

Aggregate Blocks Pocket Guide

CONBLOC

a Forterra brand

Aggregate blocks

Forterra is a market leader in the manufacture and supply of aggregate concrete blocks and offer a variety of densities, strengths, sizes and configurations to suit any internal or external application - above or below ground.

All of our aggregate blocks contain Regen, a ground granulated blastfurnace slag (GGBS), which is a by-product of the iron-making industry and is used as a cement replacement. Its use reduces the embodied CO₂ of our aggregate blocks by up to 30 per cent, adding to their sustainability credentials.



Product Range

Forterra Conbloc aggregate blocks are manufactured to the requirements of BS EN 771-3, ensuring compliance with all relevant standards and codes of practice. The range is available in a variety of densities, strengths, sizes, configurations and finishes, to suit most applications.

Product Name	Length (mm)	Height (mm)	Width (mm)	Page no.
Dense Blocks				
Evalast Paint Grade	440	215	100	5
	440	215	140	
Evalast Background	440	215	100	6
	440	215	140	
	440	215	215*	
Evalast Coursing Unit	215	65	100	7
	440	65	140	
Lightweight Blocks				
Fenlite Paint Grade	440	215	100	9
	440	215	140	
Fenlite Background	440	215	100	10
	440	215	140	
Fenlite 1500 Background	440	215	100	10
	440	215	140	
Fenlite Coursing Unit	215	65	100	10
	440	65	140	

* Evalast Hollow

Dense Aggregate Blocks

- Evalast Paint Grade blocks
- Evalast Background blocks and coursing units

Evalast dense aggregate blocks can be used in all situations where durable, robust blockwork is required. They are an economic solution for industrial and commercial applications such as:

Warehouses

Factory Units

Offices

Schools

Leisure Centres



Evalast Paint Grade



The strength and type of aggregate used allows these blocks to be built in external applications with sustained long term durability.

The close texture of the Evalast Paint Grade products, coupled with their high strengths, provide an excellent base for a variety of standard fixing systems.

Applications

Cavity Walls	✓
Separating Walls	✓
Partitions	✓
Solid Walls	✓
Beam & Block	
Foundations	

See page 3 for product size guide.



Mean compressive strength:

10.4 N/mm²

Thermal conductivity:

1.22 W/m.K internal

1.31 W/m.K external

Dry density:

1900 kg/m³

Note: Whilst Paint Grade products have a consistency of texture, colour consistency cannot be guaranteed.

Evalast Background



Evalast Background aggregate blocks are dense concrete blocks which can be used in any part of a project. Their performance makes them especially applicable to partition and separating walls where good sound insulation and high strength is required.

These blocks are available in a range of sizes and strengths.

They are not intended to be left fair-faced, but used with a secondary finish. All products are produced to the requirements of BS EN 771-3.

Benefits

- High strength
- Excellent sound insulation
- Good thermal conductivity
- Can be recycled after use
- BES 6001 Responsible Sourcing Certification

Coursing Units

To complement the range, coursing units are available for use in conjunction with 100mm and 140mm width products.

Applications	
Cavity Walls	✓
Separating Walls	✓
Partitions	✓
Solid Walls	✓
Beam & Block	✓
Foundations	✓

See page 3 for product size guide.

	Mean compressive strength: 7.3 - 30.0 N/mm ²
	Thermal conductivity: 1.32 W/m.K internal 1.42 W/m.K external
	Dry density: 1990 kg/m ³

Note: Background blocks are not intended to be left fair-faced or painted, and should have a finish (plaster, render, plasterboard, cladding etc.) applied where the wall is to have visual importance.

Lightweight Aggregate Blocks

- Fenlite Paint Grade blocks
- Fenlite Background blocks and coursing units

Fenlite Paint Grade lightweight aggregate blocks are ideal for use where appearance and weight are of prime consideration. They are intended for internal applications where a lightweight, economic or paintable block is required for aesthetically important projects such as:

Shopping Centres

Offices

Sports Centres

Factory Units

Workshops

The close texture of Fenlite Paint Grade products, coupled with their high strength, provide an excellent base for a variety of standard fixing systems.

Fenlite Paint Grade



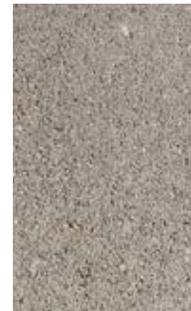
Benefits

- Consistent smooth texture, ideal for receiving a painted finish
- High strength
- Excellent base for a variety of standard fixing systems
- Can be recycled after use
- BES 6001 Responsible Sourcing Certification

Applications

Cavity Walls	✓
Separating Walls	
Partitions	✓
Solid Walls	✓
Beam & Block	
Foundations	

See page 3 for product size guide.



Mean compressive strength:

7.3 N/mm²

Thermal conductivity:

0.47 W/m.K internal

Dry density:

1450 kg/m³

Note: Whilst Paint Grade products have a consistency of texture, colour consistency cannot be guaranteed.

Fenlite & Fenlite 1500 Background



Fenlite Background aggregate blocks are lightweight blocks suitable for use in the majority of standard applications, both above and below ground. Their performance makes them suitable for general load bearing, sound insulation, and where ease of handling is important.

Benefits

- High strength
- Excellent sound insulation
- Easy to handle
- Can be recycled after use
- BES 6001 Responsible Sourcing Certification

Coursing Units

To complement the range, coursing units are available for use in conjunction with 100mm and 140mm width products.

Applications

Cavity Walls	✓
Separating Walls	✓
Partitions	✓
Solid Walls	✓
Beam & Block*	✓
Foundations	✓

See page 3 for product size guide.



Mean compressive strength:
3.6 - 10.4 N/mm²

Thermal conductivity:

Fenlite: 0.45 W/m.K internal
Fenlite: 0.48 W/m.K external
Fenlite 1500: 0.48 W/m.K internal
Fenlite 1500: 0.52 W/m.K external

Dry density:

Fenlite: 1350 kg/m³
Fenlite 1500: 1500 kg/m³

* Infill blocks for beam and block floors require a compressive strength of 7.3 N/mm²

Strength and Durability

Forterra's aggregate blocks are inherently durable and if used in accordance with the appropriate British/European Standards, will last the lifetime of the construction into which they are built.

They possess good frost resistance, provided they are selected following the recommendations of PD 6697:2010, Clause 6.2.8 and Table 15.

In the case of aggregate blocks to be used near or below ground level, the unit should meet one of the following criteria:

- a) Block density of at least 1500 kg/m^3 , or
- b) Made with dense aggregate to BS EN 12620, or
- c) Have a compressive strength of at least 7.3 N/mm^2

All Evalast blocks, together with 7.3 N/mm^2 Fenlite blocks, meet the above standards.

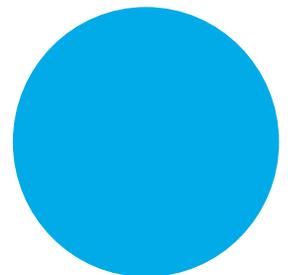
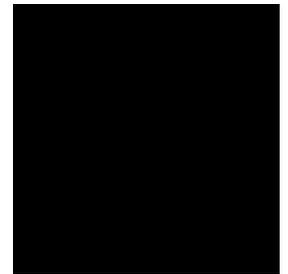


Standards and Regulations

The British/European Standards and Building Regulations that apply to the manufacture and use of aggregate blocks are always subject to revision and improvement.

Certain documents that are either in the process of change, or whose publication is imminent, cannot be fully accommodated at the time of publication, although, wherever possible, reference has been made in the text.

The Forterra website forterra.co.uk will be updated as important changes occur, but for any specific queries relating to the manufacture or application of the product, please contact the Technical Services Department on: 0330 123 1018.



Forterra the Sustainable Choice

Aggregate blocks are sustainable products that have durability in excess of 150 years, low maintenance requirements, good heat and noise insulation and can be recycled after use.

All blocks include GGBS (Ground Granulated Blastfurnace Slag), resulting in lower CO₂ emissions. They are also certified with the Responsible Sourcing of Materials standard, BES 6001, providing assurance that products conform to environmental impact specifications.

The Fenlite product range also includes up to 70% recycled raw materials.

Forterra are continually improving the sustainability credentials of products through environmental management and product development programmes.

To find out more about how Forterra embeds sustainability throughout its manufacturing processes in the UK, please visit forterra.co.uk.





Forterra is a leading manufacturer of a diverse range of clay and concrete building products, used extensively within the construction sector, and employs over 1,600 people across 18 facilities in the UK.

It is the second largest brick and aircrete block manufacturer in the country, and the only producer of the iconic London Brick. Other trusted brands from Forterra include Thermalite, Ecostock, Butterley, Cradley, Red Bank, Jetfloor and Formpave.

forterra.co.uk

Forterra
222 Peterborough Road
Whittlesey
Cambridgeshire
PE7 1PD

t: 0330 123 1015
f: 01733 206 170
e: blocks@forterra.co.uk
w: forterra.co.uk



06/2016