



BOOTH PRECAST PRODUCTS LTD.

FLOORING AND PRECAST PRODUCTS
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The Irish Agrément Board is designated by Government to issue European Technical Approvals.

Irish Agrément Board Certificates establish proof that the certified products are 'proper materials' suitable for their intended use under Irish site conditions, and in accordance with the **Building Regulations 1997 to 2002**.

The Irish Agrément Board operates in association with the **National Standards Authority of Ireland (NSAI)** as the National Member of UEAtc.

BOOTH PRECAST PRODUCTS Ltd. PRECAST FLOORING AND CHIMNEYS

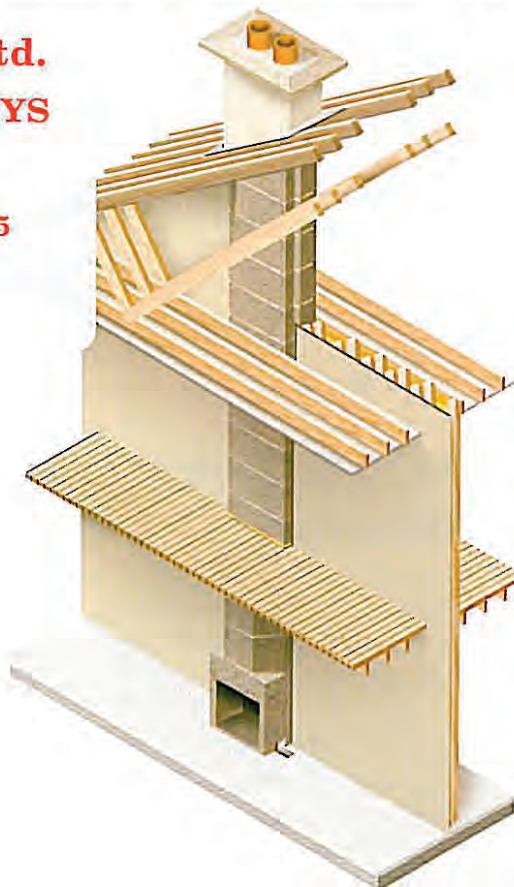
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Figure 1
 Twin Fireplace system
 going through Timber
 Frame Party wall.



PRODUCT DESCRIPTION:

This Certificate relates to the prefabricated Perla Lite Chimney Systems, incorporating lightweight concrete blocks, clay flue liners and preformed insulation.

The Perla Lite Chimney system consists of lightweight concrete outer chimney blocks, acid resistant clay internal flue liners which are surrounded by a preformed moisture resistant rock wool insulation. Each system is factory assembled in pre-determined lengths from individual block units to order, then transported to the site and installed by Perla Ltd. or their approved contractors. Each assembly is reinforced with steel rods and a series of special connectors/anchors which are tightened together with nuts to a preset torque of 4Nm on both the factory assembled sections and on final installation on site. The chimney system is available in both single and double assemblies with appropriate fireplace units.

The Single Flue Perla Lite Chimney consists of a fireplace unit and gatherer cast in normal dense concrete and chimney blocks typically 445mm x 445mm x 435mm high, in lightweight concrete. The Double Flue Perla Lite Chimney also consists of a fireplace unit and gatherer cast in normal dense concrete and assembled with two different dimensional chimney blocks. The lower "Shamrock" blocks typically 970mm wide x 435mm high x 900mm deep, and "standard" blocks 970mm wide x 435mm high x 445mm deep.

Both Single and Double Chimneys incorporate

- 200mm nominal acid resistant rebated flue liners jointed with a proprietary acid resistant mortar. The flue liners are surrounded with a high temperature moisture resistant rock wool insulation.
- Glass Reinforced Concrete corbels, Glass Reinforced Plastic covers and prefabricated dense concrete capping units.

Booth Precast Chimney Systems

Introduction

Traditionally, chimneys are constructed on site with separate components supplied by different manufacturers. This process is labour intensive and makes it difficult to ensure consistent insulation. By contrast the Chimney System offers modular, prefabricated units to speed construction and facilitate consistent quality standards,

Product Description

The Booth Precast Chimney System is a prefabricated, insulated chimney system for use in domestic accommodation. The chimney systems are available in flat pack detailed throughout the Booth Precast website.

The concept involves a modular 3-layer insulated chimney system:

1st layer

A high quality rebated flue liner, made of fireclay, tested to EN1457.

2nd Layer

A flexible rockwool insulation of density $901 < \text{g/m}^2$ designed to maintain the temperature of the flue gases and allow them to pass freely up the chimney. It also allows the liner to expand and contract without damage.

3rd Layer

A lightweight aggregate chimney block which safely encases the entire system and provides additional insulation.

General Uses

• Designed for speed of construction

An 8 meter internal chimney can be constructed from ground floor to chimney pot in 5 hours.

• Suitable for Timber Frame, Steel Frame, ICF (Insulated Concrete Formwork) & Masonry construction

Solutions have been specifically designed to meet the requirements of timber framed construction.

• Modular units for easy assembly on site or prefabricated in sections for larger projects

• Multi Fuel Compatible

Suitable for all fuels - gas, oil, wood and solid fuels,

• Everything you need

All the components required to construct the chimney from the ground floor to the chimney pot are supplied on one or two pallets.

• Superior Insulation

The consistency of the insulation maintains the temperature of the flue gases allowing them to pass freely up the chimney. Back filling of insulation is not required.

