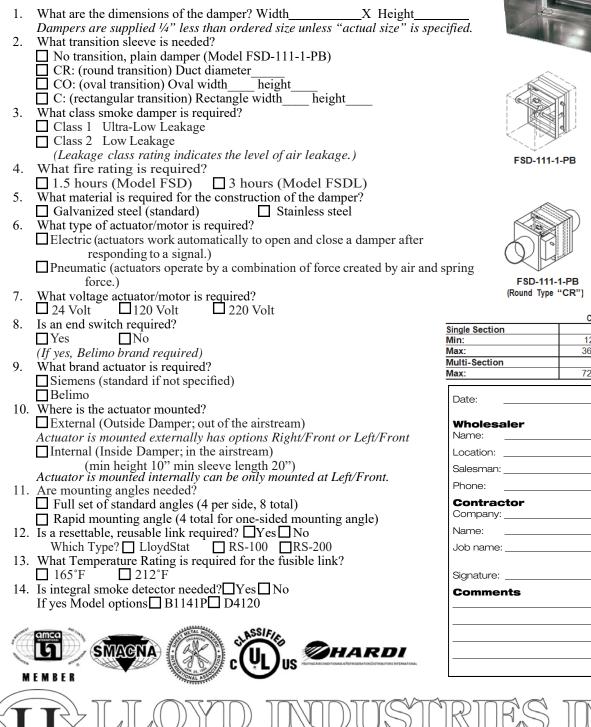
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Combination Fire/Smoke Dampers

Description: Fire/Smoke dampers are designed to prevent the passage of both flame and smoke in the event of a fire.

Required information:



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FSD-111-1-PB (Oval Type "CO")



FSD-111-1-PB (Rectangular Type "C")

	Class I	Class II & III
Single Section		
/lin:	12" x 8"	8" x 8"
/lax:	36" x 36"	36" x 36"
Aulti-Section		
/lax:	72" x 72"	72" x 72"

Corridor Fire/Smoke Dampers

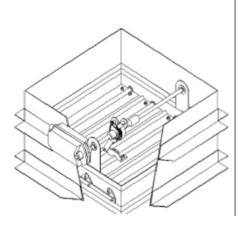
Description: Corridor Fire/Smoke Dampers are a combination of fire and smoke dampers that have been evaluated for mounting only in specific corri-

Required information:

- What are the dimensions of the damper? Width_____ 1. X Height Dampers are supplied 1/4" less than ordered size unless "actual size" is specified.
- 2. What class smoke damper is required? Class 1 Ultra-Low Leakage Class 2 Low Leakage (Leakage class rating indicates the level of air leakage.)
- 3. What material is required for the construction of the damper? Galvanized steel (standard) Stainless steel
- 4. What type of actuator/motor is required? Electric (actuators work automatically to open and close a damper after responding to a signal.)
 - Pneumatic (actuators operate by a combination of force created by air and spring force.)
- 5. What voltage actuator/motor is required? 24 Volt 🔲 120 Volt 220 Volt
- 6. Is an end switch required? ____ Yes No (If yes, Belimo brand required)
- 7. What brand actuator is required? □ Siemens (standard if not specified) □ Belimo
- 8. Where is the actuator mounted? External (Outside Damper; out of the airstream) Actuator is mounted externally has options Right/Front or Left/Front ☐ Internal (Inside Damper; in the airstream) Actuator is mounted internally can be only mounted at Left/Front.
- 9. Are mounting angles needed? Full set of standard angles (4 per side, 8 total) Rapid mounting angle (4 total for one-sided mounting angle)
- 10. Do you require a LloydStat resettable, reusable link? Yes No
- 11. What Temperature Rating is required for the fusible link? □ 165°F 212°F



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Date:	
Wholesaler Name:	
Location:	
Salesman:	
Phone:	
Contractor Company:	
Name:	
Job name:	
Signature:	
Comments	



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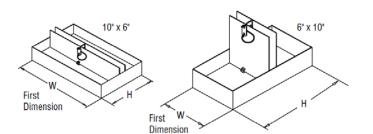


Ceiling Radiation Dampers

Description: CRDs are used to protect HVAC openings in fire-rated horizontal ceiling assemblies. Damper closes automatically to restrict the passage of heat.

Required information:

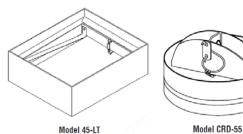
- 1. What type of CRD is needed? □Square (Models 45&50) □ Round (Models 55)
- 2. What style of CRD is needed?
 Butterfly double blades type
 Easy access butterfly double blades type
 Curtain type 4-1/4" depth
 Curtain type 2" depth
 Hinged blade 4" single blade type (Available with 4" dim only)
 Hinged blade 6" single blade type (Available with 6" dim only)
- What are the dimension of the CRD? For rectangular, Width X Height For round, Diameter Dampers are supplied ¹/₄" less than ordered size unless "actual size" is specified.
- What material is required for the construction of the CRD? ☐Galvanized steel (standard) ☐Stainless steel
- 5. What Temperature Rating is required for the fusible link? $\Box 165^{\circ}F \quad \Box 212^{\circ}F$
- 6. Is a sleeve required to increase the depth of the damper? □ Yes □ No If so, what is the length_____, Offset of damper sleeve_____
 flange needed on sleeve? □ Yes □ No

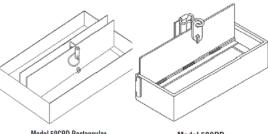


For greatest free area, use the shorter dimension for width Model CRD 50-EA W* x H*



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Model 50CRD Rectangular (Shown with Easy Access Link) Model 50CRD Single-Blade Damper

Date:
Wholesaler Name:
Location:
Salesman:
Phone:
Contractor Company:
Name:
Job name:
Signature:
Comments



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CRD Boot / Register Box Assembly

Description: Boots/Register assemblies include fiberglass plenum boxes.

Required information:

- 1. What are the dimensions of the boot? register width" x height" x collar dimension _ x _____ x ____
- 2. Depth of plaster flange _____
- 3. What type of boot is required? □ 50CRD/95-BT 90° Boot 50CRD/96-BT: End Boot 50CRD/98-BT: Straight Boot Please note: 1" flange provided, shipped non-insulated
- 4. Metal Register Box Assemblies Insulated □ Non-Insulated ☐ Top Outlet ☐ Side Outlet For models 50CRD-BT, 55CRD-BT, 45LT-BT, 45LTD-BT & 50CRD-NI-BT
- 5. FGPB Models J & K Fiberglass Plenum Box Assemblies 4.2 Insulation 6.0 Insulation □ 4.2 Insulation □ Knocked Down (Model J) □ Assembled (Model K)
- More varieties of boots are shown in the Ceiling Radiation Damper catalog 6. What Temperature Rating is required for the fusible link? \Box 165°F \Box 212°F







50CRD / 95-BT 90° Boot

50CRD / 96-BT End Boot





Metal Box with Side Outlet

50CRD / 98-BT Straight Boot



Metal Box with Top Outlet - Insulated (non-insulated also available)

FGPB Models J and K Fiberglass Plenum Box Assemblies

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IF LLOYD INDUST	RIES INC.

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Air Control Dampers

Description: Air control damper is used to control airflow and is considered medium to heavy duty.	
Required information: 1. What type of air control damper is needed? □ Square (Models 10&20) □ Round (Models 30&40) For Square Type AC dampers 2. What are the dimensions of the damper? WidthX Height	e
 4. What type of blade is required? 3V blade Airfoil blade (aluminum only) For Round Type AC damper 2. What is the diameter of the damper ? 3. What style round damper is required? a square-to-round damper []true round damper <i>Minimum depth of square-to-round is 14" to accommodate for the sleeve and collar.</i> Options for BOTH square &round dampers 5. What material is required for the construction of the damper? Galvanized steel (standard) Stainless steel Aluminum 6. What type of actuator/motor is required? Electric (actuators work automatically to open and close a damper after ress Pneumatic (actuators operate by a combination of force created by air and Manual Hand Quadrant 	AC10-AF ponding to a signal.) spring force.)
 (<i>If yes, Belimo brand required</i>) 9. What brand actuator is required? Siemens (standard) Belimo 	Multiple Sections Model MIN MAX AC10 6' 6' 0'
MEMBER MEMBER LLOYD INDUST	IRIDES INC.

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Description: Used in applications that require intake and exhaust ventilation with moderate protection from rain and weather infiltration.

Required information:

- 1. What are the dimensions of the louver? Width _X Height Louvers are supplied 1/4" less than ordered size unless "actual size" is specified.
- 2. What type of louver do you need?
 - Storm resistant (2" and 4" depth available)
 - Drainable (4" and 6" depth available, 33° blades available on 4")
 - Chevron (4" depth only)
- 3. What is the depth of the louver? \Box 2" \Box 4" \Box 6"
- 4. What is the frame type of the louver?
 - Channel frame: can be installed flush or recessed in the face of a wall.
 - Flanged frame: hides the edges of the opening.
- 5. What screen is needed?
 - Galvanized steel 1/2" X 1/2" mesh bird screen (standard)
 - Aluminum woven 1/2" X 1/2" mesh bird screen
 - Aluminum 1/16" X 1/16" mesh insect screen
- 6. What material is required for the construction of the louver? Aluminum (standard) Galvanized (2ML or 4ML)
 - Stainless steel (2ML or 4ML)
 - Copper (2ML & 4ML only)
- 7. What finish is desired?
 - Mill finish (standard)
 - Clear anodized
 - Bronze anodized
 - Baked enamel
 - Powder coat

For color finishes, indicate the color at time of quote request. If no color is specified, we will quote the cost of standard colors, actual cost of custom colors may be higher.



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Model 2-SRCF (Channel Frame)



Model 2-SRF (Flanged Frame)

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Brick Vents

Description: A permanent means of ventilation for crawl spaces, hung ceilings, incinerator rooms, chimney flues, foundations, pipe spaces and corridors.

Required information:

1. What are the dimensions of the brick vent? Width X Height

Vents are supplied 1/4" less than ordered size unless "actual size" is specified.

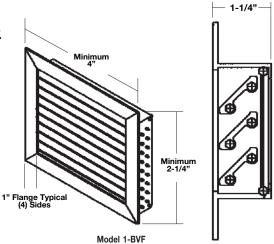
- 2. What is the depth of the brick vent?
 - 1" (Flanged frame)

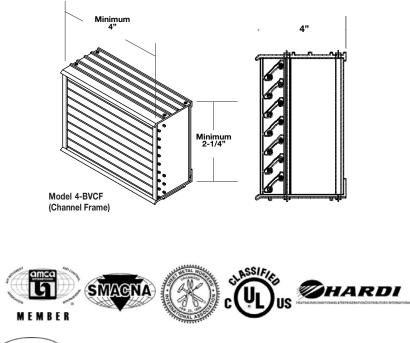
4" (Channel frame)

Channel frame: can be installed flush or recessed in the face of a wall. Flanged frame: hides the edges of the opening.

- 3. What finish is desired?
 - Mill finish (standard)
 - **Clear anodized**
 - **Bronze anodized**
 - Baked enamel
 - Powder coat

For color finishes, indicate the color at time of quote request. If no color is specified, we will quote the cost of standard colors, actual cost of custom colors may be higher.





Date:	
Wholesaler Name:	
Location:	
Salesman:	
Phone:	
Contractor Company:	
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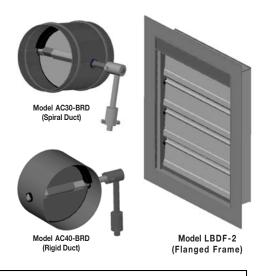


Back-Draft Dampers

Description: Dampers designed to allow air to flow in one direction and pre-

vent reverse airflow. **Required information:** For rectangular dampers What is the orientation (mount) of the damper? 1. Horizontal (used when flow upwards only) Vertical (used when flow is horizontal, in wall) Back draft dampers cannot be used for downdraft applications. What are the dimensions of the damper? 2. Width X Height Dampers are supplied ¹/₄" less than ordered size unless "actual size" is specified. 3. What is the frame type of the damper? Channel frame: can be installed flush or recessed in the opening. Flanged frame: hides the edges of the opening. For flanged frame, blades open: Toward the flange \square To intake air Away from the flange □ To exhaust air 4. Where is the flange located? Front flange (Standard) (Toward flange) Rear flange (Away from flange) Counter-balance weights need?: Yes 5. □ No □ To assist closing □ To assist opening 6. Is a round transition sleeve needed? Yes No Diameter 7. What finish is desired? Mill finish (standard) Clear anodized Bronze anodized Baked enamel Powder Coat П For color finishes, indicate the color at time of quote request. If no color is specified, we will quote the cost of standard colors, actual cost of custom colors may be higher. For true round dampers 1. What is the diameter? Dampers are supplied $\frac{1}{4}$ less than ordered size unless "actual size" is specified. 2. What style is the damper? □ AC30-BRD (for spiral duct) □ AC40-BRD (for rigid duct) 3. What material is needed? Galvanized ☐ Stainless 4. What bearings are needed? Celcon Bronze 5. What shaft length is needed? \square 3 inch 4 inch





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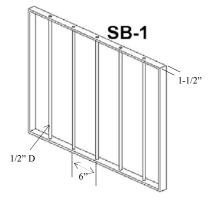
Security Bars

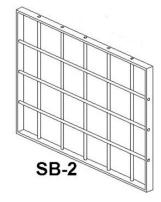
Description: Security bars are available in cold rolled steel construction to guard access to restricted areas.

Required information:

- 1. What are the dimensions of the security bars? X Height Width Bars are supplied 1/4" less than ordered size unless "actual size" is specified.
- 2. Are the bars vertical only or both vertical and horizontal?
 - Vertical (SB-1)
 - Vertical and Horizontal (SB-2)
- 3. What finish is desired?
 - **Unfinished (standard)**
 - Painted
 - Primed

Steel construction available only.





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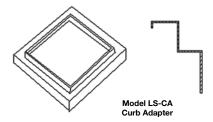
Roof Curbs

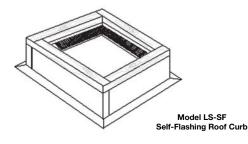
Description: Curbs are designed to be placed over a hole in a roof to support equipment that will be placed on top of the curb such as an air handler, fan, etc.

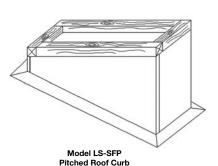
Required information:

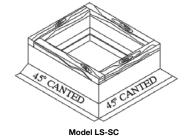
- 1. What type of roof curb is required?
 - □ Self-flashing
 - □ Canted
 - □ Pitched—What is the pitch?_____
 - □ Curb adapter
- 2. What are the dimensions of the curb? Length Width Height If ordering a curb adapter, specify bottom dimensions first.
- 3. What material is required for the construction of the curb? Galvanized steel (LS)
 - ☐ Aluminum (LA)
- □ Yes 4. Is a damper tray needed? No A damper tray is an integral part of a curb that another damper can connect to.
- 5. Are security bars needed? □ Yes 🗆 No □ Vertical (SB-1)
 - □ Vertical and Horizontal (SB-2)



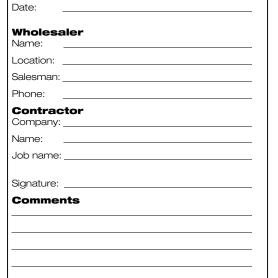








Canted Roof Curb







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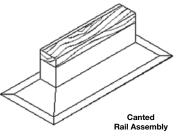
Equipment Support Rails

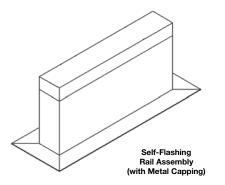
Description: Used for supporting equipment on a roof such as piping, HVAC units and other heavy equipment.

Required information:

- 1. What type of rail is needed? □ Self-flashing
 - Canted
- 2. What are the dimensions of the rail? Length_____Width_____Height_____
- 3. What material is required for the construction of the rail? ☐ Galvanized steel (LS) ☐ Aluminum (LA)
 - Aluminum (LA)
- 4. Is metal capping required? □ Yes □ No













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Access Doors

Description: Access doors are designed to provide entry to ductwork to access fire products.

Required information:

- 1. What type of access door is required a. Standard mount for duct work Specify: ☐ Hinged ☐ Cammed b. Stick-on mount for duct work Specify: Hinged Cammed c. Standard for sheet rock (only available in aluminum construction) Specify: Slot key Key lock d. Walk-In Access Door (standard latches apply on this model) Keyed Latch $\Box 2$ inch $\Box 1$ inch
 - e. Fire-rated access door (Model FRAD-V)
- 2. What are the dimensions of the door?

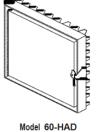
Width Height

Pipe diameter (Models 65 RCAD & 60 RHAD). Round access doors are not "true" round but square or rectangular fitted with round pipe adapter (saddle type)

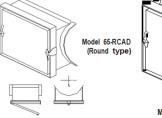
- 3. What material is required for the construction of the product?
 - Galvanized Steel (standard if not specified)
 - Stainless Steel
 - Aluminum Powder coat
- 4. Are tabs required for access door? 1" tabs 1.5" tabs (duct-mounted access doors only)
- 5. Is a viewport required? 🗌 Yes 🔲 No

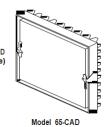


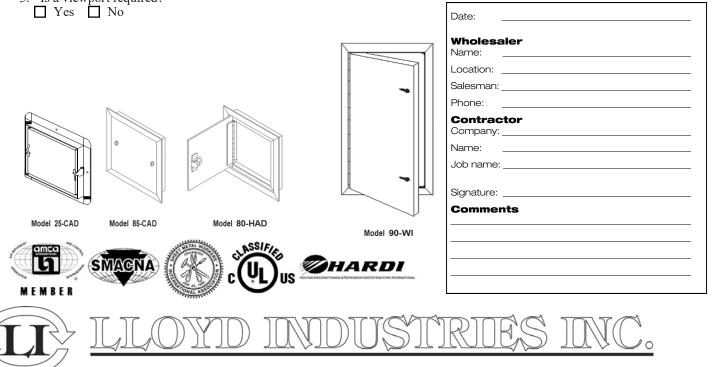












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14

Ceiling Thermal Blankets

Description: For field installation on the back of steel "lay-in" diffusers, or tapered neck diffusers in ceiling applications.

Required information:

1. What is the size of the blanket?

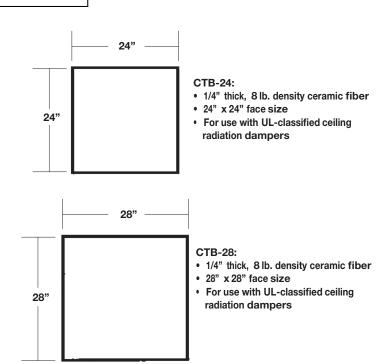
$$\Box \begin{array}{c} 24^{"} \\ 36^{"} \\ \end{array}$$

2. Does the blanket require scrim?

$$\square \stackrel{\text{Yes}}{\sqcap} No$$

• Scrim is 6" long "X" pattern and die-cut with wire reinforcement on the blanket.





Wholesaler Name:
Location:
Salesman:
Phone:
Contractor Company:
Name:
Job name:
Signature:
Comments





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Certified to BS 476 Part 20 4 Hour by BRANZ Ltd.

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