



## Mec-Seal<sup>®</sup> Joint Kit

### **Short Form Specifications**

The Mec-Seal<sup>®</sup> field applied joint insulation kit shall be supplied by Urecon, or approved equal.

### **Application**

The Mec-Seal<sup>®</sup> joint kit is a premium product capable of withstanding the expansion/contraction forces encountered in below-ground district heating piping systems and long term above-ground applications in harsh environments.

### **Product Description**

The Mec-Seal<sup>®</sup> joint insulation kit consists of a pre-formed urethane or polyisocyanurate foam half shell with similar physical properties to the insulation system on the factory insulated pipe. An expanded cross-linked heat shrinkable HDPE casing sleeve with integral polyamide adhesive and butyl mastic hot melt shall be supplied to bond seal and mechanically protect the joint area. The casing sleeve shall have trumpeted and beveled ends to prevent the adhesive and sealant from prematurely sticking to the insulated pipe jacket once the protective packaging material has been removed.

### **Jacket Specifications**

#### **Material:**

UV stabilized cross linked PE polymer type EDP 003-242-00.

#### **Shrinkage:**

Up to 25% shrink rate.

#### **Ends:**

Chamfered (both ends) 45<sup>o</sup> to 60<sup>o</sup>, expanded (trumpeted) for approximately 100 mm (4 in).

#### **Coating:**

The interior of each end contains two consecutive layers of hot melt adhesive type EDP 007-075-10 and mastic adhesive type EDP 233-10-15-20

#### **Packaging:**

All sleeves are visually inspected prior to packaging in white plastic.

### **Limitations**

The HDPE casing portion of the Mec-Seal<sup>®</sup> joint kit incorporates a polyamide adhesive material applied to the inside of the trumpeted ends that may be affected by moisture. It may also be affected if the unit is mishandled, hit or dropped in cold weather. Reasonable care should be taken to protect them from the elements while in storage, and they should not be subjected to physical abuse during cold environment shipping, storage or handling.

**Mec-Seal® joint kit  
submittal data sheet cont'd.**

**Urecon Mec-Seal® Joints**

Part Number	Insulation Casing Size (Expanded Sleeve Size)		HDPE Thickness (installed)	
	mm	<i>in</i>	mm	<i>in</i>
UMJ-90	90	3.5	4.0	0.16
UMJ-110	110	4.3	4.0	0.16
UMJ-125	125	4.9	4.0	.016
UMJ-140	140	5.5	4.0	0.16
UMJ-160	160	6.3	4.0	0.16
UMJ-180	180	7.0	4.0	0.16
UMJ-200	200	7.8	4.0	0.16
UMJ-225	225	8.8	4.0	0.16
UMJ-250	250	9.8	4.2	0.17
UMJ-280	280	11.0	4.3	0.17
UMJ-314	314	12.4	4.3	0.17
UMJ-355	355	14.0	4.3	0.17
UMJ-400	400	15.7	4.2	0.17
UMJ-450	450	17.7	5.0	0.20
UMJ-500	500	19.7	5.4	0.21
UMJ-560	560	22.0	5.7	0.22
UMJ-630	630	24.8	5.7	0.22

\*Standard lengths are: 580 mm (22.8 in)  
780 mm (30.7 in)  
980 mm (38.6 in)

Highlighted areas indicate product submitted for this project.

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