

**BUILDING MATERIALS EVALUATION COMMISSION
(BMEC)**

**DATE OF AUTHORIZATION
BMEC AUTHORIZATION
BMEC APPLICATION**

**May 30, 2002
BMEC # 02-02-273
#A2002-04**

IPEX Single and Double PVC Apartment Fittings

1. Applicant

IPEX Inc.
Port of Montreal Building
Wing 3, 1st Floor, Cite du Havre
Montreal, Quebec
Canada
H3C 3R5

Tel: (514) 861-7221
Fax: (514) 861-9502

2. Manufacturing Facilities

IPEX Inc.
6810 Invader Crescent
Mississauga, Ontario
Canada
L5T 2B6

3. Description

The IPEX: Single PVC Apartment Fitting consists of: a 3"(75 mm) spigot and hub main fitting tee pipe, a 3" (75 mm) sanitary tee (hub), and two 1½" (150 mm) side inlets (hubs) at a 90° angle between each other. These side inlets are located above the sanitary tee branch and oriented 45° offset with reference to the sanitary tee.

The IPEX: Double PVC Apartment Fitting consists of: a 3"(75 mm) spigot and hub main fitting tee pipe, two diametrically opposite 3" (75 mm) sanitary tees (hub), four 1½" (150 mm) side inlets (hubs) at a 90° angle between each other. These side inlets are located above the sanitary tee branch and oriented 45° offset with reference to the sanitary tee.

4. Authorization requested

The applicant sought authorization for the use of the IPEX: Single and Double PVC Apartment Fittings as part of a drainage system for a multi storey apartment building using a modified stack configuration as referred to in Articles 7.2.4.5. and 7.2.4.1. of the 1997 Ontario Building Code as amended.

5. Assessment

Reports and assessments provided by the applicant demonstrate that if the IPEX: Single and Double PVC Apartment Fittings are constructed, installed, operated, maintained and monitored in accordance with the limitations of the manufacturer's specifications and the conditions stated in this authorization, a level of performance equivalent to that required by the 1997 Ontario Building Code as amended will be provided.

Reports assessments, information submitted, and reviewed:

1. Technical Background Information Memo relating to IPEX: Single and Double PVC Apartment Fittings, dated May 6, 2002.
2. CSA Certificate of Compliance for both single and double PVC Apartment fittings, issued January 19, 2001.
3. Minutes of Plumbing Officials' Association of British Columbia meeting of September 6, 2001.
4. Approval letter from the Regional Municipality of Halifax Plumbing Inspector, dated August 14, 2001.
5. Approval correspondence from the City of Winnipeg, Manitoba dated September 05, 2001.
6. CSA correspondence, dated January 12, 2001.
7. IPEX: Quality Control Manual of the final assembly, single fitting.
8. IPEX: Quality Control Manual of the final assembly, double fitting.
9. Installation Manual.
10. National Building Code of Canada, specific references.

6. Authorization

The IPEX: Single and Double PVC Apartment Fittings are authorized for use in a drainage system for a multi storey apartment building using a modified stack configuration as referenced in Articles 7.2.4.5. and 7.2.4.1. of the 1997 Ontario Building Code as amended, all other requirements pertaining to the installation of the IPEX: Single and Double PVC Apartment Fittings shall conform to the requirements of the 1997 Ontario Building Code as amended, and are subject to the following terms and conditions:

A. Specific Terms and Conditions

1. This authorization is valid only for IPEX's: Single and Double PVC Apartment Fittings ("the IPEX Fittings").
2. The IPEX Fittings shall be a factory assembled unit and shall not be site assembled.
3. The IPEX Fittings is permitted in single and double configurations as a specially designed device or system.
4. The IPEX Fittings shall meet the smoke and flame spread requirements of the 1997 Ontario Building Code as amended.
5. The IPEX Fittings shall not be used for modified stack venting in a high-rise building.
6. The IPEX Fittings shall not be installed within a supply or return air plenum.
7. The IPEX Fittings must be provided with a clean-out above the flood level rim of the highest fixture that the IPEX Fittings serves.
8. The IPEX Fittings shall be installed as per CSA B181.2, "PVC Drain, Waste, and Vent Pipe and Pipe Fittings."
9. The IPEX Fittings shall be marked, and certified to CSA B181.2, "PVC Drain, Waste, and Vent Pipe and Pipe Fittings" as single factory assembled unit.

B. General Conditions

1. The use of the IPEX: Single and Double PVC Apartment Fittings must comply with the *Building Code Act, 1992* as amended or re-enacted from time to time and except as specifically authorized herein, with the OBC as amended or remade from time to time.
2. A copy of this Authorization shall accompany each application for a building permit and shall be maintained on the site of the construction with the building permit.
3. The Applicant named in Part 1 hereof shall promptly notify the BMEC of:
 - (a) the failure of the applicant, or of the material, system or building design that is the subject matter of this authorization, to comply with any of the Specific Terms and Conditions set out in 6. A. above; or
 - (b) the occurrence of any of the events described in Specific Terms and Conditions 6. B. 4. (a) and (b) (ii) below.
4. The BMEC may amend or revoke this Authorization where it determines that:
 - (a) any change has been made to:
 - (i) the material, system or building design that is the subject matter of this authorization;
 - (ii) the address of the applicant specified in Part 1 of this authorization; or,
 - (iii) the ownership of the applicant specified in Part 1 of this authorization.
 - (b) the use of the material, system or building design authorized herein;
 - (i) does not comply with the *Building Code Act, 1992* or any relevant legislation as they may be amended or re-enacted from time to time; or
 - (ii) provides an unsatisfactory level of performance, in situ.

- (c) the applicant, or the material, system or building design that is the subject matter of this authorization, has failed to comply with any of the Specific Terms and Conditions set out in this Authorization; or
 - (d) any Ontario Building Code provision relevant to this Authorization has been amended or remade.
5. Where the Commission receives additional information concerning the material, system or building design authorized herein, the Commission may review this Authorization and the Commission may after the review amend or revoke this Authorization as in the opinion of the Commission may be necessary.

Dated at Toronto this 30th day of May 2002.

BUILDING MATERIALS EVALUATION COMMISSION

per: Rashmi Nathwani, Chairman