

ENFIELD ELECTROFUSION ACID WASTE SYSTEMS

1-1/2" - 12"

ENFIELD™

Enfield electrofusion fittings are molded with an integral resistance wire in the socket, with jointing completed by energizing the resistance wire via a microprocessor controlled Enfusion Control Unit. The result of these innovations is an unparalleled level of joint reliability and repeatability. Enfield has proven over time that it produces the optimum level of performance where it matters most - at the joint interface. It offers unprecedented control of jointing - controlled fit, controlled temperature and controlled time.

ADVANTAGES

- 1 **Positive reliable joints** made in 2 minutes - installation time is reduced
- 2 **Several joints can be made at one time**
- 3 **Proven reliability** for over a decade
- 4 **Enfield is manufactured from polypropylene** which has an operating temperature range from -10°F to 180°F. With occasional exposure to 212°F; this allows systems to be flushed with boiling water
- 5 **Heavy gauge resistance wire** molded into sockets - no loose components, controlled fusion of joints
- 6 **Easy connecting** heavy duty socket terminal posts complete with protection ears
- 7 **Microprocessor controlled Enfusion unit** ensures secure joints and joint repeatability
- 8 **Matched system** - high quality pipe and fittings are matched to give ease of installation and long term reliability
- 9 **Easy to install** - even in difficult areas
- 10 **Installed cost 50% less than glass**
- 11 **Breakage factor eliminated**
- 12 **Maintenance free**

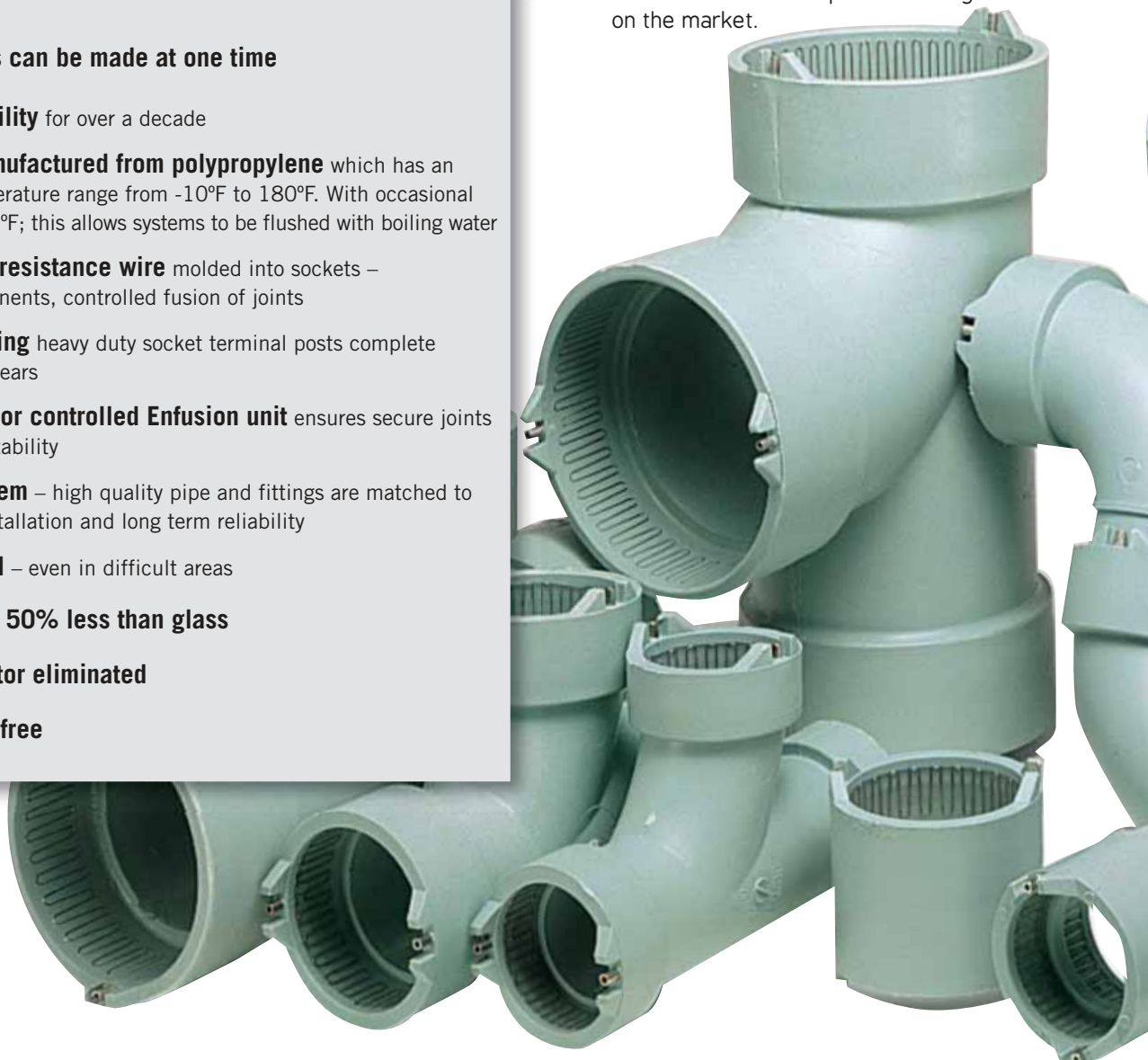
STANDARDS



NSF-approved
IAPMO-listed & CSA-certified
Meets ASTM F1412, D4101 and CSA B181.3

i DID YOU KNOW?

Enfield® offers polypro fittings, constructed with a heavy gauge resistance wire that is integrally molded into the socket. These are considered to be the premier fittings on the market.



SHORT FORM SPECIFICATIONS

GENERAL

Acid waste drain and vent system, as shown on drawings, shall be NSF listed and CSA certified Schedule 40, polypropylene as manufactured by IPEX. System to include pipe supplied in 10 ft. lengths (or 20 ft lengths if NFRPP is specified), fittings, traps and neutralization tanks from the same manufacturer. It shall also include recommended adapters to connect to other piping materials, where applicable.

MATERIAL

Pipe shall be made from NSF listed Type 110 or 210, flame retardant polypropylene conforming to ASTM D4101, with a maximum average flame spread of zero seconds and a maximum extent of burning of 13 mm, in accordance with ASTM D635. Matched fittings shall be made from NSF listed flame retardant polypropylene with average maximum burn time of 80 seconds and maximum extent of burning of 20 mm in accordance with ASTM D635.

If NFRPP pipe is specified, it shall be made from NSF 14 listed and CSA certified Schedule 40 PP as manufactured by IPEX. Pipe shall comply with ASTM F1412 and material used shall comply with the material requirements of ASTM D4101.

FITTINGS

Fittings shall be NSF listed and have an integral heavy gauge, nickel/chrome electrical resistance wire molded in place in the fitting body. Copper wire elements, loose wire or other loose joint components, are prohibited. Fittings shall be Enfield or approved equal.

JOINTS

Connections between polypropylene pipe and fittings shall be made using the Enfield joint. All joints shall have a fusion cycle controlled by a microprocessor operated, waterproof, Enfusion control unit equipped with input and output voltage sensors, ambient temperature sensors to automatically adjust fusion time and audible alarms to indicate cycle interruptions and completion of the joining process. The unit shall be capable of fusing multiple joints and with a minimum capability of eight 2" joints with the same fusion time as a single joint.

Connections between polypropylene and other piping materials shall be made using Enfield adapters according to manufacturer's (IPEX) recommendations. All electrofusion machines shall be third party certified by UL and CSA.

INSTALLATION AND TESTING

Installation and testing shall be in accordance with the contract drawings, the manufacturer's recommendations and the local plumbing codes. Testing with compressed air is prohibited. The entire system shall be installed free of stress and in proper alignment. Horizontal supports shall provide a wide bearing area and be free of burrs or sharp edges. Support spacings shall be in accordance with the manufacturer's recommendations and local plumbing codes. Vertical piping shall have riser clamps at each floor. Pipe supports should be installed so that horizontal piping is in uniform alignment and with a uniform slope of at least 1/8".



PRODUCT SELECTION CHART – ENFIELD

Dimension inches	Significant Number	Product Code
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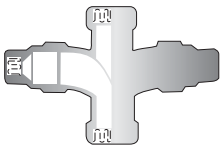
Double Sanitary Tee EJ



† 1-1/2	L351	257351
2	L352	257352
3	L353	257354
4	L354	257357

† Fabricated

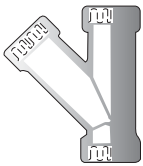
Reducing Double Sanitary Tee EJ



* 2 x 1-1/2	L3521	257353
* 3 x 1-1/2	L3531	257355
4 x 2	L3542	257358
* 4 x 3	L3543	257359

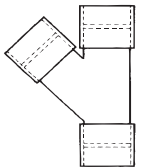
* Assembled

45° Wye EJ



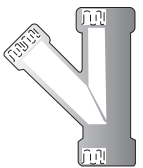
1-1/2	L371	257371
2	L372	257390
3	L373	257394
4	L374	257400
6	L376	257406

Fabricated 45° Wye EJ



8	L378	257414
10	L3710	257372
12	L3712	257381

Reducing Wye EJ

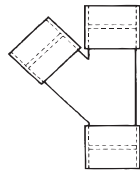


2 x 1-1/2	L3721	257391
* 3 x 1-1/2	L3731	257395
3 x 2	L3732	257396
* 4 x 1-1/2	L3741	257425
4 x 2	L3742	257401
* 4 x 3	L3743	257402
* 6 x 1-1/2	L3761	257426
* 6 x 2	L3762	257407
* 6 x 3	L3763	257408
6 x 4	L3764	257409

* Assembled

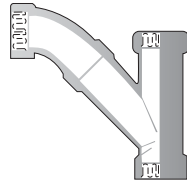
Dimension inches	Significant Number	Product Code
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Fabricated Reducing Wye EJ



8 x 2	L3782	257427
8 x 3	L3783	257415
8 x 4	L3784	257416
8 x 6	L3786	257421
10 x 3	L37103	257428
10 x 4	L37104	257373
10 x 6	L37106	257379
10 x 8	L37108	257380
12 x 3	L37123	257429
12 x 4	L37124	257383
12 x 6	L37126	257387
12 x 8	L37128	257388
12 x 10	L371210	257430

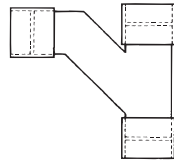
Combination Wye & 1/8 Bend (Long Turn Wye) EJ



* 1-1/2	L3715	257389
* 2	L3725	257392
* 3	L3735	257397
* 4	L3745	257403
* 6	L3765	257410

* Assembled

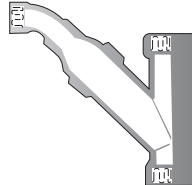
Fabricated Combination Wye & 1/8 Bend EJ



* 8	L3785	257417
* 10	L37105	257374
* 12	L37125	257384

* Assembled

Reducing Combination Wye & 1/8 Bend EJ



* 2 x 1-1/2	L37251	257393
* 3 x 1-1/2	L37351	257398
* 3 x 2	L37352	257399
* 4 x 1-1/2	L37451	257431
* 4 x 2	L37452	257404
* 4 x 3	L37453	257405
* 6 x 1-1/2	L37651	257432
* 6 x 2	L37652	257411
* 6 x 3	L37653	257412
* 6 x 4	L37654	257413

* Assembled