### Aluminum Spir-l-ok Jacket

**Nominal Diameter** | **Pipe Diameter** | **Jacket Diameter** | **Insulation Thickness** | **Approx. Weight Per LF SDR-11**
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¾" | 1.05" | 6.25" | 2.73" | 2.25lb
¾" | 1.05" | 8.25" | 3.73" | 2.75lb
1" | 1.32" | 6.25" | 2.60" | 2.25lb
1" | 1.32" | 8.25" | 3.60" | 2.75lb
1½" | 1.90" | 6.25" | 2.30" | 2.25lb
1½" | 1.90" | 8.25" | 3.30" | 2.75lb
2" | 2.38" | 6.25" | 2.07" | 3.00lb
2" | 2.38" | 8.25" | 3.07" | 4.00lb
3" | 3.50" | 6.25" | 2.50" | 3.60lb
3" | 3.50" | 8.25" | 3.50" | 4.60lb
4" | 4.50" | 8.25" | 2.00" | 5.45lb
4" | 4.50" | 10.25" | 3.00" | 6.85lb
4" | 4.50" | 12.75" | 4.12" | 8.28lb
6" | 6.62" | 10.25" | 1.81" | 9.10lb
6" | 6.62" | 12.75" | 3.00" | 10.55lb
8" | 8.62" | 12.75" | 2.00" | 10.75lb
8" | 8.62" | 15.75" | 3.56" | 13.20lb
10" | 10.75" | 15.75" | 2.50" | 15.25lb
10" | 10.75" | 18.00" | 3.62" | 18.00lb
12" | 12.75" | 18.00" | 2.62" | 22.15lb

- **HDPE SDR-17 to HDPE SDR-7** Core Pipe available.
- 20’ or 40’ lengths available.
- 12’-14” cutbacks for ¾” to 6” core pipe 8’-14” cutbacks for 6”-12” core pipe.
- 3b - 4b density rigid CFC free polyurethane foam.
- Insulated pipe with heat trace on request.
- Pipe ends are sealed with butyl mastic (ions oil).
- Alignment Spacer As Required

### GENERAL

Preinsulated HDPE piping is used for potable water, sewer and storm drain applications. In 20 or 40 foot lengths with Standard Component (HDPE) fittings.

### SERVICE PIPE

Carrier pipe shall be high density polyethylene (HDPE), conforming to ASTM D-3350. Pipe and fittings are manufactured from extra high molecular weight polyethylene compound E4710 and fabricated to Standard Dimensional Ratio (SDR) wall thickness in standard IPS sizes. Available pressure ratings range from 50 psi (SDR-32.5) to 255 psi (SDR-7.3) at 73° F, with operating temperatures from -50°F and lower, to +140°F by applying an appropriate design factor.

### INSULATION

Insulation shall be rigid, 90 to 95% closed cell polyurethane with 2 to 4 pounds per cubic foot density and a “K” factor of .14 at 75°F per ASTM C 518. The polyurethane foam shall be CFC free and comply with HH-I-1751/4. The polyurethane foam shall be injected into the annular space with low-pressure foam equipment. Centering spacers shall be factory-installed to insure uniform insulation around the pipe. Insulation thickness shall be as shown on the table in the contract drawings, but not less than 1.3”. Maximum temperature rating is -40°F to 240°F.

### JACKET

A special aluminum class 5052-H32 marine grade aluminum with 16-gauge wall thickness. Jacket shall be watertight and be able to withstand 5 foot water head test.

### MOISTURE BARRIER

Mastic moisture barriers shall be factory-applied to each pipe end. End seals shall be mastic completely sealing the exposed end of the insulation.

### Fittings

Shall be heat fusion butt-welded to adjacent pipe sections. Fittings are either HDPE butt fused bare fittings, insulated with a two peace polyurethane foam half shell set with a Polyurea jacket, or a preinsulated HDPE fitting with a appropriate HDPE stub.

### FIELD JOINT CLOSURES

All joints shall be field-insulated per the manufacturer’s recommendation, using a two-part foam injection method or a pre-formed half shell with a full-length Aluminum Band.