

Engineering Brick

cat 30/50 engineered (frogged) concrete brick with a smooth finish

HEIGHT



65

Millimetres

FINISH

SM

Smooth

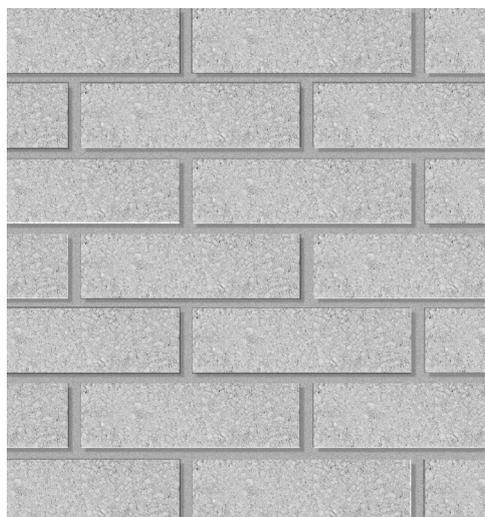


215 x 65 x 102.5 mm

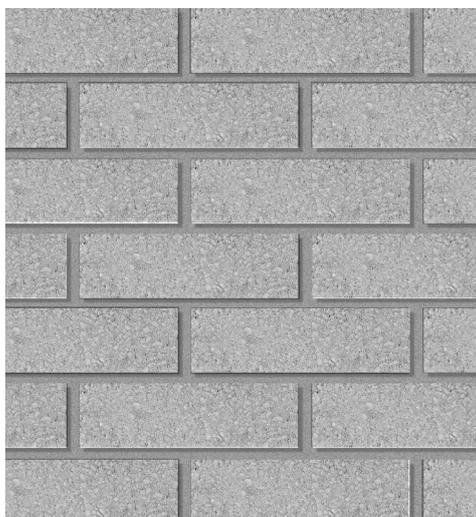
Engineering colours

COLOURS

For 'Stock Information' on colours and finish availability - see page 3.



CAT 30 – LIGHT GREY



CAT 50 – DARK GREY



Frost Resistant



Very Low Water Absorption

Engineering Brick

cat 30/50 engineered (frogged) concrete brick with a smooth finish

Engineering
Technical Information

HEIGHT



65

Millimetres

FINISH

SM

Smooth



215 x 65 x
102.5 mm

STANDARDS + PERFORMANCE

Manufactured in accordance with hEN 771-3: 2011

Specification in accordance with hEN 771-3: 2011

SUSTAINABILITY

Energy Use	100% renewable
Water Used	90% rain water harvesting
Recyclable	100% of this product can be recycled
Manufacturing	Produced in the UK from locally sourced materials
Waste Wood + Plastic:	100% recycled
BREEAM	'A' Rating – in accordance with the BRE Green Guide to Specification.

Information for a specific colour is available on request from our Technical Specification Department.

ADVICE + GUIDANCE

For advice and guidance on ordering, installation, good site practice, etc. visit our website:
www.ag.uk.com/advice+guidance

For maintenance guidance and health and safety advice visit our website:
www.ag.uk.com/maintenance

FEATURES + BENEFITS

- Can be used for building up manholes
- Can be used internally for generator rooms.
- Manufactured in a controlled environment.
- Features a frog to assist with shear key to the mortar.
- Very low occurrence of efflorescence.
- Dimensionally accurate.
- Low wastage levels.
- Frost resistant.

AG RECOMMENDATIONS

Frog

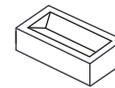
Engineering bricks should be laid with the frog facing upwards and completely filled with mortar.

Mortar Ratio

Recommended ratio 6 : 1 or 5 : 1 (Sand : OPC).

EDGES

Engineered brick is supplied with crisp, clean, sharp edges



Cat 30/50 with frog

FINISHES

Engineered Brick comes in a smooth finish for a contemporary feel.



Frost Resistant



Very Low Water Absorption

SPECIFICATION REFERENCE: NBS PLUS: F10 BRICK/ BLOCK WALLING 215 CONCRETE FACING BRICKWORK; hEN 771-3: 2011



Engineering Brick

cat 30/50 engineered (frogged) concrete brick with a smooth finish

HEIGHT



65

Millimetres

FINISH

SM

Smooth

215 x 65 x 102.5 mm

Engineering
stock information



Frost Resistant



Very Low Water Absorption

STOCK INFORMATION

Product type	Length (mm)	Depth (mm)	Height (mm)	In Stock	Available Colours	Units per pack	Unit weight (kg)	Weight per pack (t)	Packs per 8 wheeler	Packs per unit lorry
CAT 30 (with frog)	215	102.5	65	Yes	Light Grey	512	2.9 kg	1.7 t	10	15
CAT 50 (with frog)	215	102.5	65	MTO	Dark Grey	512	2.9 kg	1.7 t	10	15

NB. In stock items requiring over 10,000 no. bricks are treated as made to order.
MTO - made to order (minimum order size 10,000 no. bricks). Lead time for MTO's is 6-8 weeks.
Cat 30 and Cat 50 are not supplied on pallets. Pallets are available on request.
All size dimensions are nominal.

TECHNICAL INFORMATION

	Cat 30	Cat 50		Cat 30	Cat 50
MANUFACTURING STANDARD	hEN 771-3: 2011+A1 : 2015 Attestation Level 2+		INITIAL RATE OF ABSORPTION	0.42 Kg / m ² .m-1	0.42 Kg / m ² .m-1
COMPRESSIVE STRENGTH*	Min average 30N / mm ²	Min average 50N / mm ²	BOND STRENGTH	0.15 N / mm ²	0.15 N / mm ²
WATER ABSORPTION	5% max	5% max	REACTION TO FIRE	A1 Class	A1 Class
DURABILITY DESIGNATION	F2 Severe Exposure	F2 Severe Exposure	TYPE OF MORTAR	Recommended ratio 6 : 1 or 5 : 1 Sand : OPC	Recommended ratio 6 : 1 or 5 : 1 Sand : OPC
MEAN COEFFICIENT OF WATER ABSORPTION	1.5 g / (m ² .s)	1.5 g / (m ² .s)	WATER VAPOUR PERMEABILITY [u]	5 / 15u tabulated from EN 1745	5 / 15u tabulated from EN 1745
MOISTURE MOVEMENT COEFFICIENT**	0.46 mm / m	0.46 mm / m	PACK QUANTITY	512	512
ACTIVE SOLUBLE SALTS [SO3]	0.03%	0.03%	PACK SIZE [APX. MM]	L 850 x D 850 x H 1100mm	L 850 x D 850 x H 1100mm
SIZE TOLERANCE	hEN 771-3: 2011 (T1) Category D3		TYPICAL PACK WEIGHT	1700 Kg	1700 Kg
GROSS DENSITY	2200-2300 Kg / m ³	2200-2300 Kg / m ³	PACKAGING (FULL SHRINK BAG)	Unpalletted***	Unpalletted***
THERMAL CONDUCTIVITY	1.56 W / m.K	1.56 W / m.K			

* Compressive strength in accordance with PD 6697 : 2010 and Eurocode 6.
** Determination of moisture movement and drying shrinkage carried out in accordance with BS EN 772-14:2001 (E)
*** Pallets are available on request.

MANUFACTURING

Engineering bricks are manufactured by using advanced manufacturing processes and natural materials. All products are manufactured from natural materials and although we strive to provide consistency of colour, variation may occur in the manufacturing process - this applies to all concrete products within the industry. PLANT OF MANUFACTURE Made at our Fivemiletown Production Plant.

CERTIFICATION

ISO 9001 Quality Management.
ISO 14001 Environmental Management.
ISO 45001 Occupational Health and Safety Management.
CE Marking Download our Declaration of Performance (DOP) data at: www.ag.uk.com/resources