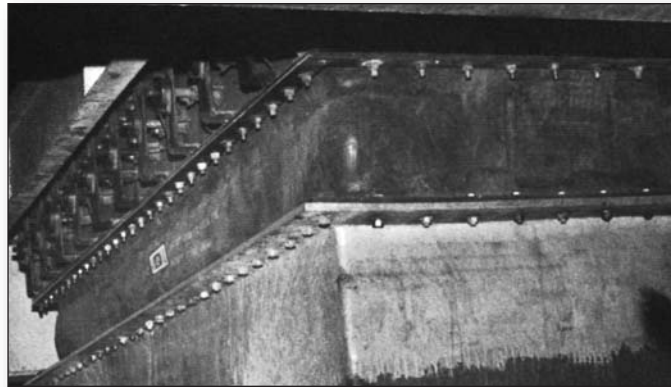


945 W-DESIGN

For Maximum Movements



FLUE DUCT JOINTS FOR DUCTING SYSTEMS



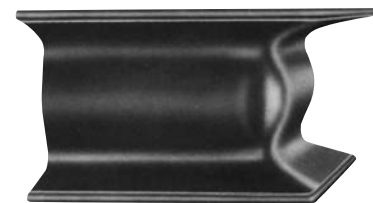
HOLZ RUBBER STYLE 945W-DESIGN EXPANSION JOINTS are the “workhorses” of the HOLZ RUBBER styles. Designed especially for scrubber, precipitator, baghouse and stack hot air or flue gas ducts, the Style 945 offers superior axial and lateral movement capabilities without pre-compression or pre-extension. The compound curve molded corners ensure that the reinforcing material is not pre-stressed at the neutral installed face dimension.

BENEFITS OF STYLE 945-W DESIGN

- **ELIMINATION OF CORNER FAILURES**
Each corner is fabricated independently in a fully *molded* configuration without splices.
- **MARGIN OF ENGINEERED SAFETY**
The arches are molded into the corners at the time of manufacture.
- **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.
- **ELIMINATION OF COSTLY GASKETS**
The integral rubber flange acts as a built-in gasket.
- **ELIMINATION OF HEAVY DUCTWORK**
The low spring rates of the expansion joints allow movement to occur without excessive forces on the flanges or ductwork.
- **LONGER LIFE**
The superior abrasion resistance of rubber adds to the life of the expansion joint.

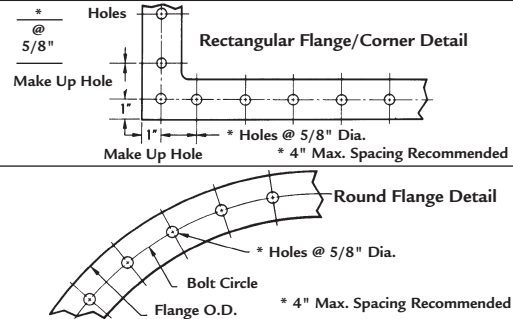
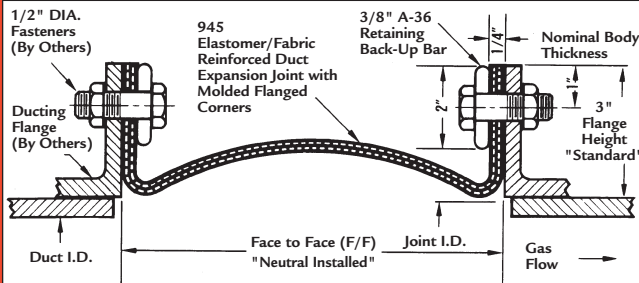
MATERIALS & TEMPERATURE SELECTION CHART

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
	2.0	.50	1.0	3.0	.75	2.0	4.0	1.0	3.0	7.0	1.0	4.0

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 ₂ 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	Retaining Ring/Bars
1/8"	.70	1.1	5.0
1/4"	1.1	1.7	
3/8"	1.7	2.5	

Add 7 inches to the FACE to FACE dimension for calculating the square footage.
Retaining Bars: 3/8" x 2" A-36 Carbon Steel.

Simplified 945 Specification

- Furnish fabric reinforced elastomer expansion joint for a hot gas duct system.
- Expansion Joint
 - The expansion joint shall be manufactured in W-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 compound curve molded corners and straight sections with the arch pre-molded. The arch shall continue throughout the corner and straight sections and shall be fully developed when in the neutral installed position. Pre-compression or tucking of the corner to form the arch will not be permitted.
- The corners on rectangular expansion joints shall be completely molded and free of splices.
- 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 without imposing any significant forces on the ductwork.
- The expansion joints shall be Style 945 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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