ENCASE ACID WASTE PP DOUBLE CONTAINMENT

1-1/2" - 12"

Encase™

At the heart of our patented Encase polypro system is its electrofusion fitting with a groundbreaking heavy-gauge resistance wire molded into the socket. The result is a premier system that offers considerable reduction of installation time and the highest quality bubble-tight joints available.

DID YOU KNOW?

Encase is a polypropylene piping system that uses proven Enfusion joining methods to provide an easy-to-install, safe, reliable and cost-effective method to convey chemical waste under gravity-flow conditions.

ADVANTAGES

1. **Polypropylene Material**
   - 30 years of success in chemical waste applications
   - High corrosion resistance
   - Wide temperature range
   - Excellent chemical resistance
2. **Same Material Inside and Out**
   - Eliminates differential expansion problems
   - Chemical resistance is the same for the entire piping system
   - System integrity is maintained in the event of a primary pipe leak
3. **Restrained System**
   - Expansion anchor plates are installed on each fitting to control expansion
   - No expansion loops necessary
4. **Full Product Range**
   - 1-1/2" to 8" primary sizes available
   - Manufactured in both non-flame retardant as well as flame retardant material for above ground installation
5. **Drainage Pattern Fittings**
   - Ensures smooth chemical flow.
   - Enfield piping has been used for chemical waste for over 23 years
6. **Modular Design**
   - Components are factory fabricated. The only site joining necessary is the fusion of couplings to pipes and fittings
   - Reduces labor costs
7. **Fast Joining Method**
   - All site joints are made by electrofusion using an Enfusion Hand Held Unit.
   - Quick and simple to make without the need for costly and cumbersome butt fusion machines
   - Proven technology
   - Narrower trench widths than for butt fusion, resulting in quicker and cheaper installation
   - Joints can be made in the trench which reduces installation time
   - Automatic microprocessor-controlled Enfusion unit ensures joint repeatability
8. **Easy System Testing**
   - The primary pipe can be inspected and tested prior to closing the secondary joint (impossible with butt-welded systems)
   - Any suspect primary joints can be re-fused prior to final closure of the secondary pipe
9. **Leak Detection Compatible**
   - Encase is compatible with all common types of leak detection systems
   - Upon request, pipe is furnished with knot-free twine to allow insertion of a pull rope for leak detection cable installation minimizing installation time.
10. **Full Product Backup**
    - Expert personnel are available to assist in every facet of the Encase product

Material	Carrier	Containment
PP	1-1/2" - 8"	4" - 12"

SHORT FORM SPECIFICATIONS

GENERAL
Acid waste double containment drain lines shall be Encase, manufactured by IPEX, with no substitutions. Pipe and fittings shall be manufactured from Schedule 40 polypropylene and joined by the Enfusion method.

MATERIAL
Pipe, fittings, internal pipe supports and anchor plates shall be manufactured from Type 1 homopolymer or Type 2 copolymer polypropylene material as described in ASTM D4101.

PIPE AND FITTINGS – CONSTRUCTION
All pipe fittings shall be factory assembled and of unitized construction, with the primary and secondary components integrally anchored together to prevent movement of the primary pipe/fitting with in the containment pipe/fitting. All piping components shall be manufactured to Schedule 40 dimensions. The primary pipe shall be adequately supported by means of support plates welded to the primary pipe. Anchor plates shall be provided at each end of the pipe/fitting section to restrain pipe expansion. All anchor plates must be mechanically located in a machined recess on the inside of each secondary pipe/fitting and welded to both the primary and secondary pipe/fitting sections.

FACTORY WELDED JOINTS
All factory joints shall be made either by butt fusion or Enfusion. Joining by means of fillet welding is expressly forbidden.

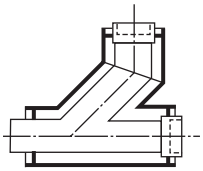
SITE JOINTS
All site joints shall be made using Enfusion couplings, manufactured from polypropylene with a nickel/chrome resistance wire, molded in place. Components with copper wire elements are prohibited. Solvent, butt-welded or fillet-welded site joints are also prohibited.

INSTALLATION
Installation shall be in accordance with the contract drawings, the manufacturer's recommendations and the local plumbing code. The entire installation shall be installed in proper alignment and free of stress.

TESTING
The system shall be tested in accordance with the manufacturer's recommendations and the local plumbing code. The primary pipe shall be tested prior to making the secondary joints. If Secondary pipe cannot be hydro-tested, as determined by the engineer or authority having jurisdiction, then the use of nitrogen or air at a MAXIMUM 5 psi (gauge) shall be allowed. It is imperative that a working-pressure regulator be used during the pneumatic test to ensure that over-pressurization of the PVC, beyond 5 psi, cannot occur. The following must also be noted: Air or nitrogen under pressure is compressed and therefore poses a potential hazard. If a failure of the pipe or fitting occurs during such test, the air exits at the failure point and expands rapidly. This increase in velocity can cause the system to fail in a catastrophic mode. Therefore during such air test all personnel involved in the test or present in the test surrounding area must be aware of such a possibility and take all necessary precautions. Precautions include, but are not limited to, taking extreme care not to impact or damage the system in any way. Such procedure is a limited exception to IPEX standard policy which forbids the use of its rigid systems with any compressed gases.

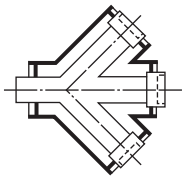
PRODUCT SELECTION CHART – ENCASE

Reducing Combination Wye & 1/8 Bend Soc x Sp x Soc



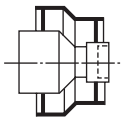
Dimension inches Primary	Secondary	significant Number	Product Code
2 x 1-1/2	4 x 4	204215	231227
3 x 1-1/2	6 x 4	206315	231228
3 x 2	6 x 4	206320	231229
4 x 2	8 x 4	208420	231230
4 x 3	8 x 6	208430	231231
6 x 2	10 x 4	201062	231221
6 x 3	10 x 6	201063	231222
6 x 4	10 x 8	201064	231223
8 x 3	12 x 6	201283	231224
8 x 4	12 x 8	201284	231225
8 x 6	12 x 10	201286	231226

Double Wye Soc x Sp



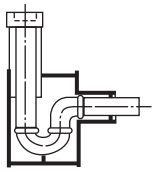
Dimension inches Primary	Secondary	significant Number	Product Code
1-1/2	4	224150	231243
2	4	224200	231244
3	6	226300	231245
4	8	228400	231246
6	10	221060	231241
8	12	221280	231242

Reducing Coupling Soc x Sp



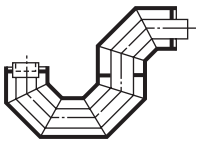
Dimension inches Primary	Secondary	significant Number	Product Code
2 x 1-1/2	4 x 4	344215	231347
3 x 1-1/2	6 x 4	346315	231348
3 x 2	6 x 4	346320	231349
4 x 1-1/2	8 x 4	348415	231324
4 x 2	8 x 4	348420	231350
4 x 3	8 x 6	348430	231351
6 x 1-1/2	10 x 4	341061	231352
6 x 2	10 x 4	341062	231341
6 x 3	10 x 6	341063	231342
6 x 4	10 x 8	341064	231343
8 x 3	12 x 6	341283	231344
8 x 4	12 x 8	341284	231345
8 x 6	12 x 10	341286	231346

P-Trap Soc x Sp



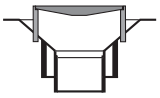
Dimension inches Primary	Secondary	significant Number	Product Code
1-1/2	4	374150	231361
2	4	374200	231372

P-Trap Soc x Sp



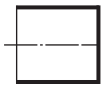
Dimension inches Primary	Secondary	significant Number	Product Code
3	6	376300	231373
4	8	378400	231374
6	10	371060	231371
8	12	371280	231375

Floor Drain Sp



Dimension inches Primary	Secondary	significant Number	Product Code
1-1/2	4	514150	231400
2	4	514200	231402
3	6	516300	231403
4	8	518400	231404
6	10	511060	231401

End Cap Soc

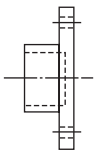


Dimension inches Primary	Secondary	significant Number	Product Code
1-1/2	-	641500	231462
2	-	642000	231463
3	-	643000	231464
4	-	644000	231465
6	-	646000	231466
8	-	648000	231467
10	-	641000	231832
12	-	641200	231833

End Seal Soc x Sp

Dimension inches Primary	Secondary	significant Number	Product Code
1-1/2	4	664150	231483
2	4	664200	231484
3	6	666300	231485
4	8	668400	231486
6	10	661060	231481
8	12	661280	231482

Flange - ASA 150 Soc



Dimension inches Primary	Secondary	significant Number	Product Code
1-1/2	-	L361	257361
2	-	L362	257365
3	-	L363	257366
4	-	L364	257367
6	-	L366	257368
8	-	L368	257369
10	-	L3610	257362
12	-	L3612	257363

Encase components should only be joined using IPEX Control Units.
NFRPP is the standard material of construction for all Encase components. FRPP is available on request