



HANNA RUBBER COMPANY

# Specification Sheet

## J-Seal

### J-Seal Requirements

The proposed radial gate J-Seals shall have the same cross-sectional dimensions as the existing J-Seals. The contractor shall measure the existing J-Seal dimensions and/or develop the dimensions based on the original 1978 drawings in order to develop the proposed J-Seal drawings. The contractor shall submit J-Seal material information and J-Seal shop drawings to the owner’s representative for approval.

### Delivery, Storage, and Handling of J-Seals

Store J-Seals in a place which permits free circulation of air, maintains a temperature of 70 degrees f or less, and prevents the rubber from being exposed to the direct rays of the sun. Keep J-Seals free of oils, grease, and other materials which would deteriorate the rubber. J-Seals shall not be distorted during handling.

### Products- J-Seals

J-Seals shall be compounded of neoprene, EPDM or natural rubber, synthetic polyisoprene, or a blend of both, and shall contain reinforcing carbon black, zinc oxide, accelerators, antioxidants, vulcanizing agents, and plasticizers. Physical characteristics of the J-Seals shall meet the following requirements:

Physical Test	Test Value	Test Method Specification
Tensile Strength	2500 PSI (Min)	ASTM D412
Elongation at Break	450% (Min.)	ASTM D412
300 Percent Modulus	900 PSI (Min.)	ASTM D412
Durometer Hardness (Shore Type A)	60 to 70	ASTM D2240
Water Absorption	5% by Weight (Max)	ASTM D471
Compression Set	30% Tensile Strength (Min.)	ASTM D395
Tensile Strength (After Aging 48 Hours)	80% Tensile Strength (Min.)	ASTM D395

### J-Seal Fabrication and Installation

J-Seals shall be continuous over the full length. J-Seals shall be accurately fitted and drilled for proper installation. Bolt holes shall be drilled in the J-Seals by using prepared templates or the retainer bars as templates. Splices shall be on a 45-degree bevel related to the “thickness” of the J-Seal. The surfaces of finished splices shall be smooth and free of irregularities. J-Seals shall be adjusted after installation so that they are slightly compressed in the closed, unwatered condition to prevent excessive depression and wear in the closed, watered condition. Before operating the gates, a suitable lubricant shall be applied to the J-Seal rubbing plates to protect the rubber.