

ZERO OZONE
DEPLETION SUBSTANCE

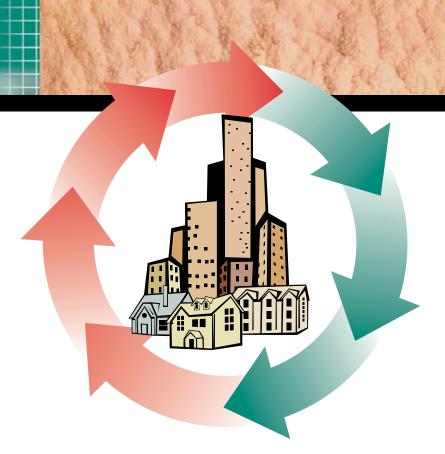
**RECYCLED PLASTICS** 

**VEGETABLE OIL** 

**ECOLOGICAL INSULATION** 

# The All-In-One Wall System

- Air Infiltration A Vicious Circle
- In cool weather, heat escapes
- In warm weather, cool air escapes
- Air infiltration takes away your energy efficiency



### **INSULATION, AIR BARRIER & VAPOUR BARRIER**

CCMC Approved Insulation Material, Air Barrier Material #13244-L and Vapour Barrier





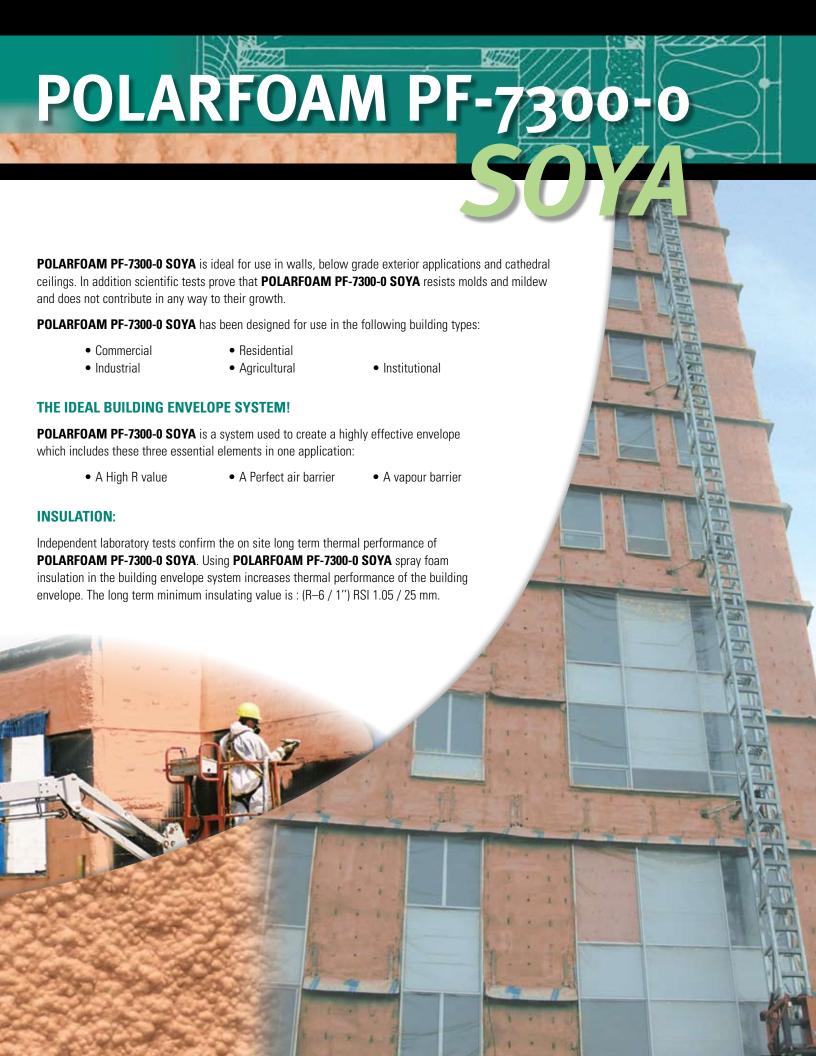
# and Air Barrier Wall System

# the science behind the science polarfoam PF-7300-0 SOYA SUSTAINABLE DEVELOPMENT

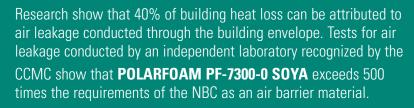
**POLARFOAM PF-7300-0 SOYA** an environmentally friendly high performance, closed cell rigid polyurethane foam used for insulation, is spray-applied exclusively by certified applicators in accordance with the standards CAN/ULC S705.2 (Standard for Thermal Insulation Spray Applied Rigid Polyurethane Foam, medium density – Applicator's responsibilities) with third party quality control inspection throughout Canada.

**POLARFOAM PF-7300-0 SOYA** is fully self-adhered to the substrate which makes your building much stronger and much stiffer. There is no air space between the insulation material and the substrate, no joints, no glue, no mechanical fasteners and no convection air movement. With **POLARFOAM PF-7300-0 SOYA**, you get 100% of the insulating value during the lifetime of the building.





# Air Barrier:



These results confirm that POLARFOAM PF-7300-0 SOYA is one of the highest performance air barrier materials on the market and this feature is the key element in an air barrier system that meets the objectives of the NBC.

By creating a sealed air barrier and eliminating air exfiltration,

POLARFOAM PF-7300-0 SOYA does not allow wall
condensation that can often result in mold, mildew and wall
degradation. POLARFOAM PF-7300-0 SOYA fully adheres
to provide a seamless, monolithic air barrier that conforms to
irregular shapes and allows easy detailing around penetrations.
Its closed cell rigid polyurethane foam formulation creates an
effective, rigid, seamless and durable air barrier.

- National Building Code requirements : Air barrier material = 0.02 L / (s.m²) @ 75 Pa
- Tested results of POLARFOAM PF-7300-0 SOYA:
   Air barrier material, thickness 25 mm = 0.00004 L / (s.m²) @ 75 Pa



Water vapour permeance is the speed to which water goes through an homogeneous material. The National Building Code, stipulates that a vapour barrier must have a water vapour permeance less than 1.05 PERM (60 ng/Pa•s•m²).

- 75 mm of **POLARFOAM PF-7300-0 SOYA** spray applied on an exterior gypsum board = 44 ng / Pa•s•m² (0.77 PERM).
- 75 mm of **POLARFOAM PF-7300-0 SOYA** spray applied on concrete blocks = 22 ng / Pa•s•m² (0.38 PERM).

When a building envelope assembly contains only a plastic foam as insulating material and that the permeance rate of this assembly is less than 1.05 PERM (60 ng / Pa•s•m²), this assembly does not need any additional vapour barrier.

As far as sustainability of the building envelope is concerned, it is imperative to have a perfect continuity of the air barrier material which is much more important than the performance of the vapour barrier.







## www.polyurethanefoamsystems.com

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You have our teams assurance of quality and service.

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#### A HIGH PERFORMANCE PRODUCT APPLIED EXCLUSIVELY BY LICENSED PROFESSIONALS.

The CCMC assigned design thermal resistance is 1.05 RSI per 25.4mm or R6 per inch. The user should verify the local fire and building regulations for covering the surface of spray applied polyurethane insulation to protect it against fire, excessive heat and excessive moisture. The foam product made from these chemicals is combustible. Do not expose to flames or other ignition sources. The information, recommendations and data contained in this document are believed to be accurate, however, no warranties, guarantees or representations of any kind or nature whatsoever are made as to the accuracy, completeness or suitability thereof any specific purpose and PFSI Inc. makes no warranty of results to be obtained thereof or that such use will not infringe any patent. It is expressly understood that PFSI Inc. shall not be deemed or held liable upon or under any representation, recommendation or data herein.