

KUBRICKY CONSTRUCTION CORP.  
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**KUBRICKY CONSTRUCTION CORP.**  
A PROUD MEMBER OF THE D.A. COLLINS™ COMPANIES  
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Issued 03/20/15  
Respond by 04/03/15

Rutland City BRF 3000 (2014036)  
SUBMITTAL 43

To

**Timothy Pockette, PE**

Topic 900.640 10" Sewer & 6" Sewer Service  
Status For Approval  
Spec section 900.640  
Responsibility (16) River St  
Sent to approver 3/20/15  
Required from approver 4/3/15

From

**Volker H.D. Burkowski**

Signed by

Date

3/20/15

Proceed as Indicated

Owner Authorized Representative

Date

PRODUCT INFORMATION BULLETIN

**IPEX Ring-Tite® & Enviro-Tite®  
Piping Systems**



PVC Sewer Piping Systems manufactured to CSA & ASTM standards

IPEX Ring-Tite® Pipe & Fittings (100mm-1050mm) (4"-42")  
CSA B182.2, ASTM D3034, F679

IPEX Enviro-Tite® Pipe (100mm-375mm) (4"-15")  
CSA B182.2 (4"-15")  
CSA B182.1 (6" DR 28), ASTM F1760

Designed for various municipal applications, IPEX Ring-Tite and Enviro-Tite systems provide advanced protection from cracking, leaking, corrosion and other threats that can compromise the integrity of municipal sewer systems.

IPEX municipal sewer piping systems are made with a high-strength, high-impact PVC compound. More specifically, an innovative co-extrusion process is used for the production of Enviro-Tite, allowing for 50% use of reprocessed PVC while increasing product performance. The combination of reprocessed materials and superior performance truly distinguishes Enviro-Tite as one of the most environmentally friendly sewer pipes available.

Ring-Tite fittings are made from superior quality PVC and are injection molded or fabricated using the most advanced technology available and are as solid and reliable as our PVC pipe.

Proven in tough North American climates for over 50 years, IPEX PVC pipe and fittings systems have an established track record of performance.

**Key features include:**

**Corrosion-proof Performance:** IPEX Ring-Tite and Enviro-Tite systems are immune to corrosion from aggressive soils and galvanic action. In addition, H<sub>2</sub>S and other aggressive chemicals common in sanitary sewage have no effect.

**Tight Joints & Lower Treatment Costs:** Eliminate infiltration and exfiltration. Ring-Tite and Enviro-Tite's joints easily outperform concrete and corrugated PE joints.

**Third-party certification:** IPEX Ring-Tite and Enviro-Tite systems are certified to CSA B182.2. Third party certification is your verification that the product will perform as stated.

**Ring-Tite®  
Enviro-Tite®**



Products are manufactured by IPEX Inc. and distributed in the United States by IPEX USA LLC.

Ring-Tite® & Enviro-Tite® are trademarks of IPEX Branding Inc.

**Canadian Customers call IPEX Inc.**

Toll Free: (866) 473-9462  
www.ipexinc.com

**US Customers call IPEX USA LLC**

Toll Free: (800) 463-9572  
www.ipexamerica.com

**High flow capacity:** IPEX's PVC pipe and fittings are manufactured with smooth inner walls and provide systems with a Manning coefficient of 0.009, allowing for use of smaller diameters of pipe when compared to rough walled pipe.

**Ring-Tite & Enviro-Tite Dimensions**

	Nominal Size		Average I.D.		Min Wall Thickness		Average O.D.	
	in	mm	in	mm	in	mm	in	mm
SDR35	4	100	3.97	100.94	0.12	3.06	4.21	107.06
	5	135	5.32	135.08	0.16	4.09	5.64	143.26
	6	150	5.92	150.29	0.18	4.55	6.28	159.39
	8	200	7.92	201.16	0.24	6.10	8.40	213.36
	10	250	9.90	251.46	0.30	7.62	10.50	266.70
	12	300	11.79	299.36	0.36	9.07	12.50	317.50
	15	375	14.43	366.42	0.44	11.10	15.30	388.62
	18	450	17.63	447.87	0.53	13.57	18.70	475.01
	21	525	20.79	527.99	0.63	16.00	22.05	559.99
	24	600	23.39	594.00	0.71	18.00	24.80	630.00
	27	675	26.36	669.42	0.80	20.29	27.95	710.00
	30	750	30.17	766.36	0.91	23.22	32.00	812.80
	36	900	36.11	917.22	1.09	27.79	38.30	972.80
42	1050	41.95	1065.72	1.27	32.29	44.50	1130.30	
SDR28	4	100	3.91	99.42	0.15	3.82	4.21	107.06
	5	135	5.24	133.02	0.20	5.12	5.64	143.26
	6	150	5.83	148.01	0.22	5.69	6.28	159.39

**(%) Deflection of Ring-Tite & Enviro-Tite (SDR 35 pipe)**

ASTM Embedment Material Classification		Manufactured Granular Angular CLASS I	Clean Sand & Gravel CLASS II		Sand & Gravel with Fines CLASS III		Silt & Clay CLASS IV
DENSITY (PROCTOR) AASHTO T-99		90%	90%	80%	90%	85%	85%
E' kPa (psi)		20 700 (3,000)	13 800 (2,000)	7 000 (1,000)	7 000 (1,000)	3 500 (500)	2 760 (400)
1 m	3.3 ft	0.3	0.5	1.0	1.0	1.7	2.1
2	6.6	0.4	0.5	1.0	1.0	1.8	2.2
3	9.8	0.4	0.6	1.2	1.2	2.2	2.6
4	13.1	0.6	0.8	1.6	1.6	2.9	3.5
5	16.4	0.7	1.1	2.0	2.0	3.7	4.4
6	19.7	0.9	1.3	2.4	2.4	4.4	5.3
7	23.0	1.0	1.5	2.8	2.8	5.1	6.1
8	26.3	1.2	1.7	3.2	3.2	5.9	7.0
9	29.5	1.3	1.9	3.6	3.6	6.6	7.9
10	32.8	1.4	2.1	4.0	4.0	7.3	8.8
15	49.2	2.2	3.2	6.0	6.0	11.0	13.1

○ Not recommended

## TRENCH TOUGH PLUS™ SDR35 SEWER FITTINGS

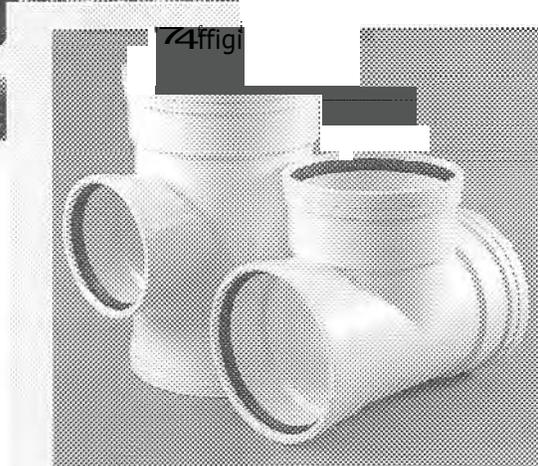
### Description and Applications

Trench Tough Flue' SDR35 sewer fittings are designed to be used with standard PVC SDR35 sewer pipe manufactured under ASTM D3034, F679 or F1760. They can be used for both wastewater and stormwater applications, as well as the conveyance of industrial wastes.

These fittings are reinforced to SDR26 thickness at strategic locations such as the branches of tees and wyes for optimal long-term performance.

### Applicable Standards

- ASTM F1336
- ASTM F679
- ASTM D3034
- CSA B182.2
- GSA B181.2
- IAPMO File 2431



### Joint Design

The Trench Tough Plus joint is third-party certified to withstand a 15 psi hydrostatic pressure, which is important in case sewer surcharges.

Joints are third-party certified to withstand a -10.8 psi vacuum pressure, which is necessary if the fitting is installed below the groundwater level.

Each of the above performance levels are tested with the joint deflected 5<sup>2</sup>, as well as a 5% ring deflection. This simulates a "worst case" installation scenario. While the joint forms an extremely tight seal, the insertion forces required to assemble the joint are significantly lower than for competing fittings. Multi Fittings joints easily meet the tough maximum infiltration/exfiltration limits set for PVC pipe of 25 U.S. gal./in.dialmile/day.

### Available Configurations

Multi Fittings has the widest range of molded fittings in North America. Any other configurations can be fabricated. For a complete list of the Multi Fittings product lineup, please refer to the Multi Fittings Price List or go to [www.multifittings.com](http://www.multifittings.com).

### Short Form Specifications

All sewer fittings must comply with the ASTM 03034 and ASTM F1336 Standards. Fittings must be third party certified to GSA B182.2 or the above ASTM standards. Proof of third party verification must be supplied to the project engineer prior to approval.

Fitting joints must withstand a minimum 15 psi hydrostatic pressure and a -10.8 psi vacuum pressure for at least 10 minutes with no leakage while joint is deflected 5<sup>2</sup> and ring deflection is 5%. Proof of laboratory testing to this effect must be supplied with fittings.

Impact testing will be carried out both at 73°F and at 32°F with no cracking or splitting allowed. Proof of laboratory testing to this effect must be supplied with fittings.