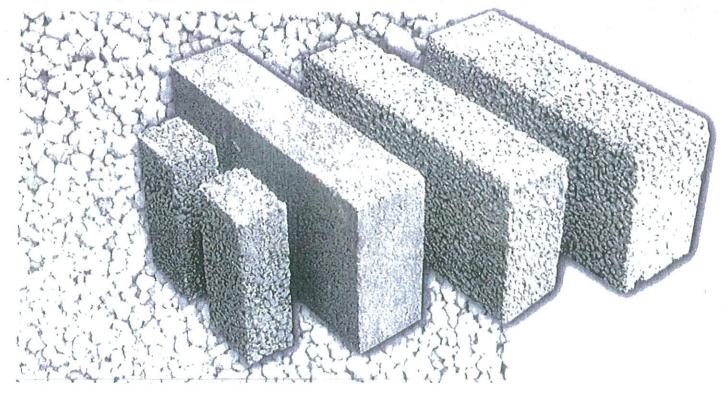
BOOTH PRECAST PRODUCTS LTD. PRECAST FLOORING AND CHIMNEYS PRODUCTS

Office: BALLYMULLEN, ABBEYLEIX, LAOIS, TEL: 057-8731840, FAX: 057-8731875

Lightweight Aggregates

HEAVY DUTY reasons to choose Greek pumice:

- Improved load bearing strengths of blocks 7N/mm² -10.5N/mm² and greater.
- Cost effective improved insulation, energy saving.
- Environmentally friendly it is a natural waste product; it is a chemically and physically stable material.
- Durability one of the oldest building materials known to mankind; its Pozzolanic properties continue to harden year after year without any degradation.



BLOCK FEATURES

- Load bearing strengths of 7N/mm² and greater.
- Workability pumice blocks 100mm, 10 kgs per block.
- Low-thermal conductivity of 0.32 W/M°C.
- Improves sound insulation.
- Fire resistance pumice 100mm gives a minimum of 2 hour fire rating for load bearing walls. Non load bearing walls 4 hours.
- Strong blocks for fixing can be drilled and plugged with ease, no special fixings are required.
- Can be used below D.P.C. to reduce cold barrier with 7N Pumice blocks and greater.
- Excellent plaster key no need for bonding agents.
- Fewer breakages design strength ensures heavy handed treatment will keep physical and financial damage to a minimum.
- Economy efficiency of transport and of handling a lightweight pumice block.

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7N/mm² 100mm Block Comparison for Weight and Thermal Resistance

	Normal Density	Medium Density	Light Density Pumice
Weight	2000 Kg/m³	1500 Kg/m³	1010 Kg/m³
Thermal Resistance	1.13 W/m° C	0.585 W/m° C	0.320 W/m°C
Strength	7 N/mm²	7 N/mm²	7 N/mm³

Moisture content conditioned + 3%

Achieving Target U-Value with Pumice Lightweight Block.

Temening range o raide man rain	TIGHT CIGHT DIOCK.	d(mm)	λ Layer	R Layer
	Rsi	-	н — «Мето на него поставу по при него почето при почето почето почето почето почето почето почето почето почет В него почето п	0.130
	Plaster Skim	3	0.180	0.017
	Render (Gypsum, Sand)	13	0.570	0.023
	— Pumice 100mm Block	100	0.320	0.313
	—— Fulfil Insulation Board	95	0.031	3.065
	Cavity Unventilated	10	R-Value	0.150
	Block Outer Leaf	100	1.13	0.089
	Ext. Render Finish	19	0.500	0.038
	RSO	[м	-	0.040
\blacksquare		240/T	1147.11771.1	20/5

340mm (Total Wall Thickness) 3.865

U-Value = $0.26W/^2K$

Where to Apply its Strength

Industrial- Pumice blocks are ideal for factory or industrial plant walling where weight saving, high strength and low material costs are of prime importance.

Commercial- Structural soundness, simplicity of compliance with thermal regulations for offices, institutional buildings and shops can be met by pumice blocks.

Domestic- Pumice blocks have strength to carry floor slabs and can offer thermal efficiency. Pumice concrete for floor screed to hold thermal insulation. Pumice aggregate for chimney lining as loose fill, non-combustible light weight mineral aggregate with excellent insulation properties.

Agricultural- Pig and poultry units, walling. Pumice blocks can offer thermal efficiency and reduce condensation.

Pumice concrete for pig unit flooring to hold thermal insulation and strength.