Submittal Data Sheet

Date

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Drain-Guard[™] Double Containment

Depending on your application, Drain-Guard meets the same requirements of System 15 and

System XFR

MJ Grey[™] Mechanical Couplings Used with System 15 and/or System XFR



introduction

PVC is the most frequently specified of all thermoplastic piping materials. It has been used successfully for over 60 years. PVC is characterized by distinctive physical properties, and is resistant to corrosion and chemical attack by acids, alkalis, salt solutions and many other chemicals.

PRODUCT SIZES

System 15® System XFR®	1-1/2" - 24" (40mm - 600mm) 1-1/2" - 18" (40mm - 450mm)
Drain-Guard™	Depending on your application, Drain-Guard is a double containment piping system using System 15 and or System XFR as its primary components.
	Carrier: 1-1/2" – 8" (40mm – 200mm Containment: 4" – 12" (100mm – 300mm) (Larger sizes available upon request)
MJ Grey™	8" – 12" (200mm – 300mm)



Products manufactured by/for IPEX Inc.

Canada: Website: ipexna.com • To

Toll Free: 866-473-9462

Product Data Sheet

PRODUCT INTRODUCTION

System 15[®], System XFR[®] and Drain-Guard[™] by IPEX are compatible product lines designed for use in Drain, Waste and Vent (DWV) applications for buildings designated as noncombustible construction.

While both thermoplastic systems meet the demanding Flame Spread Rating requirements for noncombustible construction, System XFR also meets the Smoke Developed Classification requirements for installation in high buildings and air plenum spaces.

System 15®

System 15 DWV is certified to CSA B181.2, made to Schedule 40 thickness and exhibits a Flame Spread Rating of not greater than 25 as per ULC S102.2 test methods. With some restrictions, System 15 is permitted for use in many commercial DWV applications.

System 15° vs ABS

System 15 is a premium choice for DWV piping versus either ABS solid wall or cell core pipe. System 15 will provide designers and building owners with 40% greater tensile strength, 40% lower expansion contraction movement, greater chemical resistance, less noise generation and superior fire resistance than ABS.

System XFR®

System XFR DWV is also certified to CSA B181.2 and made to Schedule 40 thickness. System XFR is listed to ULC S102.2 to exhibits a Flame Spread Rating of not greater than 25 as well as a Smoke Developed Classification of not greater than 50. Having this makes System XFR permissible for use in High Buildings (as defined in NBC section 3.2.6) and Air Plenums (section 3.6.4.3).

Drain-Guard[™] Double Containment

Depending on your application, Drain-Guard is a double containment piping system using System 15 and or System XFR as its primary components. The many performance benefits of System 15 and System XFR are enhanced by this dual pipe concept, including excellent thermal properties, improved flow, longevity and durability, and the security of meeting all code requirements for noncombustible buildings.

Drain-Guard piping systems provide safe transport of sanitary or storm drainage in critical areas. Should a leak occur, people, equipment and valuable property will be protected from possible harm.

Contact IPEX Inc. for product availability and pricing for a customized solution on your project.

MJ Grey[™] Mechanical Couplings

MJ Grey couplings are a mechanical joint assembly suitable for use on IPEX System 15 or System XFR DWV piping sizes 8" through 12", are certified to CSA B602 and are listed to ULC S102.2 to exhibit a Flame/Smoke rating of 25/50.

Material Description

DESIGN AND INSTALLATION

The design and installation of PVC systems shall be performed in accordance with the recommendations detailed in the Handling and Installation section of this Submittal Data Sheet, local and national regulations where applicable.

To ensure the full integrity of the completed system, all components shall be supplied by IPEX.

VISUAL ID

From a distance, there are some differences in appearance between System 15 and System XFR to help with their identification.

The photo below shows the position of one of two labels on System XFR fittings and a close-up of information printed on the label.

Description	System 15	System XFR
Colour	Light grey	Dark grey
Pipe Print Line	Black	Green
Fitting Labels	White	Green







MJ Grey couplings can be easily differentiated from standard cast iron couplings by noting that the rubber interior sleeve is grey in colour (versus the traditional black colour) and exterior identification labels showing the System XFR trade name and the Flame and Smoke values as per ULC S102.2.



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Dimensions and Weights

Pipe Dimensions

The physical dimensions and tolerances of System 15 and System XFR pipe and fittings meet the requirements of CSA B181.2.

System15[®] & System XFR[®] Pipe Dimensions

Diameter (in.)	Avg. Outside Diameter (in.)	Impact Resistance ft.lb at 0°C
1-1/2	1.9	52
2	2.4	66
3	3.5	85
4	4.5	100
6	6.6	100
8	8.6	130
10	10.8	140
12	12.8	150
14	14.0	165
16	16.0	175
18	18.0	200
20	20.0	220
24	24.0	220

NOTES:

- System XFR is now available up to 18" diameter
- System XFR is made in 12 foot lengths only for all sizes
- System 15 pipe lengths of 12 foot are plain end while 20 foot lengths of pipe are solvent bell ended
- System 15 24" diameter pipe is not ULC Listed for a Flame Spread Rating

Pipe Weight

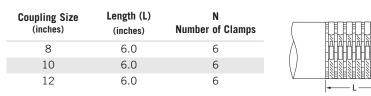
Weight differences between various materials can influence a project significantly. During handling and installation, heavier piping products may incur additional costs for the extra manpower and equipment. Other effects of heavier systems may include reduced daily production levels, and impact on worker safety and fatigue.

The table below compares the weights of three more commonly specified DWV piping materials.

Weight Comparison

Size		m 15° tem XFR°	Cast	Iron
(in.)	(lb/ft)	(kg/m)	(lb/ft)	(kg/m)
1-1/2	0.4	0.5	2.7	4.0
2	0.5	0.7	3.7	5.5
3	1.0	1.5	5.0	7.5
4	1.5	2.2	7.0	10.4
6	2.6	3.8	11.5	17.1
8	3.8	5.7	16.0	23.8
10	5.4	8.1	25.5	38.0
12	7.2	10.7	30.0	44.7
14	8.5	12.7	-	-
15	-	-	52.5	78.2
16	11.2	16.6	-	-
18	14.1	21.0	-	-
20	16.5	24.6	_	_
24	23.0	34.3	-	-

MJ Grey[™] Dimensions





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SYSTEM XFR° DWV

Product Availability

		ension	Product
	inches	mm	Code
45° Wye H	хНхН		
	1-1/2	40	526171
\bigcirc	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
g	3	75	526173
\bigcirc	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
	10 × 0	430 X 130	520720
45° Wye S	рхНхН		
Ph	3	75	426635
\square	3 x 1-1/2	75 x 40	426638
$ \downarrow \rangle$			
			FOR USE WITH
45° Wye S	p x Sp x H	000 100	MJ GREY
\bigcirc	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
\bigcirc	12 x 6	300 x 150	526993
45° Wye S	р х Ѕр х Ѕр		FOR USE WITH
,• 0	8	200	MJ GREY 526987
\bigcirc	10 x 8	250 x 200	526990
		250	526991
	10		
	10 12 x 8		
	12 x 8	300 x 200	526994
0			

Products	manufactured	by/for	IPFX	Inc
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	Dimension		Product
	inches	mm	Code
Double 45° Wye	НхНхН	хН	
	1-1/2	40	526637
$\sim \odot$	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	426757
	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	100 x 150	526772
	18 x 4	450 x 100	526778
	18 x 6	450 x 150	526779

45° Double Wye	Sр x Sр x	ΗхΗ	
	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
\bigcup	12 x 6	300 x 150	526982
\bigcirc	12 X 0	500 X 150	520902

45° Double Wye Sp x Sp x Sp x Sp

$\langle Q \rangle$

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

