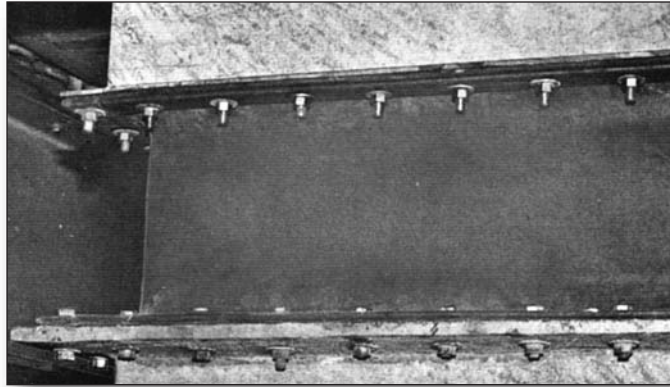


# 942 U-DESIGN

## For Standard Movements



### FLUE DUCT JOINTS FOR DUCTING SYSTEMS



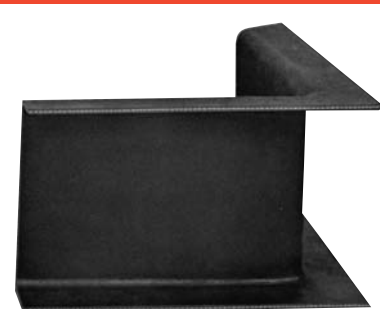
**HOLZ RUBBER STYLE 942 U-DESIGN EXPANSION JOINTS** are designed specifically for normal ducting movements. For applications requiring standard movement, maximum noise, vibration, and sound absorption, the Style 942 offers superior protection to duct systems, flanges and equipment housing.

#### BENEFITS OF STYLE 942 U-DESIGN

- **ELIMINATION OF CORNER FAILURES**  
Each corner is fabricated independently in a fully *molded* configuration without splices.
- **ELIMINATION OF HEAVY DUCTWORK**  
The low spring rates of the expansion joints allow movement to occur without excessive forces on the flanges or ductwork.
- **ELIMINATION OF COSTLY GASKETS**  
The integral rubber flange acts as a built-in gasket.
- **LONGER LIFE**  
The superior abrasion resistance of rubber adds to the life of the expansion joint.
- **ADAPTABILITY**  
Available in round or rectangular configurations with variable face to face dimensions, the expansion joint may be made to fit existing ductwork very easily.
- **CHEMICAL RESISTANCE**  
The chemical resistance characteristics of rubber allow the selection of the material which best suits each application.

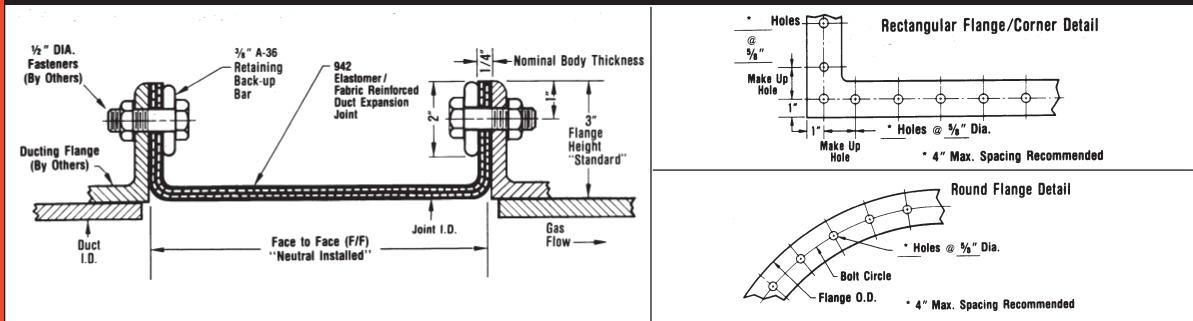
#### MATERIALS & TEMPERATURE SELECTION CHART

MAXIMUM CONTINUOUS OPERATING TEMPERATURES	MATERIAL		HOLZ RUBBER MATERIAL CODE	TYPICAL APPLICATION
	TOWARD GAS FLOW TUBE	TOWARD ATMOSPHERE COVER		
250°F	Neoprene	Neoprene	333	Hot Oily Air/Gas Special Chemicals
250°F	Hypalon	Hypalon	666	
300°F	Butyl	Butyl	555	Hot Non-Oily Air/Gas Hot Air/Gas Very Hot Air/Gas
300°F	E.P.D.M.	E.P.D.M.	777	
400°F	Viton	Viton	888	



**Rectangular Corner**

# Typical Installation Arrangement



## Maximum Movement Capabilities (Inches)

Movement At Shown Face To Face	6" F/F			9" F/F			12" F/F			16" F/F		
	Axial Compression	Axial Extension	Lateral Offset	Axial Compression	Axial Extension	Lateral Offset	Axial Compression	Axial Extension	Lateral Offset	Axial Compression	Axial Extension	Lateral Offset
	.75	.25	.5	1.25	.25	.75	2.0	.5	1.0	3.0	.5	1.5

### NOTES:

- Lateral offset figures are based on the assumption that all lateral movement occurs prior to compression movements. In practice, movements may occur simultaneously thus the allowable lateral offset may increase. Contact HOLZ RUBBER for information.
- Extension may be increased by pre-compression during installation. However, the amount of pre-compression will correspondingly reduce the compression rating.
- Anchors should be located so rated movement is not exceeded.

## Pressure/Vacuum Ratings

Nominal Body Thickness	Number of Body Plies	Pressure/Vacuum			
		PSIG	In. H <sub>2</sub> O	kPa	Excursion PSIG
1/8"	1	±1	±28	±6.9	±2
1/4"	2	±3	±83	±20.7	±5
3/8"	3	±5	±138	±34.5	±8

Vacuum Applications:  
For constant vacuum a set-back may be required to ensure the joint is not in the media stream.

## Product Weight

Nominal Body Thickness	pounds per (sq. ft.)		(Linear ft.)
	Elastomer		
	EPDM	VITON	
1/8"	.70	1.1	5.0
1/4"	1.1	1.7	
3/8"	1.7	2.5	

Add 6 inches to the FACE to FACE dimension for calculating the square footage.  
Retaining Bars: 3/8" x 2" A-36 Carbon Steel.

## Simplified 942 Specification

- Furnish fabric reinforced elastomer expansion joint for a hot gas duct system.
- Expansion Joint
  - The expansion joint shall be manufactured in U-design configuration with a minimum of one ply of asbestos-free reinforcement fabric vulcanized into a homogeneous product \_\_\_\_\_" nom. thick. The flanges shall be an integral part of the expansion joint.
  - The expansion joint shall be constructed with fully molded corners. Splices will not be allowed in the body of the expansion joint in the corner areas.
- The expansion joint will be designed for \_\_\_\_\_ psi and to operate at a temperature of \_\_\_\_\_ F°.
- The expansion joint shall be designed to accept the system movements.
- The expansion joints shall be Style 942 as manufactured by HOLZ RUBBER.
- Retaining Bars
  - The retaining bars shall be made of 3/8" x 2" A-36 Carbon Steel.

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