

SYSTEM XFR DRAINAGE SYSTEMS

1-1/2" - 12" (40mm - 300mm)

SYSTEM XFR® DWV

Contractors installing DWV pipe in high buildings and plenums had few alternatives to heavy cast iron and copper. IPEX has changed that. System XFR® is the world's first PVC DWV system rated for high buildings and air plenums where the National Building Code mandates more stringent Flame Spread and Smoke Development requirements which previously limited the use of thermoplastic.

Suitable for use in noncombustible environments, System XFR's advanced material has a Flame Spread Rating of 25 and Smoke Developed Classification of 50 which permits it to be installed in High Buildings and Air Return Plenums in accordance with local Codes.

And in addition to its flame and smoke attributes, System XFR delivers all the performance advantages you'd expect from thermoplastic piping.

APPLICATIONS

Drain Waste and Vent Piping in:

- Commercial
- Industrial
- Residential
- Above ground or underground

STANDARDS



CSA B181.2
CAN/ULC S102.2

ADVANTAGES

1 Flame & Smoke

System XFR possesses superior fire- and smoke- retardant capabilities. When tested to the CAN/ULC S102.2 Standard, System XFR achieved a Flame Spread Rating of not greater than 25 and a Smoke Developed Classification of not greater than 50.

2 Code Compliance

Ideal for noncombustible applications, System XFR meets these national and provincial building codes:

- High buildings as defined by NBC article 3.2.6
- Air plenums as defined by NBC article 3.6.4.3
- Noncombustible construction as defined by NBC article 3.1.5
- Penetrating a rated fire separation as defined by NBC article 3.1.9.4.(4)

3 High Impact Resistance

Thanks to its advanced materials, System XFR demonstrates a high impact strength in cold temperatures. Impact-tested at 0 °C and 23 °C, XFR is tough enough to exceed the CSA requirements.

4 Improved Flow

System XFR has a substantially lower roughness factor compared to metal systems, allowing for overall improved flow. It's also made with a larger inside diameter which provides a greater cross-sectional area for flow and raises both carrying capacity and flow rates. This feature gives engineers the versatility to design smaller, compact systems that can still handle the necessary flow rates.

5 Lower Thermal Conductivity

System XFR sweats less than metal pipe due to its excellent insulating properties. As a result, XFR can reduce — and in many cases, eliminate — the need for insulation.

6 Comparable Noise Attenuation

In real world sound tests performed on constructed buildings, IPEX DWV systems have proven to provide comparable noise attenuation when compared to cast iron from drainage flow. Numerous installations from schools to hospitals and nursing homes have been plumbed with these IPEX drainage systems, all proving that in these critical installations the IPEX systems measure up in terms of sound transfer.





DID YOU KNOW?

SYSTEM XFR — the world’s first uncoated PVC rated for high buildings and plenums where tighter fire and smoke regulations have previously limited the use of thermoplastic.

Suitable for use in noncombustible environments, System XFR’s advanced material meets all fire-resistance and smoke development codes. Its revolutionary fire-retardant properties virtually eliminate flame spread and reduce the volume of smoke generated.

SHORT FORM SPECIFICATIONS

SYSTEM XFR DWV PIPE AND FITTINGS

IPEX System XFR Drain, Waste and Vent pipe and fittings shall be certified to CSA B181.2 and when used in noncombustible construction, high buildings and air plenums, they shall be tested and listed in accordance with CAN/ULC S102.2 and clearly marked with the certification logo indicating a Flame Spread Rating not more than 25 and a Smoke Developed Classification not exceeding 50.


System XFR® pipe and fittings have been tested and certified by CSA to the CSA B181.2 standard. System XFR pipe and fittings are listed with ITS (Warnock Hersey) to exhibit Flame and Smoke values as per CAN/ULC S102.2-10.


Test Results


ITS (Warnock Hersey) conducted the testing in accordance with CAN/ULC S102.2 test standard. The following table summarizes the results of these tests.


Component	Flame Spread Rating	Smoke-Developed Classification
System XFR®		
Pipe	≤ 25	≤ 50
Fittings	≤ 25	≤ 50
Fabricated PVC fittings with XFR Coating	≤ 25	≤ 50


PRODUCT SELECTION CHART - SYSTEM XFR

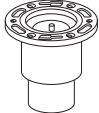
	Dimension		Product Code
	inches	mm	
Closet Flange One Piece Plastic Slip	4	100	526573
	4 x 3	100 x 75	526584


	Dimension		Product Code
	inches	mm	
Adjustable Closet Flange w Plastic Ring Slip w Molded Test Plate	4 x 3	100 x 75	526588
			


Closet Flange One Piece Plastic Slip w Spigot End	4 x 3	100 x 75	526592
			


45° Discharge Closet Flange Adjustable w Plastic Ring	4 x 3	100 x 75	426589
			

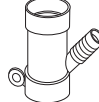
Closet Flange One Piece Plastic Slip w Molded Test Plate	4 x 3	100 x 75	526591
			


Closet Flange Kit for Concrete	4 x 3	100 x 75	426593
			
for use in Slab on Grade W.C. installations			


Closet Flange One Piece Plastic Slip Flush Kit	4 x 3	100 x 75	426594
			

	Expansion Joint - Type 1 (Vertical & Horizontal Use) H x H		
	1-1/2	40	526485
	2	50	526486
	3	75	526487
	4	100	526489
	6	150	426209
	8	200	426210
	10	250	426211
	12	300	426212

Closet Flange One Piece Plastic Slip Flush Kit w Molded Test Plate	4 x 3	100 x 75	526595
			

Dishwasher Wye H x H x Hose Barb	1-1/2 x 1-1/2 x 1/2	40 x 40 x 12	526495
			

Adjustable Closet Flange with Plastic Ring Slip	4 x 3	100 x 75	526586
			

	Slip Cap H		
	1-1/2	40	526411
	2	50	526412
	3	75	526413
	4	100	526414
	6	150	526415
	8	200	526416
	10	250	526417
	12	300	526418