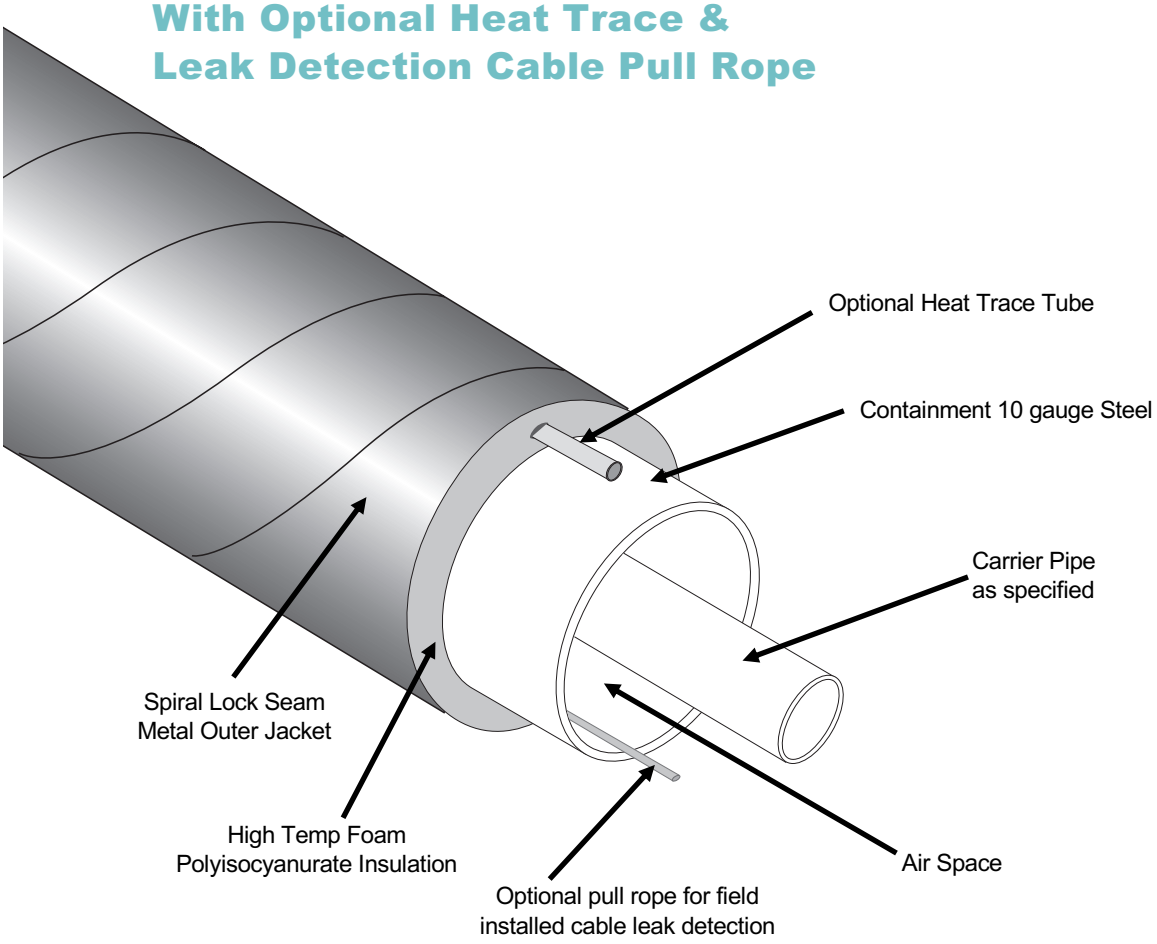
Insul-800 Above Ground Containment by Rovanco

With Optional Heat Trace & Leak Detection Cable Pull Rope



Rovanco's Insul-800 Above Ground Containment with optional Heat Trace and Leak Detection Cable Pull Rope is designed for various above ground applications.

Polyisocyanurate insulation and durable spiral lock seam galvanized metal jacket supplied 20' or 40' lengths, means an economical, high-quality system.

Rovanco's Insul-800 Above Ground Containment with optional Heat Trace and Leak Detection Cable Pull Rope is provided with spiral lock seam metal jacket of aluminum, galvanized steel or stainless steel. These jackets can be supported from the outside with maximum supports spans. Fittings are field insulated with material supplied by Rovanco.

Rovanco's systems are engineered to the latest edition of ANSI B31.1.

The Piping comes complete with metal covers, insulation, fittings and banding to make the installation completely watertight for above grade applications.

To find out more about Rovanco's Insul-800 Above Ground Containment System, you can call your local representative, phone us at (815) 741-6700, fax us at (815) 741-4229, visit our website at www.rovanco.com, or email us at marketing@rovanco.com.

This is a generic product datasheet and is not intended for submittal use.

Standard Specification

Insul-800 Above Ground Containment System with optional Heat Trace & Leak Detection Cable Pull Rope

Carrier Pipe:
All carrier pipe shall be carbon steel A-53-B ERW. Pipe 10" and smaller shall be Schedule 40. Pipe 12" and larger shall be .375 wall. Schedule 80 shall be used for condensate lines 10" and smaller, XH for 12" and larger.

Other pipe types also available (steel, copper, stainless steel, etc)

Inner Pipe Supports:
All pipe shall be aligned and supported within the inner containment casing with galvanized steel supports spaced on 10' centers. The carrier pipe shall bear directly on the steel support. The support shall be designed to permit drainage and free air passage.

Containment:
Containment shall be 10 gauge steel, or as specified. The interior surface shall be smooth to permit free moisture drainage and removability of the inner assembly. The Containment shall be sized to provide an adequate annular space between the outer surface of the carrier pipe and the interior surface of the containment. Containment field joint closures shall consist of 10 gauge steel and shall be field welded over adjacent units.

Containment Insulation:
300˚F polyisocyanurate foam insulation has an initial K factor of .14, density of 2.0, closed cell content of >90%, compressive strength of 30 psi, and continuous service temperature of -297º F (-182˚C) to 300˚ F (148˚C). Conformance with ASTM Standards D1621, 1622, 2126, 2842, 2856, C518 and E96. Completely filling the annular space between the containment casing and jacketing. Provide written independent performance certification with submittals.

400˚F polyisocyanurate foam insulation has an initial K factor not higher than .145, density of 2.5, closed cell content of 87%, compressive strength of 30 psi, and continuous service temperature of 400ºF. Insulation must be capable of handling intermittent temperature spikes to 450ºF. Conformance with ASTM Standard D1621, 1622, 2126, 2842, 2856, C518 and E96. Completely filling the annular space between the inner casing and outer jacketing. Provide written performance certification with submittals.

Outer Jacket:
Shall be spiral lock seam aluminum, galvanized steel or stainless steel in accordance with ASTM A366 and ASTM A256 G90 or as specified.

See Table 1 for metal jacket thickness.

Expansion Loops and Els:
Expansion loops, expansion elbows and other fittings shall be pre-fabricated and furnished in the same types and thickness of insulation and casing as those for the straight section of the piping system. They will be of a size to permit the inner pipe or pipes to expand and contract without damage to the insulation material.

Fittings
All changes in direction of the carrier pipe shall be made with fittings. Mitering of pipe will not be permitted. When tee branches are smaller than the main they join, weld-o-lets may be used. All weld fittings shall be the same wall thickness as adjacent piping.

Anchors, End Seals and Gland Seals
To be determined based the system layout & temperatures.

Field Tests
The carrier pipe shall be field tested hydrostatically to 1 1/2 times the working pressure of the line or as specified. The 10 gauge steel inner containment casing shall be tested with air at 15 psig. All leaks shall be repaired and the test repeated. After test, all field joints shall be insulated and sealed water tight.

Installation
The installation shall be made in accordance with plans, specifications, and manufacturers' installation instructions. Pipe system supplier will provide an installation instructor on site to train the contractor in all phases of installation if required.

Heat Trace Tube & Leak Detection Pull Rope (optional):
Contact Rovanco for Heat Trace and Leak Detection options.

Approved Vendors
Insul-800 Above Ground Containment manufactured by Rovanco, Joliet, Illinois, 815-741-6700, or approved equal. Any alternative supplier wishing to be approved as an equal must be ISO 9001 Certified and submit their technical data and insulation material test reports.

These reports must be certified by an independent Testing Agency that the high temperature polyisocyanurate insulation have been tested to and meet all ASTM standards listed in the "inner containment insulation" section of the specifications. These reports must be submitted to the engineer ten days prior to bid date for an alternate supplier's product to be approved in writing as an equal to the specified products.

Table 1:

Jacket Size In Inches	Aluminum Jacket Spiral Aluminum with impact and Chemical resistance equivalent to H-14 Temper T-3003 in accordance with ASTM-B 313 specifications	Galvanized Steel Jacket Spiral Seam Galvanized Steel in accordance with ASTM A-366 ASTM A-26 G90.	Stainless Steel Jacket Spiral Seam Stainless Steel in accordance with ASTM A-366 ASTM A-26 G90.
4	22 Gauge	26 Gauge	26 Gauge
6	22 Gauge	26 Gauge	26 Gauge
8	22 Gauge	26 Gauge	26 Gauge
10	22 Gauge	26 Gauge	26 Gauge
12	22 Gauge	26 Gauge	26 Gauge
14	18 Gauge	22 Gauge	22 Gauge
16	18 Gauge	22 Gauge	22 Gauge
18	18 Gauge	22 Gauge	22 Gauge
20 & larger	18 Gauge	22 Gauge	22 Gauge

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Contact Rovanco® for the name of your local Representative

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