BRIGHT UNDULATING COLOURED AND GLAZED GLASS BLOCK

INDEX

1. CODE REGISTRY

Code	Description	Colour	(mm)	Weight	Pkg. / Pallet
VET02-5001	Bright undulating glass block	White	190 x 190 x 80	2,375 kg/pc.	10 pc. / 360 pcs.
VET02-5002	Bright undulating glass block	White	240 x 240 x 80	2,375 kg/pc.	5 pc. / 360 pcs.
VET02-5003	Bright right undulating glass block	White	190 x 90 x 80	1,400 kg/pc.	10 pc. / 360 pcs.
VET02-5011	Bright undulating glass block	White	190 x 190 x 80	2,400 kg/pc.	10 pc. / 360 pcs.
VET02-5017	Pink undulating glass block	Pink	190 x 190 x 80	2,100 kg/pc.	10 pc. / 360 pcs.
VET02-5026	Green undulating glass block	Green	190 x 190 x 80	2,100 kg/pc.	10 pc. / 360 pcs.
VET02-5016	Blue undulating glass block	Blue	190 x 190 x 80	2,100 kg/pc.	10 pc. / 360 pcs.
VET02-5017SA	Pink Satin undulating glass block	Pink	190 x 190 x 80	2,400 kg/pc.	10 pc. / 360 pcs.
VET02-5026SA	Green Satin undulating glass block	Green	190 x 190 x 80	2,400 kg/pc.	10 pc. / 360 pcs.
VET02-5016SA	Blue Satin undulating glass block	Blue	190 x 190 x 80	2,400 kg/pc.	10 pc. / 360 pcs.
VET02-5018SA	White Satin undulating glass block	White	190 x 190 x 80	2,400 kg/pc.	10 pc. / 360 pcs.

MATERIAL Made of cast glass, laminated and varnished laterally to increase the gloss.

Essential features	Performance	Technical specification
Fire resistant	A1	EN 13501-1
Fire resistance class	E 60	EN 13501-2 EN 1364-1
Penetration resistance	FB1 NS	EN 1063
Resistance to temperature differences	30 K	EN 1051-2
Mechanical strength (Compression force)	> 9 MPa	EN 1051-1
Soundproofing	37 dB	EN 717-1
Thermal insulation	3,0 $Wm^{-2}K^{-1}$	EN 673
Light transmission: **clean** **sandblasted (on 1 side)** **sandblasted (on 2 side)**	 80 % 70 % 61 %	EN 410
Light transmission: **clean** **sandblasted (on 1 side)*** **sandblasted (on 2 side)**	 79 % 72/76 % 69 %	EN 410

* First value i determine for radiation incidence onto non-sandblasted surface, second onto sandblasted one

INDOOR

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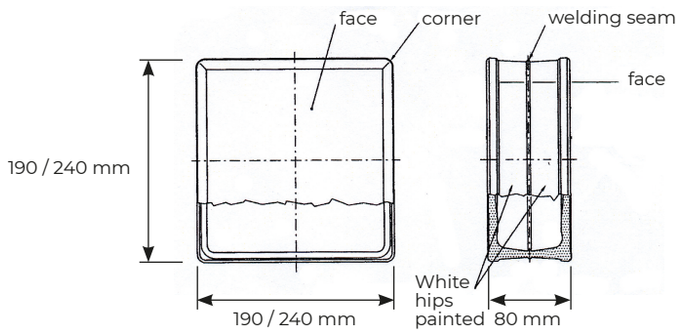
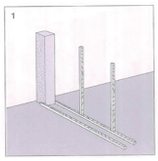


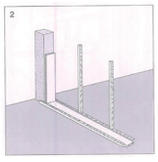
2. USE

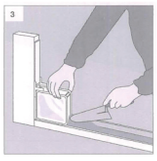
Used for a variety of architectural solutions also acting as a structural element of furniture.
It allows the passage of the light and/or singular chromatic effects in the environments.

Installation consists of three phases:
· Preliminary phase
· Installation phase
· Finishing phase
The walls must lean against and be anchored to rigid, appropriately sized supporting structures, these must be rimmed with rot-proof material that is thick, dense and hard enough to absorb structural expansion, settling and slipping.

PRELIMINARY PHASE





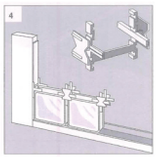


1. Make sure that the supporting structures are vertical and horizontal.
   Place two wooden strips horizontally on the surface where the wall will be built.
   The strips must follow the wall, and the distance between them must be equal to the thickness of the glass blocks you will be using.
   Arrange the vertical guides, they must be plumb, and 100/120 cm apart to assure that the wall itself will be perfectly plumb. The wall must be perfectly vertical both lengthwise and upwards in order to avoid eccentric loads.

2. Place a slip joint into the horizontal strips to prevent expansion/friction between the base of the panel and the supporting surface.
   Place the expansion/settling joints on the side and at the panel support points.

3. Use a trowel long enough to allow you to work easily between the vertical reinforcement bars.
   Apply cement mortar between the base strips, it must be at least 1,5 cm thick and proportionate to the height of the wall.
   Position the first row of glass blocks.

INSTALLATION PHASE



4. Build the first course perfectly level.
   Use the **plastic spacers** to make even joints.
   Apply mortar to the vertical spaces between the glass blocks you have just laid, temporarily remove the spacers as you work and then replace them.

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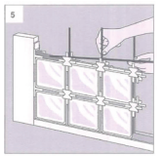
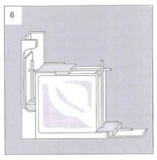
INSTALLATION PHASE

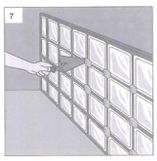


5. Place **the reinforcing rod** on the central wing of the spacer to prevent it to touch the glass block side.
Apply the mortar without touching the spacer.
Make sure that each glass block is surrounded by well compacted and evenly distributed mortar on all sides and that the bearing structures do not touch them.
Insert the **reinforcement bars**, vertically and horizontally; the bars should not be more than 50 cm apart.
Use a piece of wood to remove excess mortar from the joints before it hardens; this is in preparation for the finishing phase.
Wipe the glass blocks with a wet sponge to remove any mortar residue.
If the wall reaches to the ceiling, position the expansion/settling joint the same way you did on the sides.



6. To guarantee stability for small and medium size walls, fix them to the adjacent supporting structures with the horizontal reinforcement bars inserted in the structures themselves.
The diameter of the holes should be slightly bigger than that of the bars over a sufficient length so they also pass through the expansion/settling joint and they not tilt.
For large walls it is better to use U-sections, which are plugged or cramped to the adjacent supporting structures.
To prevent the metal from touching the glass, position the first row of glass blocks at least 10 mm from the wings of the section. When using U-sections, place the expansion/settling joint inside them.

FINISHING PHASE



7. Finish the joints only when the mortar is completely hardened.
Remove the outer plates of the spacer using a tool that will not scratch the glass..

8. Apply the finishing, fill the joints well; use soft brushes and plastering trowels.
Make a perimeter cordon, or part of the outside joint, using elastic sealant to prevent cracking along the expansion/settling joints.
If the walls are to be exposed to water, use a transparent protective paint along the joints to enhance their water-proof features.

3. TECHNICAL SPECIFICATION

Specification	Description	Unity	Price
Dak.I.VET02.50xx	Supply and installation of glass brick produced according to high quality standards that ensures the maintenance of the characteristics (transparency, brightness, colour) over time. Available in various sizes and colours (see table) and with different textures depending on whether or corrugated steel. Made of cast glass, laminated and varnished laterally to increase the gloss. Used for a variety of architectural solutions also acting as a structural element of furniture. It allows the passage of the light and/or singular chromatic effects in the environments.		
Dak.I.VET02.5001	Dimension 190 x 190 x 80 mm	pc.	-
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Dak.I.VET02.5003	Dimension 190 x 90 x 80 mm	pc.	-
Dak.I.VET02.5011	Dimension 190 x 190 x 80 mm	pc.	-
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