

# NOTICE

Please note that this bid from Tom Brown, Inc. for CRFQ DOT16\*86 was received at the Purchasing Division office prior to the established bid opening date and time on April 21, 2016 as noted on the coversheet, but was unable to load properly through wvOASIS at the public bid opening. This bid has since been loaded and is now posted.

A handwritten signature in cursive script, reading "Diane Holley-Brown", is written over a solid horizontal line.

Diane Holley-Brown  
Assistant Purchasing Director



## Exhibit 2

Solicitation Response(SR) Dept: 0211 ID: ESR04201600000005077 Ver.: 1 Function: New Phase: Final Modified by batch... 04/21/2016

**Header**

**General Information** Contact Default Values Discount Document Information

Procurement Folder: 209322  
Procurement Type: Agency Purchase Order  
Vendor ID: 000000199924  
Legal Name: F M PILE HARDWARE CO INC  
Alias/DBA:  
Total Bid: \$1,000.00  
Response Date: 04/20/2016  
Response Time: 15:46

SO Doc Code: ARFQ  
SO Dept: 0211  
SO Doc ID: GSD1600000162  
Published Date: 4/15/16  
Close Date: 4/21/16  
Close Time: 13:00  
Status: Closed  
Solicitation Description: Toro Lawn Mower Parts

## **BACKGROUND**

The wvOASIS system is a web-based, enterprise-wide financial application that runs on multiple servers. When a vendor submits a Solicitation Response document in the Vendor Self Service (VSS) portal, the document remains sealed in the VSS electronic lockbox until the solicitation closing date and time are reached. Then, the responses are copied from the lockbox to the procurement folder by a synchronizing interface. The Purchasing Division is not able to access electronic solicitation responses until they are exported from the lockbox to the procurement folder. The synchronizing interfaces, or sync cycle, run every hour at the bottom of the hour, from 7:30 AM to 5:30 PM weekdays.

## **ANALYSIS**

Members of the wvOASIS Technical Team identified the cause of the issue relating to the April 21, 2016 1:30 PM ESR documents. The system clocks on two wvOASIS servers were out of sync by a matter of seconds. This caused the 1:30 PM sync cycle to begin at 1:29 PM. Because the ESRs relating to the five centralized solicitations were not eligible to be interfaced until after their 1:30 PM closing time, they were not copied to their respective procurement folders until the completion of the 2:30 PM sync cycle. It should be noted that the decentralized ESR shown in Exhibit 2 had a closing time of 1:00 PM, making it eligible to be interfaced at 1:29 PM.

## **CONCLUSION**

After careful review, it is our conclusion that the ESR documents relating the five centralized solicitations were received in the wvOASIS system prior to the 1:30 PM closing time and should be considered valid bids by the Purchasing Division. The specific ESR documents are:

### **CRFQ 0603 ADJ1600000020**

Solicitation Response SR,0603,ESR04061600000004696,1  
Solicitation Response SR,0603,ESR04191600000005013,1  
Solicitation Response SR,0603,ESR04191600000005025,1  
Solicitation Response SR,0603,ESR04201600000005072,1  
Solicitation Response SR,0603,ESR04201600000005074,1  
Solicitation Response SR,0603,ESR04201600000005079,1

**CRFQ 0203 CPR1600000001**

No solicitation responses received

**CRFQ 0803 DOT1600000083**

Solicitation Response SR,0803,ESR03281600000004481,1

**CRFQ DOT1600000086**

Solicitation Response SR,0803,ESR04201600000005078,1

Solicitation Response SR,0803,ESR04201600000005081,1


**CRFQ DNR1600000028**


Solicitation Response SR,0310,ESR04211600000005085,1







Solicitation Response SR,0310,ESR04211600000005092,1



The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at ***WVPurchasing.gov*** with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.



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Welcome, Lu Anne Cottrill

Procurement



Budgeting

Accounts Receivable

Accounts Payable

Solicitation Response(SR) Dept: 0803 ID: ESR0420160000005078 Ver: 1 Function: New Phase: Final  Modified by batch , 04/21/2016

Header

 List View 

General Information

Contact


Default Values

Discount

Document Information

Procurement Folder: 198338


Procurement Type: Central Master Agreement

Vendor ID:  

Legal Name: TOM BROWN INC

Alias/DBA:

Total Bid: \$446.47

Response Date:  

Response Time:

SO Doc Code: CRFQ

SO Dept: 0803



SO Doc ID: DOT160000006

Published Date: 3/25/16

Close Date: 4/21/16

Close Time: 13:30

Status: Closed

Solicitation Description:    


Total of Header Attachments: 0

Total of All Attachments: 0



Purchasing Division  
2019 Washington Street East  
Post Office Box 50130  
Charleston, WV 25305-0130

State of West Virginia  
Solicitation Response

Proc Folder : 198338

Solicitation Description : PREFORMED SILICON FOAM BRIDGE EXPANSION JOINT SYSTEM

Proc Type : Central Master Agreement

Date issued	Solicitation Closes	Solicitation No	Version
	2016-04-21 13:30:00	SR 0803 ESR04201600000005078	1

VENDOR

000000159743  
TOM BROWN INC

FOR INFORMATION CONTACT THE BUYER

Sheila L Hannah  
(304) 558-4317  
sheila.l.hannah@wv.gov

Signature X	FEIN #	DATE
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All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	JOINT SYSTEM 1/2" WIDE	1.00000	LF	\$4.700000	\$4.70

Comm Code	Manufacturer	Specification	Model #
30121715			

Extended Description : PROFORMED SILICON COATED FOAM BRIDGE EXPANSION  
JOINT SYSTEM 1/2" WIDE

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	JOINT SYSTEM 3/4" WIDE	1.00000	LF	\$5.240000	\$5.24

Comm Code	Manufacturer	Specification	Model #
30121715			

Extended Description : PROFORMED SILICON COATED FOAM BRIDGE EXPANSION  
JOINT SYSTEM 3/4" WIDE

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	JOINT SYSTEM 1" WIDE	1.00000	LF	\$5.770000	\$5.77

Comm Code	Manufacturer	Specification	Model #
30121715			

Extended Description : PROFORMED SILICON COATED FOAM BRIDGE EXPANSION  
JOINT SYSTEM 1" WIDE

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
4	JOINT SYSTEM 1 1/4" WIDE	1.00000	LF	\$6.310000	\$6.31

Comm Code	Manufacturer	Specification	Model #
30121715			

Extended Description : PROFORMED SILICON COATED FOAM BRIDGE EXPANSION  
JOINT SYSTEM 1 1/4" WIDE



Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
5	JOINT SYSTEM 1 1/2" WIDE	1.00000	LF	\$20.420000	\$20.42

Comm Code	Manufacturer	Specification	Model #
30121715			

Extended Description : PROFORMED SILICON COATED FOAM BRIDGE EXPANSION  
JOINT SYSTEM 1 1/2" WIDE

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
6	JOINT SYSTEM 2" WIDE	1.00000	LF	\$23.620000	\$23.62

Comm Code	Manufacturer	Specification	Model #
30121715			

Extended Description : PROFORMED SILICON COATED FOAM BRIDGE EXPANSION  
JOINT SYSTEM 2" WIDE

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
7	JOINT SYSTEM 2 1/2" WIDE	1.00000	LF	\$29.110000	\$29.11

Comm Code	Manufacturer	Specification	Model #
30121715			

Extended Description : PROFORMED SILICON COATED FOAM BRIDGE EXPANSION  
JOINT SYSTEM 2 1/2" WIDE

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
8	JOINT SYSTEM 3" WIDE	1.00000	LF	\$33.410000	\$33.41

Comm Code	Manufacturer	Specification	Model #
30121715			

Extended Description : PROFORMED SILICON COATED FOAM BRIDGE EXPANSION  
JOINT SYSTEM 3" WIDE

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
9	JOINT SYSTEM 3 1/2" WIDE	1.00000	LF	\$42.360000	\$42.36

Comm Code	Manufacturer	Specification	Model #
30121715			

Extended Description : PROFORMED SILICON COATED FOAM BRIDGE EXPANSION  
JOINT SYSTEM 3 1/2" WIDE

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
10	JOINT SYSTEM 4" WIDE	1.00000	LF	\$47.240000	\$47.24

Comm Code	Manufacturer	Specification	Model #
30121715			

Extended Description : PROFORMED SILICON COATED FOAM BRIDGE EXPANSION  
JOINT SYSTEM 4" WIDE

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
11	JOINT SYSTEM 4 1/2" WIDE	1.00000	LF	\$49.880000	\$49.88

Comm Code	Manufacturer	Specification	Model #
30121715			

Extended Description : PROFORMED SILICON COATED FOAM BRIDGE EXPANSION  
JOINT SYSTEM 4 1/2" WIDE

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
12	JOINT SYSTEM 5" WIDE	1.00000	LF	\$53.570000	\$53.57

Comm Code	Manufacturer	Specification	Model #
30121715			

Extended Description : PROFORMED SILICON COATED FOAM BRIDGE EXPANSION  
JOINT SYSTEM 5" WIDE

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
13	JOINT SYSTEM 5 1/2" WIDE	1.00000	LF	\$56.980000	\$56.98

Comm Code	Manufacturer	Specification	Model #
30121715			

Extended Description :	PROFORMED SILICON COATED FOAM BRIDGE EXPANSION JOINT SYSTEM 5 1/2" WIDE
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Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
14	JOINT SYSTEM 6" WIDE	1.00000	LF	\$67.860000	\$67.86

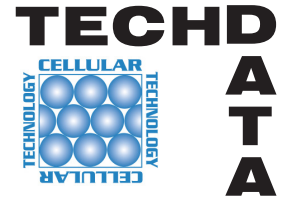
Comm Code	Manufacturer	Specification	Model #
30121715			

Extended Description :	PROFORMED SILICON COATED FOAM BRIDGE EXPANSION JOINT SYSTEM 6" WIDE
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## BEJS SYSTEM

Watertight Joint System for Road Bridges



### Product Description

The BEJS SYSTEM, Bridge Expansion Joint System, builds on a track record of over 30 years of sealing horizontal plane joints with pre-compressed foam sealants.

The system is comprised of a precompressed, silicone-and-foam hybrid installed into field-applied epoxy adhesive on the joint faces; with the silicone bellows locked to the joint faces with a silicone sealant band (see Fig. 1).

The BEJS SYSTEM features an innovation in sealant technology in the form of a microsphere-modified, 100% acrylic impregnation infused into the cellular foam base material.

The material is odorless, clean handling, UV stable, non-staining, and features low temperature flexibility not previously available in asphalt, wax, or isobutylene-based predecessors or competitors.

The result is extension of the usability of the product to applications where asphalt and wax-based predecessors did not work well under conditions of thermal shock (rapid opening and closing of joints during large temperature swings). These applications include joint-face adhered installations on bridge decks, wing walls, abutments, jersey barriers, precast panels, etc.

Suitability is further extended to applications in colder geographical regions to which asphalt and wax-based predecessors have not previously been recommended.

### Features

**Watertight**—the tensionless silicone bellows are installed just below the deck surface. This ensures watertightness is achieved at the deck surface.

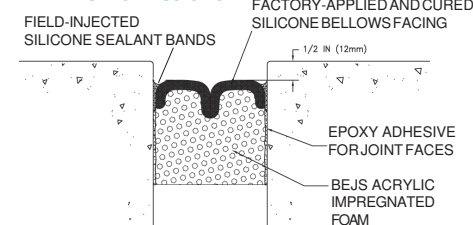
**Non-Invasive Anchoring**—there are no hard metal-to-concrete connections with the BEJS SYSTEM. This includes embedded pins, anchors, screws, bolts or tracks, trays or rails. The system is locked to the joint faces by means of the backpressure of the foam; the epoxy adhesive; and the injected silicone sealant band at the joint face to foam and silicone bellows interface.

**Continuity of Seal**—as in all EMSEAL expansion joint systems, continuity of seal through changes in plane and direction is an essential performance differentiator. "Universal 90's", "Kickout Terminations" and "Custom Transitions" are factory fabricated transition pieces

### Uses

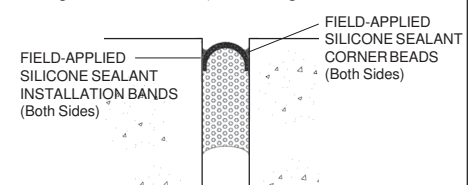
- Watertight, traffic durable, joint-face-adhered, precompressed, **primary seal** for retrofit and new expansion joints in road bridges, wing walls, abutments, jersey barriers, longitudinal joints, precast panels, etc.
- Ideal for new construction and retrofit bridge preservation of old or failed joint systems in concrete or rebuilt joint edges. Use in embedded metal angles where demolition or removal of the metal angles is not feasible and where existing joint opening is suited to the movement capability of BEJS.
- Ideal for lasting replacement of failed caulk joints.

**Fig.1: BEJS SYSTEM in Typical Installation-- New or Retrofit**

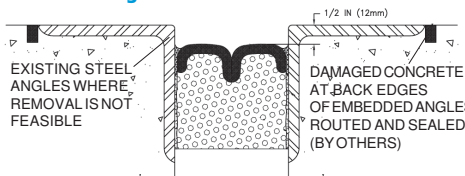


**Fig.2: BEJS-ON-A-REEL for Joints 1/2" (12mm) - 1 1/4" (30mm)**

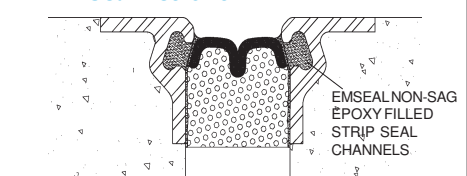
Note: Material sizes less than 1 1/4" (30mm) are supplied on 12-LF long reels with a smooth, convex single bellows as shown.



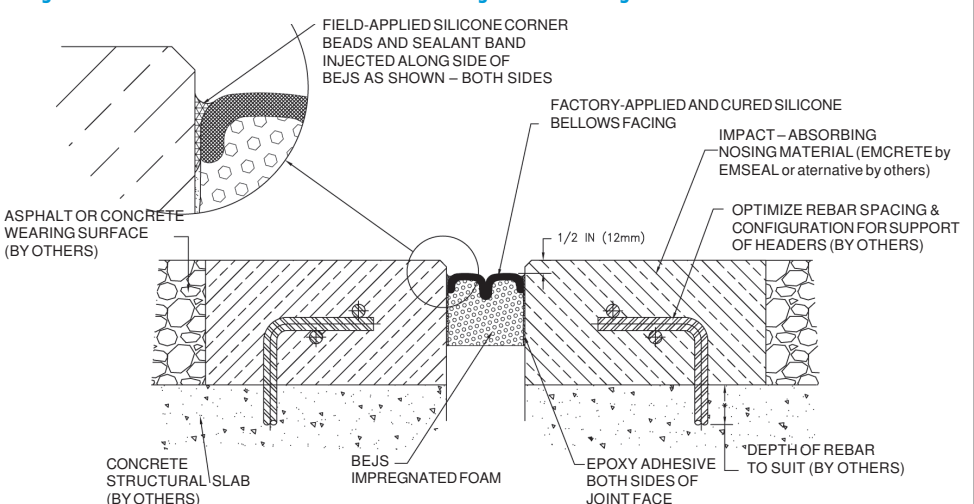
**Fig.3: BEJS SYSTEM in Existing Steel Angles--Retrofit**



**Fig.4: BEJS SYSTEM in Existing Strip-Seal Retrofit**



**Fig.5: BEJS SYSTEM in New or Rebuilt Joint Edges with Nosing Material**



from EMSEAL that can be installed at inside corners and outside corners as needed and are warranted by EMSEAL to be watertight through the entire movement capability of the product. Alternatively, details for field-fabricated transitions from deck to wall, at curbs, sidewalks, parapets, tees, and crosses are available from EMSEAL.

### Movement Capability

+50% and -50% (Total 100%) of nominal material size.

**Aesthetics & Versatility**—Standard color is black. Uniform bellows appearance, fuel resistance, and an enhanced ability to handle variations in joint size are among other system features.

## Performance

- Substrates must be parallel, plumb and capable of resisting approx. 2.5 psi backpressure from the foam.
- Standard sizes from 1/2" (12mm) to 4" (100mm). Other sizes available subject to review of application: consult EMSEAL.
- Fuel Resistance: Silicone sealant is not degraded by contact with fuel. Some swelling of the silicone material will normally occur, but it will return to its original shape upon evaporation of the fuel.

## Composition

- BEJS is produced by coating an impregnated cellular foam with highway-grade silicone.
- The silicone external facing is factory applied to the foam at a width greater than maximum joint extension and is cured before final compression.
- Silicone application and curing takes place in a factory-controlled environment. In contrast to field applied liquid sealant and backer rod installations, no movement takes place during curing that can cause deformation or stresses in the material.
- When compressed, a bellows is created in the coating. As joint movement

occurs the bellows simply folds and unfolds free of tension on the bondline, and virtually free of tensile stresses in the silicone material.

- The foam provides a resilient backing to the silicone coating, making the system capable of resisting reasonable transient point loads.
- BEJS SYSTEM is precompressed to less than the joint size for easy insertion. After removal from the shrink-wrap and hard board restraining packaging, it expands gradually.

## Installation

**IMPORTANT:** The following instructions are a summary. Refer to "BEJS SYSTEM Install Data" and job-specific instructions of an EMSEAL technician for complete procedures.

- Store indoors at room temperature. Expansion is quicker when warm, slower when cold.
- Properly prepare substrates.
- Ensure material nominal size matches joint size.
- Mix epoxy and trowel a thin layer onto the joint faces to at least the depth of the BEJS foam
- Apply a thin layer of epoxy to both sides of the joint face.

- Remove shrink-wrap packaging, hardboard. If necessary, heat using torch to expand material to a snug fit in the joint.
- Insert material into joint with a 1/2" (12mm) recess.
- Join lengths by pushing silicone coated ends firmly together.
- Wipe silicone facing using clean, lint-free rag made damp with solvent.
- Before the epoxy cures, force the tip of the sealant tube between the foam and the substrate and inject a silicone sealant band. Tool overflow sealant into a cove bead between the top of the silicone bellows and the substrate. Tool silicone between joined lengths so that bellows is not restrained by excess silicone.

## Warranty

Standard or project-specific warranties are available from EMSEAL on request.

## CAD Details & Guide Specs

Guide specifications and CAD details are available at [www.emseal.com](http://www.emseal.com).

## Availability & Price

BEJS SYSTEM is available for shipment internationally. Prices are available from local representatives and/or directly from the manufacturer. The product range is continually being updated, and accordingly EMSEAL® reserves the right to modify or withdraw any product without prior notice.

**Table 1: Typical Physical Properties of BEJS Foam**

Property	Value	Test Method
BASE MATERIAL	CELLULAR, HIGH DENSITY, POLYURETHANE FOAM	N/A
Impregnation	Proprietary, modified, water-based, acrylic	N/A
TEMPERATURE SERVICE RANGE		ASTM C711
HIGH	185°F (85°C)	
LOW	-40°F (-40°C)	
UV RESISTANCE	No CHANGES--2000 HOURS	ASTM G155-00A
(Accelerated Weatherometer)		
RESISTANCE TO AGING	No CHANGES--2000 HOURS	ASTM G155-00A
Bleeding:	No bleeding when compressed to minimum of claimed movement i.e. -50% of nominal size and when simultaneously heated to 180°F (85°C) FOR 3 HOURS	
-40°F to 180°F (-40°C to 85°C)		
COMPRESSION SET	MATERIAL RECOVERS TO +50% OF NOMINAL SIZE WITHIN 24 HOURS OF COMPRESSION TO -50% AND SIMULTANEOUS HEATING TO 180°F (85°C) FOR 3 HOURS	

**Table 2: Typical Physical Properties of Silicone Coating**

Property	Value
COLOR	BLACK
Percent Solids (minimum)	96
SPECIFIC GRAVITY	1.26 - 1.34
Following tests conducted on Sealant Cured after 21 days at 25°C (77°F) and 50% RH:	
ELONGATION PERCENT MINIMUM	1400
Joint Modulus at 50 percent Elongation, psi (kPa) maximum	7(48)
JOINT MODULUS AT 100 PERCENT ELONGATION, PSI (KPA) MAXIMUM	8(55)
Joint Modulus at 150 percent Elongation, psi (kPa) maximum	9(62)
ADHESION TO CONCRETE, MINIMUM PERCENT ELONGATION	+600
Adhesion to Asphalt, minimum percent Elongation	+600
JOINT MOVEMENT CAPABILITY, +100/-50 PERCENT, 10 CYCLES	NO FAILURE
Weatherability	Unaffected by climatic extremes
FLEXIBILITY	CURED SEALANT STAYS RUBBERY FROM -45 TO 149°C (-50 TO 300°F)

**Table 3: Approximate Volume Change of Silicone Coating after Exposure to Fluids:**

Percent Volume Swell - Visual	
Fluid	Silicone Joint Sealant
JP-4	5-20 PERCENT
Skydrol B	None
50/50 GLYCOL/H <sub>2</sub> O	NONE
Hydraulic Fluid	None

AFTER DRYING, ALL SAMPLES PASSED +100/-50% MOVEMENT TESTING.

**Table 4: BEJS SYSTEM Sizing**  
(see "Performance" for movement capabilities & limitations)

Nominal Material Size (Joint Size at Mean T°F)	Depth of Seal	Min. Joint (closes to)	Max. Joint (opens to)
1/2" (12mm)	1 3/4" (45mm)	1/4" (6mm)	3/4" (20mm)
3/4" (20mm)	1-3/4" (45mm)	3/8" (10mm)	1-1/8" (28mm)
1" (25mm)	1 3/4" (45mm)	1/2" (12mm)	1-1/2" (40mm)
1-1/4" (30mm)	2" (50mm)	5/8" (15mm)	1-7/8" (47mm)

The following sizes are supplied in shrink-wrapped sticks of 6.56 ft. (2 M):

1-1/2" (40mm)	2 1/2" (65mm)	3/4" (20mm)	2-1/4" (55mm)
1-3/4" (45mm)	2-1/2" (65mm)	7/8" (22mm)	2-5/8" (68mm)
2" (50mm)	2-1/2" (65mm)	1" (25mm)	3" (75mm)
2-1/4" (55mm)	2-1/2" (65mm)	1-1/8" (28mm)	3-3/4" (95mm)
2-1/2" (65mm)	2-3/4" (70mm)	1-1/4" (30mm)	3-3/4" (95mm)
2-3/4" (70mm)	2-3/4" (70mm)	1-3/8" (35mm)	4-1/8" (105mm)
3" (75mm)	2-3/4" (70mm)	1-1/2" (40mm)	4-1/2" (115mm)
3-1/4" (85mm)	3-1/2" (90mm)	1-5/8" (42mm)	4-7/8" (120mm)
3-1/2" (90mm)	3-1/2" (90mm)	1-3/4" (45mm)	5-1/4" (135mm)
3-3/4" (95mm)	3-1/2" (90mm)	1-7/8" (47mm)	5-5/8" (140mm)
4" (100mm)	3-1/2" (90mm)	2" (50mm)	6" (150mm)

- For sizes not shown consult EMSEAL.
- Select nominal material size to correspond to joint-gap size at mean temperature.