PRODUCT INFORMATION BULLETIN
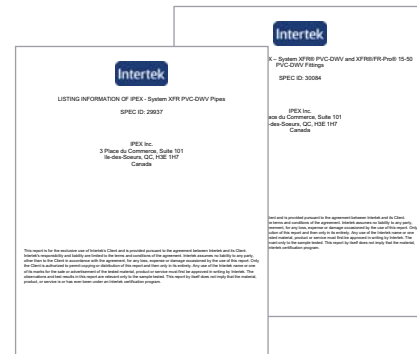
The IPEX Complete System Advantage

IPEX customers and regulators rely on the quality and performance of IPEX products. Quality and performance are enhanced by obtaining certification from accredited third party agencies such as CSA, NSF, ULC, ITS (WH mark) and others. Only agencies accredited by the Standards Council of Canada are permitted to certify products in Canada.

Some IPEX products are required to meet a single standard, for example CSA B181.2 for PVC DWV which defines minimum material requirements, dimensions, impact resistance and other performance requirements, as well as requirements for product marking.

For PVC DWV, meeting the CSA standard is only part of the required approval process. The next step involves certification to account for product installation in a particular application. This step will require reference to the applicable Building and Plumbing Codes. The Codes set requirements to ensure public safety. **An important public safety requirement is Flame Spread (FS) and Smoke Development (SD) as defined in the ULC S102.2 standard.** In the case of DWV in a Non-Combustible Building, the following applies:

- All DWV must have FS ≤ 25 (ULC S102.2)
- If building is high-rise, or a return air plenum, also need SD ≤ 50
- All piping through walls and floors must be firestopped with a ULC S115 listed device or system
- Combustible pipe is not permitted in Vertical Service Spaces

How do customers and regulators confirm that products meet these Code requirements? The answer is in the product markings but without product on hand to examine, one may also look at the product listing (certification documents) as published by the certifying agency.
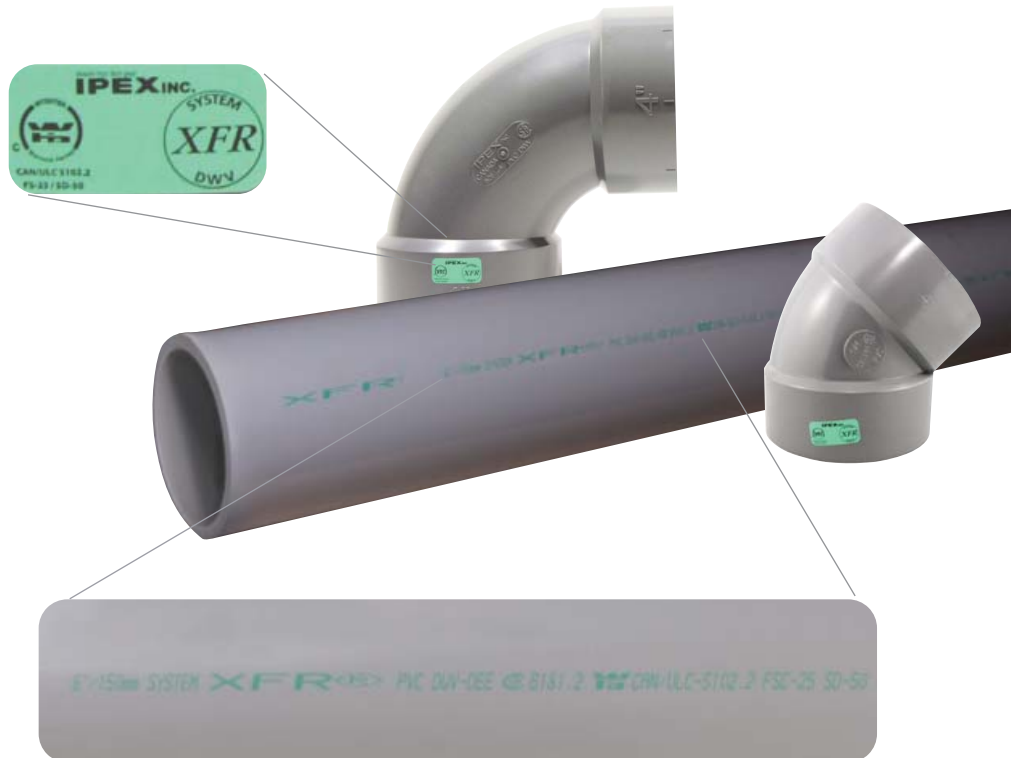
Warnock Hersey

CSA B181.2

CAN/ULC S102.2

IPEX

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In some cases the certification documents provide details for product use including how the product was tested and how it should be installed. In the case of IPEX System XFR® PVC DWV Pipe and Fittings, there is a listing to the CSA B181.2 standard as noted above and separate pipe and fittings listings to ULC S102.2.

The ULC S102.2 listing for System XFR and FR-PRO fittings are very clearly written to mandate that the fittings are used in conjunction with IPEX System XFR pipe. The reason that this direct reference to pipe exists in the listing is because the ULC S102 and S102.2 standards state: "fittings shall be tested mounted to plastic pipe" (S102.2 references S102 for mounting requirements for plastic pipe and fittings).

IPEX System XFR Fittings and FR-PRO fittings have only been tested and certified with one brand of pipe – IPEX System XFR. Thus, the Flame and Smoke listing for System XFR Fittings and FR-PRO fittings would be invalid should the fittings be used with any other brand of pipe.

System XFR® Printing Code:

SYSTEM XFR® PVC DWV-DEE (SA)® B181.2 ▓▓ CAN/ULC-S102.2 FSC-25 SD-50

Installers and regulators are encouraged to examine product markings with respect to certifications and should feel free to contact the relevant certification agency for a copy of any company's listing. Doing so will ensure that products meet the required standards mandated in the Building and Plumbing Codes and that they are installed in the correct application.