

SYSTEM XFR DRAINAGE SYSTEMS

1-1/2" – 18" (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
- Residential
- Above ground or underground
- Industrial

STANDARDS



CSA B181.2
CAN/ULC S102.2

ADVANTAGES

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.

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)

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.

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.

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.

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 to exhibit Flame and Smoke values as per CAN/ULC S102.2-10.

Test Results

The following table summarizes the results of the testing performed in accordance with CAN/ULC S102.2 test standard.

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

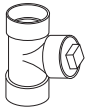
Dimension		Product Code
inches	mm	

System XFR DWV Pipe



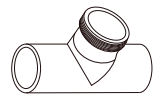
Dimension (inches)	Dimension (mm)	Product Code
1-1/2	40	110067
2	50	110068
3	75	110069
4	100	110070
6	150	110071
8	200	110072
10	250	110073
12	300	110074
14	350	110076
16	400	110077
18	450	110078

Line Cleanout H x H x Gasket Plug



Dimension (inches)	Dimension (mm)	Product Code
1-1/2	40	526040
2	50	526041
3	75	526103
4	100	526104
4 x 3 x 4	100 x 75 x 100	526105
6	150	526161
8	200	526162
10	250	526163
12	300	526164

Line Cleanout Sp x Sp x Threaded Plug



Dimension (inches)	Dimension (mm)	Product Code
8	200	526766

Plug Cleanout MPT with gasket



Dimension (inches)	Dimension (mm)	Product Code
1-1/2	40	526401
2	50	526402
3	75	526403
4	100	526404
6	150	526405

Fitting Cleanout Sp x FPT



Dimension (inches)	Dimension (mm)	Product Code
1-1/2	40	526042
2	50	526046
3	75	526047
4	100	526048

Fitting Cleanout Sp x Gasket Plug



Dimension (inches)	Dimension (mm)	Product Code
1-1/2	40	526345
2	50	526346
3	75	526347
4	100	526348
6	150	526349

Dimension		Product Code
inches	mm	

Tube End Cleanout H x Gasket Plug



Dimension (inches)	Dimension (mm)	Product Code
1-1/2	40	526291
2	50	526298
3	75	526299
4	100	526300

Tube End Cleanout H x Bolted Cover



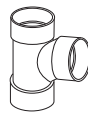
Dimension (inches)	Dimension (mm)	Product Code
8	200	526000
10	250	526001
12	300	526002

Fitting Cleanout Sp x Bolted Cover



Dimension (inches)	Dimension (mm)	Product Code
8	200	526140
10	250	526141
12	300	526142

Sanitary Tee H x H x H

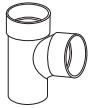


Dimension (inches)	Dimension (mm)	Product Code
1-1/2	40	526081
2	50	526082
2 x 1-1/2 x 1-1/2	50 x 40 x 40	526058
2 x 1-1/2 x 2	50 x 40 x 50	526057
2 x 1-1/2	50 x 40	526056
3	75	526083
3 x 1 1/2	75 x 40	526061
3 x 2	75 x 50	526060
4	100	526084
4 x 2	100 x 50	526064
4 x 3	100 x 75	526066
6	150	526377
6 x 4	150 x 100	526385
8	200	526810
8 x 4	200 x 100	526808
8 x 6	200 x 150	526809
10	250	526814
10 x 4	250 x 100	526811
10 x 6	250 x 150	526812
10 x 8	250 x 200	526813
12	300	526819
12 x 4	300 x 100	526815
12 x 6	300 x 150	526816
12 x 8	300 x 200	526817
12 x 10	300 x 250	526818
14 x 4	350 x 100	526820
14 x 6	350 x 150	526821
16 x 4	400 x 100	526826
16 x 6	400 x 150	526827
18 x 4	450 x 100	526833
18 x 6	450 x 150	526834

PRODUCT SELECTION CHART - SYSTEM XFR

	Dimension		Product Code
	inches	mm	

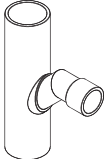
Sanitary Tee Sp x H x H



1-1/2	40	526550
3 x 1-1/2	75 x 40	526552
4	100	426557

Sanitary Tee Sp x Sp x H

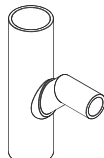
FOR USE WITH
MJ GREY™



8 x 4	200 x 100	526926
8 x 6	200 x 150	526998
10 x 4	250 x 100	526997
10 x 6	250 x 150	526758
12 x 4	300 x 100	526761
12 x 6	300 x 150	526762

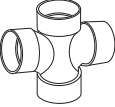
Sanitary Tee Sp x Sp x Sp

FOR USE WITH
MJ GREY™



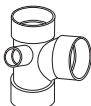
8	200	526999
10 x 8	250 x 200	526759
10	250	526760
12 x 8	300 x 200	526763
12 x 10	300 x 250	526764
12	300	526765

Double Sanitary Tee H x H x H x H



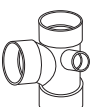
1-1/2	40	526542
2	50	526543
2 x 1-1/2	50 x 40	526547
3	75	526544
3 x 1-1/2	75 x 40	526538
3 x 2	75 x 50	526539

Sanitary Tee Side Inlet (left hand) H x H x H x H SI



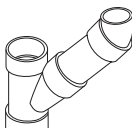
3 x 3 x 3 x 1-1/2	75 x 75 x 75 x 40	526395
3 x 3 x 3 x 2	75 x 75 x 75 x 50	526396

Sanitary Tee Side Inlet (right hand) H x H x H SI x H



3 x 3 x 3 x 1-1/2	75 x 75 x 75 x 40	526397
3 x 3 x 3 x 2	75 x 75 x 75 x 50	526398

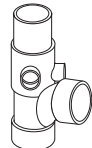
Upright Extended Wye H x x H x Sp



3	75	526006
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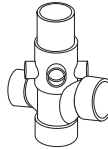
	Dimension		Product Code
	inches	mm	

Single Apartment Fitting H x Sp x H




3	75	526007
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Double Apartment Fitting H x Sp x H x H




3	75	526008
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90° Elbow H x H



1-1/2	40	526121
1-1/2 L	40 L	426024
2	50	526035
2 L	50 L	526122
3	75	526025
3 L	75 L	526123
4	100	526124
6	150	526125
8	200	526126
10	250	526127
12	300	526128
14	350	526129
16	400	526130
18	450	526131


90° Elbow Sp x H



1-1/2	40	526231
2	50	526232
3	75	526233
4	100	526234
6	150	526235
8	200	526236
10	250	526237
12	300	526238
14	350	526135
16	400	526136
18	450	526137

90° Elbow Sp x Sp

FOR USE WITH
MJ GREY™



8	200	526967
10	250	526968
12	300	526970
14	350	526871
16	400	526872
18	450	526873

PRODUCT SELECTION CHART - SYSTEM XFR

	Dimension		Product Code
	inches	mm	

90° Reducing Elbow Closet Bend Reducing Sp x H



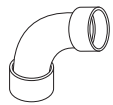
4 x 3	100 x 75	426026
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90° Reducing Elbow H x H



4 x 3	100 x 75	526155
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90° Elbow Extra Long Sweep H x H



2	50	426157
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60° Elbow H x H



1-1/2	40	526261
2	50	526262
3	75	526253
4	100	526264

45° Elbow Short Turn H x H



1-1/2	40	526241
2	50	526242
3	75	526243
4	100	526244
6	150	526245
8	200	526246
10	250	526247
12	300	526248
14	350	526249
16	400	526250
18	450	526425

45° Elbow Short Turn Sp x H



1-1/2	40	526221
2	50	526071
3	75	526223
4	100	526072
6	150	526073
8	200	526226
10	250	526270
12	300	526271
14	350	526272
16	400	526273
18	450	526274

45° Elbow Short Turn Sp x Sp



FOR USE WITH MJ GREY™		
8	200	526971
10	250	526770
12	300	526771
14	350	526773
16	400	526774
18	450	526775

	Dimension		Product Code
	inches	mm	

45° Elbow Long Turn H x H



6	150	426038
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45° Elbow Long Turn Sp x H



6	150	426225
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22-1/2° Elbow H x H



1-1/2	40	526251
2	50	526252
3	75	526253
4	100	526254
6	150	526255
8	200	526256
10	250	526257
12	300	526258
14	350	526259
16	400	526260

22-1/2° Elbow Sp x H



6	150	526651
8	200	526652
10	250	526653
12	300	526654
14	350	526655
16	400	526656

22-1/2° Elbow Sp x Sp



FOR USE WITH MJ GREY™		
8	200	526972
10	250	526973
12	300	526908

11-1/4° Elbow H x H



6	150	526671
8	200	526672
10	250	526673
12	300	526674
14	350	526675
16	400	526676

11-1/4° Elbow Sp x H



6	150	526681
8	200	526682
10	250	526683
12	300	526684
14	350	526685
16	400	526686

PRODUCT SELECTION CHART - SYSTEM XFR

Dimension	Product Code	
	inches	mm

45° Wye H x H x H



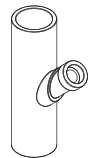
Dimension	mm	Product Code
1-1/2	40	526171
2	50	526172
2 x 1-1/2 x 1-1/2	50 x 40 x 40	526194
2 x 1-1/2	50 x 40	526195
3	75	526173
3 x 1-1/2	75 x 40	526201
3 x 2	75 x 50	526196
4	100	526174
4 x 2	100 x 50	526198
4 x 3	100 x 75	526197
6	150	526175
6 x 4	150 x 100	526199
8	200	526560
8 x 4	200 x 100	526606
8 x 6	200 x 150	526607
10	250	526706
10 x 4	250 x 100	526703
10 x 6	250 x 150	526704
10 x 8	250 x 200	526705
12	300	526711
12 x 4	300 x 100	526707
12 x 6	300 x 150	526708
12 x 8	300 x 200	526709
12 x 10	300 x 250	526710
14 x 4	350 x 100	526712
14 x 6	350 x 150	526713
16 x 4	400 x 100	526718
16 x 6	100 x 150	526719
18 x 4	450 x 100	526725
18 x 6	450 x 150	526726

45° Wye Sp x H x H



3	75	426635
3 x 1-1/2	75 x 40	426638

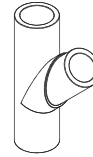
45° Wye Sp x Sp x Sp



FOR USE WITH		
MJ GREY™		
8 x 4	200 x 100	526985
8 x 6	200 x 150	526986
10 x 4	250 x 100	526988
10 x 6	250 x 150	526989
12 x 4	300 x 100	526992
12 x 6	300 x 150	526993

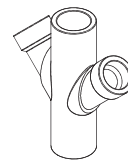
Dimension	Product Code	
	inches	mm

45° Wye Sp x Sp x Sp



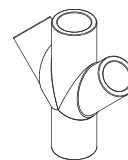
FOR USE WITH		
MJ GREY™		
8	200	526987
10 x 8	250 x 200	526990
10	250	526991
12 x 8	300 x 200	526994
12 x 10	300 x 250	526995
12	300	526996
14	350	526945
14 x 4	350 x 100	526940
14 x 6	350 x 150	526941
14 x 8	350 x 200	526942
14 x 10	350 x 250	526943
14 x 12	350 x 300	526944
16	400	526952
16 x 4	400 x 100	526946
16 x 6	400 x 150	526947
16 x 8	400 x 200	526948
16 x 10	400 x 250	526949
16 x 12	400 x 300	526950
16 x 14	400 x 350	526951
18	450	526960
18 x 4	450 x 100	526953
18 x 6	450 x 150	526954
18 x 8	450 x 200	526955
18 x 10	450 x 250	526956
18 x 12	450 x 300	529957
18 x 14	450 x 350	526958
18 x 16	450 x 400	526959

45° Double Wye Sp x Sp x H x H



8 x 4	200 x 100	526769
8 x 6	200 x 150	526974
10 x 4	250 x 100	526976
10 x 6	250 x 150	526977
12 x 4	300 x 100	526980
12 x 6	300 x 150	526982

45° Double Wye Sp x Sp x Sp x Sp



FOR USE WITH		
MJ GREY™		
8	200	526975
10	250	526979
10 x 8	250 x 200	526978
12 x 8	300 x 200	526983
12 x 10	300 x 250	526984

PRODUCT SELECTION CHART - SYSTEM XFR

Dimension	Product Code	
	inches	mm

Double 45° Wye H x H x H x H



Dimension	inches	mm	Product Code
1-1/2	40	526637	
2	50	526456	
2 x 1-1/2	50 x 40	526642	
3	75	526639	
3 x 1-1/2	75 x 40	526643	
3 x 2	75 x 50	526644	
4 x 3	100 x 75	526457	
6	150	426752	
8	200	426755	
8 x 4	200 x 100	426753	
8 x 6	200 x 150	526754	
10	250	426759	
10 x 4	250 x 100	426756	
10 x 6	250 x 150		
10 x 8	250 x 200	426758	
12	300	426764	
12 x 4	300 x 100	426760	
12 x 6	300 x 150	426761	
12 x 8	300 x 200	426762	
12 x 10	300 x 250	426763	
14 x 4	350 x 100	526009	
14 x 6	350 x 150	526005	
16 x 4	400 x 100	526010	
16 x 6	400 x 150	526772	
18 x 4	450 x 100	526778	
18 x 6	450 x 150	526779	

Increaser Coupling H x H



Dimension	inches	mm	Product Code
2 x 1-1/2	50 x 40	526362	
3 x 1-1/2	75 x 40	526363	
3 x 2	75 x 50	526364	
4 x 1-1/2	100 x 40	526369	
4 x 2	100 x 50	526365	
4 x 3	100 x 75	526366	
5 x 3	125 x 75	526944	
6 x 4	150 x 100	526860	
8 x 4	200 x 100	526861	
8 x 6	200 x 150	526867	
10 x 4	250 x 100	526862	
10 x 6	250 x 150	526868	
10 x 8	250 x 200	526900	
12 x 6	300 x 150	526869	
12 x 8	300 x 200	526901	
12 x 10	300 x 250	526907	

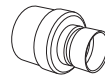
Dimension	Product Code	
	inches	mm

Reducer Bushing Sp x H



Dimension	inches	mm	Product Code
2 x 1-1/2	50 x 40	526282	
3 x 1-1/2	75 x 40	526292	
3 x 2	75 x 50	526284	
4 x 2	100 x 50	526288	
4 x 3	100 x 75	526286	
6 x 4	150 x 100	526054	
8 x 4	200 x 100	526446	
8 x 6	200 x 150	526447	

Reducer Bushing (Extended) Sp x H



Dimension	inches	mm	Product Code
10 x 4	250 x 100	526296	
10 x 6	250 x 150	526297	
10 x 8	250 x 200	526962	
12 x 4	300 x 100	526963	
12 x 6	300 x 150	526964	
12 x 8	300 x 200	526965	
12 x 10	300 x 250	526966	
14 x 10	350 x 250	526960	
14 x 12	350 x 300	526913	
16 x 12	400 x 300	526004	
16 x 14	400 x 350	526927	
18 x 14	450 x 350	526932	
18 x 16	450 x 400	526933	

Reducer Bushing (Extended) Sp x Sp

FOR USE WITH
MJ GREY™



Dimension	inches	mm	Product Code
10 x 8	250 x 200	526981	
12 x 8	300 x 200	526767	
12 x 10	300 x 250	526768	
14 x 10	350 x 250	526934	
14 x 12	350 x 300	526935	
16 x 12	400 x 300	526936	
16 x 14	400 x 350	526937	
18 x 14	450 x 350	526938	
18 x 16	450 x 400	526939	

Male Adapter H x MPT



Dimension	inches	mm	Product Code
1-1/2	40	526331	
2	50	526332	
3	75	526333	
4	100	526334	

Female Adapter H x FPT




Dimension	inches	mm	Product Code
1-1/2	40	526341	
2	50	526342	
3	75	526343	
4	100	526344	

PRODUCT SELECTION CHART - SYSTEM XFR

	Dimension		Product Code
	inches	mm	

Coupling H x H

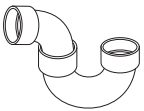
	1-1/2	40	526351
	2	50	526352
	3	75	526353
	4	100	526354
	6	150	526356
	8	200	526358
	10	250	526359
	12	300	526360
	14	350	526361
	16	400	526367
	18	450	526368

Plastic MJ Spigot MJ Sp x H


	2	50	526522
	3	75	526523
	4	100	526524

Adapts M-J Cast Iron Pipe to Plastic DWV Pipe


P Trap Solvent Weld H x H

	1-1/2	40	526431
	2	50	526432
	3	75	526433
	4	100	526434

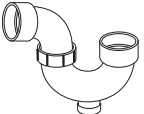
P Trap Solvent Weld with Cleanout H x H

	1-1/2	40	526441
	2	50	526442

P Trap Union Connection H x H

	1-1/2	40	526443
	2	50	526444

P Trap Union Connection with Cleanout H x H


	1-1/2	40	526505
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U Bend H x H

	4	100	526499
	6	150	426503


	Dimension		Product Code
	inches	mm	

Fitting Trap Adapter Sp x Slip Joint

	1-1/2	40	426304
	2	50	426305


Plastic Nut & Washer

Pipe Trap Adapter H x Slip Joint

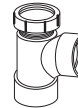
	1-1/2	40	526321
	1-1/2 x 1-1/4	40 x 32	526329

Plastic Nut & Washer


90° Pipe Trap Adapter H x Slip Joint

	1-1/2 x 1-1/2	40 x 40	526330
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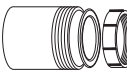
Sanitary Tee Trap Adapter H x Slip Joint x H

	1-1/2	40	426179
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Copper to DWV Pipe Adapter H x Slip Joint


	1-1/2	40	426320
	1-1/2 x 1-1/4	40 x 32	426430
	2	50	426510

Tail Piece Adapter Sp x Slip Joint

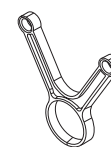
	1-1/2	40	526555
	1-1/2 x 1-1/4	40 x 32	526556

Plastic Nut & Washer

Swivel Strainer Adapter H x Swivel Nut


	1-1/2	40	426894
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Water Line Guide


	1-1/2 x 1/2	40 x 12	526014
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PRODUCT SELECTION CHART - SYSTEM XFR


	Dimension		Product Code
	inches	mm	


Clotet Flange	One Piece Plastic Slip		
	4	100	526573
	4 x 3	100 x 75	526584


	Dimension		Product Code
	inches	mm	


Adjustable Clotet Flange	w Plastic Ring Slip w Molded Test Plate		
	4 x 3	100 x 75	526588

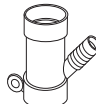
Clotet Flange	One Piece Plastic Slip w Spigot End		
	4 x 3	100 x 75	526592


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


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


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

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

Dishwasher Wye	H x H x Hose Barb		
	1-1/2 x 1-1/2 x 1/2	40 x 40 x 12	526495
	1-1/2 x 1-1/2 x 3/4	40 x 40 x 20	526496

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

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

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