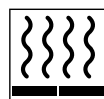
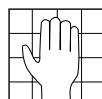


# CC Höganäs Building Ceramics

Tiles, extruded, unglazed, "Höganäs" series



Product data  
No. B 18002 Eng  
May 00



Applies to  
51-, 53-, 71-,  
72-, 73-, 80-,  
81-, 82-, 83-

Applies to  
51-, 52-, 53-,  
71-, 72-, 73-,  
80-, 81-, 82-

## Colour scale



Rustic white (Series 20-)\*\*



Ivory (Series 80-)  
Frost resistant



Rustic yellow (Series 11-)\*\*



Rustic red (Series 21-)\*\*



Yellow (Series 51-)  
Frost resistant



Grey ochre (Series 71-)  
Frost resistant



Light grey (Series 81-)  
Frost resistant



Rustic orange (Series 12-)\*\*



Rustic green (Series 22-)\*\*



Red-brown (Series 52-)



Grey pink (Series 72-)  
Frost resistant



Medium grey (Series 82-)  
Frost resistant



Rustic brown (Series 13-)\*\*



Rustic grey (Series 23-)\*\*



Blue-brown (Series 53-)  
Frost resistant



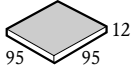
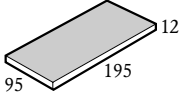
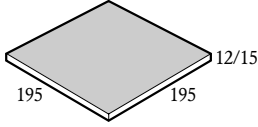
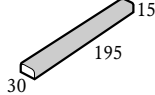
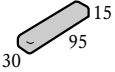
Blu-grey (Series 73-)  
Frost resistant

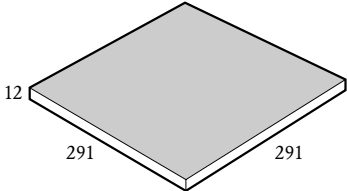
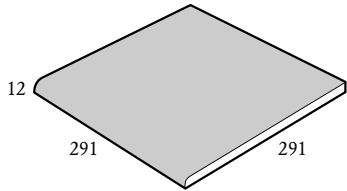
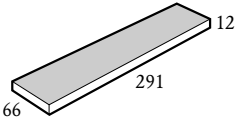


Graphite (Series 83-)  
Frost resistant

\*\* Made from selected clays giving tiles with a wide colour variation.

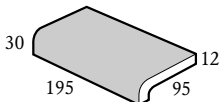
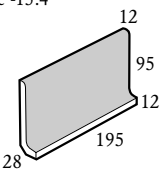
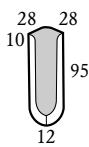
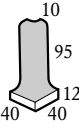
## Product range

Type, dimensions in mm (measurements acc. to EN 98)	Size -00	Size -10	Size -60	Size -67 ●	Size -68 ●
					
Tile type	Field	Field	Field	Edge strip	Edge strip
Colour	1100 Rustic yellow 1200 Rustic orange 1300 Rustic brown 8000 Ivory 8100 Light grey 8200 Medium grey	1110 Rustic yellow 1210 Rustic orange 1310 Rustic brown 2010 Rustic white 2110 Rustic red 2210 Rustic green 2310 Rustic grey 5110 Yellow 5210 Red-brown 5310 Blue-brown 7110 Grey ochre 7210 Grey pink 7310 Blue-grey 8010 Ivory 8110 Light grey 8210 Medium grey 8310 Graphite	1160 Rustic yellow 1260 Rustic orange 1360 Rustic brown (15 mm) 2060 Rustic white 2160 Rustic red 2260 Rustic green 2360 Rustic grey 5160 Yellow 5260 Red-brown 5360 Blue-brown 7160 Grey ochre 7260 Grey pink 7360 Blue-grey 8060 Ivory 8160 Light grey 8260 Medium grey 8360 Graphite	1167 Rustic yellow 1267 Rustic orange 1367 Rustic brown 5267 Red-brown 8067 Ivory 8167 Light grey 8267 Medium grey	1168 Rustic yellow 1268 Rustic orange 1368 Rustic brown 5268 Red-brown 8068 Ivory 8168 Light grey 8268 Medium grey
Tiles /m <sup>2</sup>	100	50	25	-	-
Tiles /m <sup>1</sup>	-	-	-	5	-
Kg/tile	0.21	0.43 0.48 (8310)	0.92 (Rustic) 1.20 (1360) 1.00 (Others) 1.05 (8360) 23.0 (Rustic) 30.0 (1360) 25.0 (Others) 26.2 (8360)	0.20	0.10
Kg/m <sup>2</sup>	21.0	21.5 24.0 (8310)	-	-	-
Kg/m <sup>1</sup>	-	-	-	1.00	-

Type, dimensions in mm (measurements acc. to EN 98)	Size -80	Size -82:1	Size -90
			
Tile type	Field	Round edge for stairs	Field
Colour	1180 Rustic yellow 1280 Rustic orange 1380 Rustic brown 2080 Rustic white 2180 Rustic red 2280 Rustic green 2380 Rustic grey 7180 Grey ochre 7280 Grey pink 7380 Blue-grey 8180 Light grey 8280 Medium grey	1182:1 Rustic yellow 1282:1 Rustic orange 1382:1 Rustic brown 2082:1 Rustic white 2182:1 Rustic red 2282:1 Rustic green 2382:1 Rustic grey 7182:1 Grey ochre 7282:1 Grey pink 7382:1 Blue-grey 8182:1 Light grey 8282:1 Medium grey	1190 Rustic yellow 1290 Rustic orange 1390 Rustic brown 7190 Gråockra 7290 Grårosa 7390 Gråblå 8190 Ljusgrå 8290 Mellangrå
Tiles/m <sup>2</sup>	11	-	-
Tiles/m <sup>1</sup>	-	3.3	3.3
Kg/tile	2.20	2.20	0.45
Kg/m <sup>2</sup>	24.2	-	-
Kg/m <sup>1</sup>	-	7.26	1.49

● Normally not in stock – Produced after order.

## Product range

Type, dimensions in mm (measurements acc. to EN 98)	Size -65	Size -15:4	Size -18:4	Size -38:4
				
Tile type	Bullnose	Cove skirting	Internal angle	External angle
Colour	1165 Rustic yellow 1265 Rustic orange 1365 Rustic brown 2065 Rustic white 2165 Rustic red 2265 Rustic green 2365 Rustic grey 5165 Yellow 5265 Red-brown 5365 Blue-brown 7165 Grey ochre 7265 Grey pink 7365 Blue-grey 8065 Ivory 8165 Light grey 8265 Medium grey 8365 Graphite	1115:4 Rustic yellow 1215:4 Rustic orange 1315:4 Rustic brown 2015:4 Rustic white 2115:4 Rustic red 2215:4 Rustic green 2315:4 Rustic grey 5115:4 Yellow 5215:4 Red-brown 5315:4 Blue-brown 7115:4 Grey ochre 7215:4 Grey pink 7315:4 Blue-grey 8015:4 Ivory 8115:4 Light grey 8215:4 Medium grey 8315:4 Graphite	1118:4 Rustic yellow 1218:4 Rustic orange 1318:4 Rustic brown 2018:4 Rustic white 2118:4 Rustic red 2218:4 Rustic green 2318:4 Rustic grey 5118:4 Yellow 5218:4 Red-brown 5318:4 Blue-brown 7118:4 Grey ochre 7218:4 Grey pink 7318:4 Blue-grey 8018:4 Ivory 8118:4 Light grey 8218:4 Medium grey 8318:4 Graphite	1138:4 Rustic yellow 1238:4 Rustic orange 1338:4 Rustic brown 2038:4 Rustic white 2138:4 Rustic red 2238:4 Rustic green 2338:4 Rustic grey 5138:4 Yellow 5238:4 Red-brown 5338:4 Blue-brown 7138:4 Grey ochre 7238:4 Grey pink 7338:4 Blue-grey 8038:4 Ivory 8138:4 Light grey 8238:4 Medium grey 8338:4 Graphite
Tiles/m <sup>2</sup>	5	5	-	-
Kg/tile	0.50	0.60	0.12	0.12
Kg/m <sup>2</sup>	0.55 (8365) 2.50	0.65 (8315:4) 3.00	-	-
	2.75 (8365)	3.25 (8315:4)		

## Technical data

	Series 11-, 12-, 13- and 21-	Series 51-, 53-, 71-, 72-, 73-, 80-, 81-, 82- and 83-	Series 20-, 22-, 23- and 52-
Density, DIN 51065	2200 kg/m <sup>3</sup>	2400 kg/m <sup>3</sup>	2300 kg/m <sup>3</sup>
Water absorption, EN 99	3.0–5.5%	0.1–0.5%	2.0–3.0%
Coefficient of thermal expansion (20–100°C), EN 103	6.5–7.0x10 <sup>-6</sup> K <sup>-1</sup>	6.5–7.0x10 <sup>-6</sup> K <sup>-1</sup>	6.5–7.0x10 <sup>-6</sup> K <sup>-1</sup>
Coeff. of friction, dry, acc. to Tortus	0.70	0.75	0.70–0.75
Transverse strength, EN 100	25–35 N/mm <sup>2</sup> (250–350 kp/cm <sup>2</sup> )	30–35 N/mm <sup>2</sup> (300–350 kp/cm <sup>2</sup> )	30–35 N/mm <sup>2</sup> (300–350 kp/cm <sup>2</sup> )
E-modulus, ASTM C 623-71	40–45 GPa (4.0–4.5x10 <sup>5</sup> kp/cm <sup>2</sup> )	70–75 GPa (7.0–7.5x10 <sup>5</sup> kp/cm <sup>2</sup> )	65–70 GPa (6.5–7.0x10 <sup>5</sup> kp/cm <sup>2</sup> )
Hardness, Moh's scale, EN 101	6–7	6–7	6–7
Abrasion dry, EN 102	350 mm <sup>3</sup> (series 11- and 12-) 250 mm <sup>3</sup> (series 13- and 21-)	95 mm <sup>3</sup>	140 mm <sup>3</sup>
(max. according to norm)	(400 mm <sup>3</sup> )	(300 mm <sup>3</sup> )	(300 mm <sup>3</sup> )

## Product description

### Raw materials, manufacture

“Höganäs” tiles are formed by extrusion. Rustic tiles are made from selected Swedish clays. The rustic tints are obtained naturally, without colour additives, giving tiles with a wide colour variation. The tiles are fired in a reducing atmosphere. Grog is added to generate a somewhat rough surface.

Yellow, red-brown and graphite tiles are made of clinker clays that take on these tints when fired, so that the colour is distributed naturally. Other “Höganäs” tiles are made of clays that become light in colour when fired and are densely sintered. Such tiles are coloured by adding appropriate clays and metal oxides. Grog is added to generate a somewhat rough surface.

### Grading and inspection

Only first-quality tiles within the following tolerances (according to EN 98/SS-EN 121, SS-EN 186-1) are approved for sale:

Length and width	±1.25%
Thickness	±10%
Straightness of sides	±0.5%
Rectangularity	±1.5%
Surface flatness	±0.5%

Colour grading complies with EN standards, which permit a degree of variation. Water absorption and other physical properties are checked regularly.

---

**Frost resistance**

Tiles in series 51-, 53-, 71-, 72-, 73-, 80-, 81-, 82- and 83- are resistant to frost.

Tiles in series 11-, 12-, 13-, 20-, 21-, 22-, 23- and 52- are resistant to frost on vertical surfaces, on condition that they are laid in accordance with our instructions. Tiles in series 11-, 12-, 13-, 20-, 21-, 22-, 23- och 52- are not resistant to frost when applied in cement mortar on unsheltered horizontal surfaces outdoors, e.g. on terraces. However, these tiles are resistant to frost when laid outdoors in sand.

**Recommendation for use**

“Höganäs” tiles can be used for both floors and walls. Typical flooring applications include entries, entrance halls, shops, restaurants, banks, churches and libraries. Tiles with water absorption of less 3% are especially appropriate as flooring in areas with high criteria for wear strength, cleanability and antiskid protection. Other suitable applications include certain types of industrial facilities, laundry rooms, boiler rooms and swimming baths. The rustic white 20-series and ivory 80-series are not recommended in areas constantly soiled.

“Höganäs” tiles can be used both indoors and outdoors, subject to the restrictions described for frost resistance.

