

COSENTINO®

Types of Fixing

DKB



DEKTON®

Subframe and Fixing Systems

Index of fixing system



DKT1
Hidden mechanical fixing using undercut screws on the reverse side of the piece.



DKT2
Hidden mechanical fixing with metallic profile on the continuous groove on the edge of the piece.



DKT3
Hidden mechanical fixing with clips at intervals along the groove on the edge of the piece.



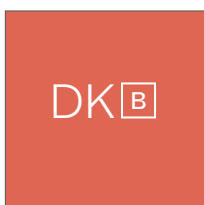
DKT4
Mechanical fixing using visible clips to hold the pieces.



DKBG
Mixed fixing (mechanical plus chemical) hidden in the groove on the reverse side of the piece



DKC
Chemical structural fixing of pieces onto profiles.



DKB
Pieces are fixed directly to supporting wall using mainly cement based adhesives.



DKS
Fixing of pieces onto an external thermal insulation system (ETIS)



DK B

Direct Adhesion

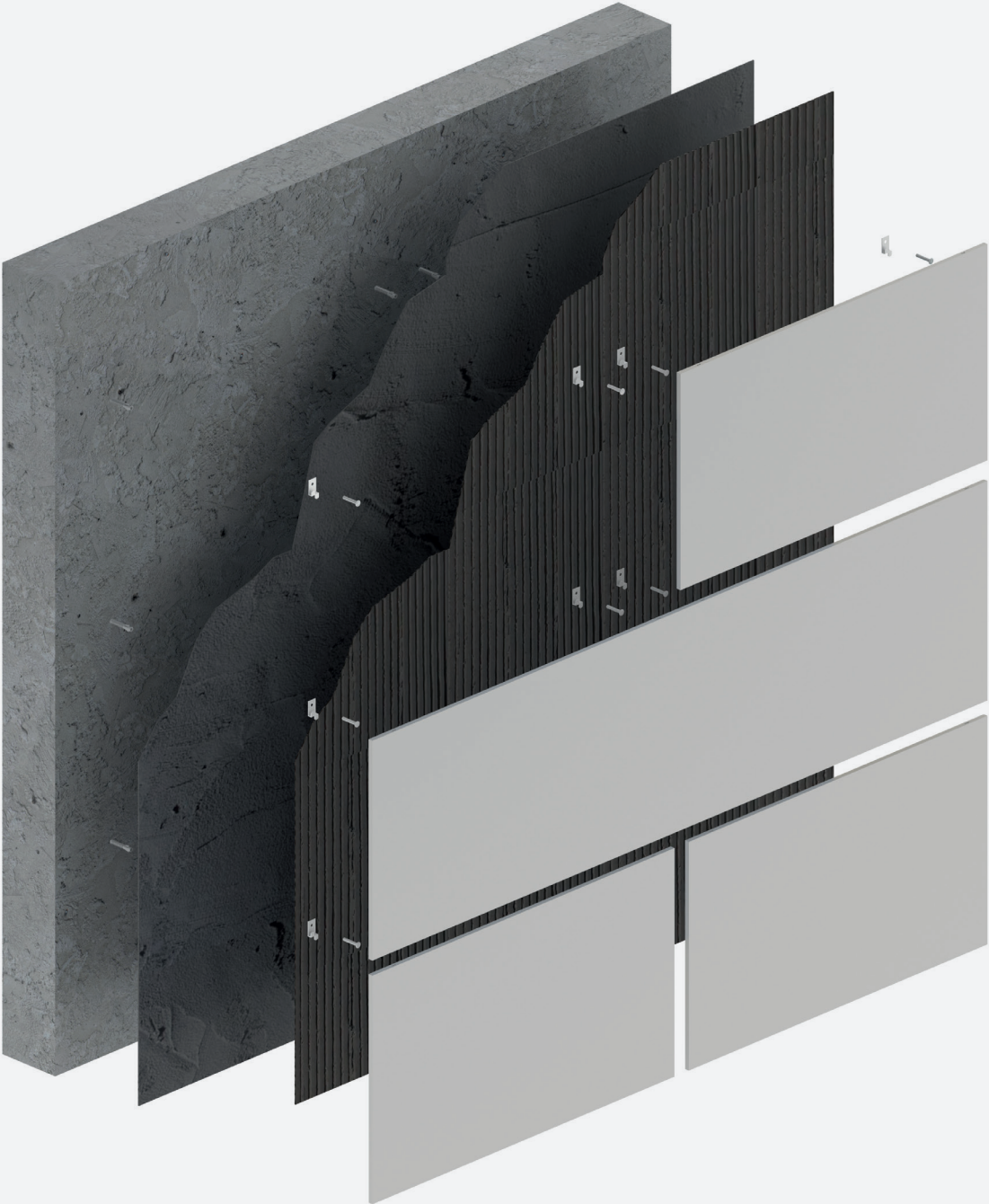
The DKB system is a glued facade system, without format limitations and where 8mm thickness is commonly used. Each piece is applied directly to the cladding, thanks to a layer of improved cement based adhesive applied according to the technique of double gluing on the support and back of the piece, leaving horizontal

and vertical joints of at least 3mm. Generally, the use of hidden security clips is always recommended (and is compulsory in some places according to local standards), slotting the edge of the piece or making a regular groove on the back, and always following the local regulations applicable to each project.

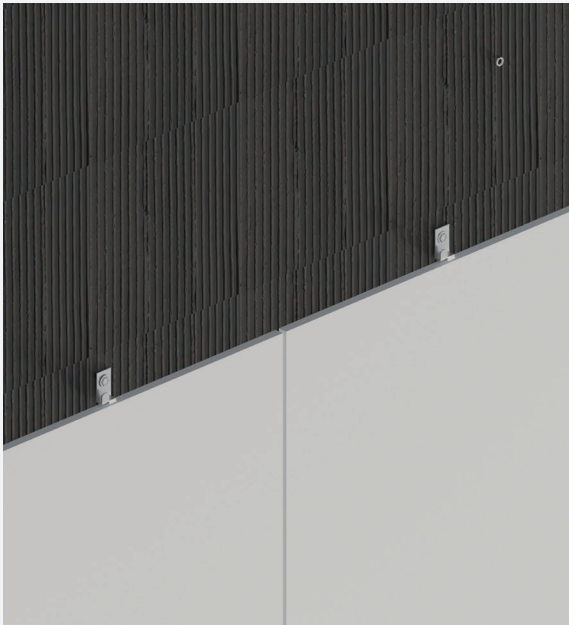


Chemical fixation
adhered directly
on the supporting wall.





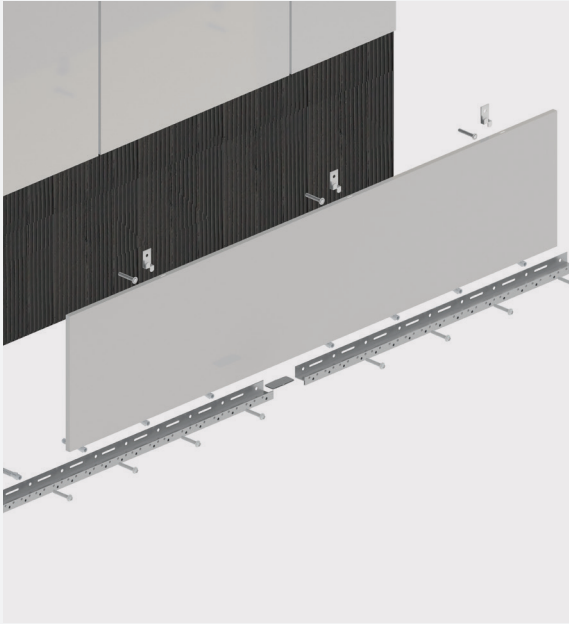
Joint



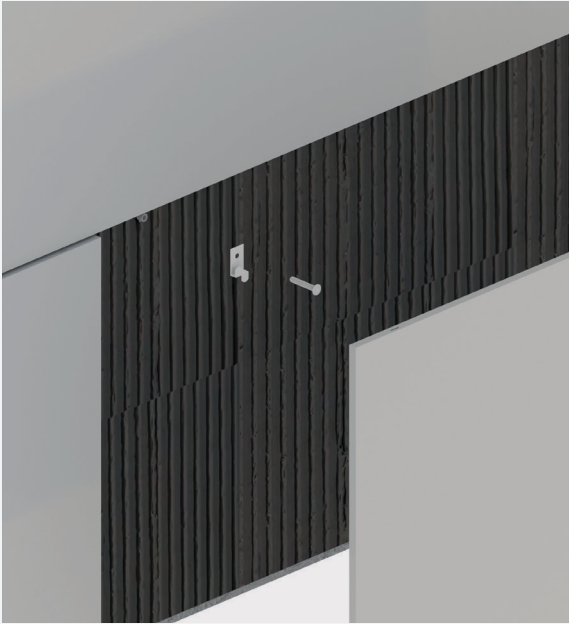
Detail of system layers



Bottom

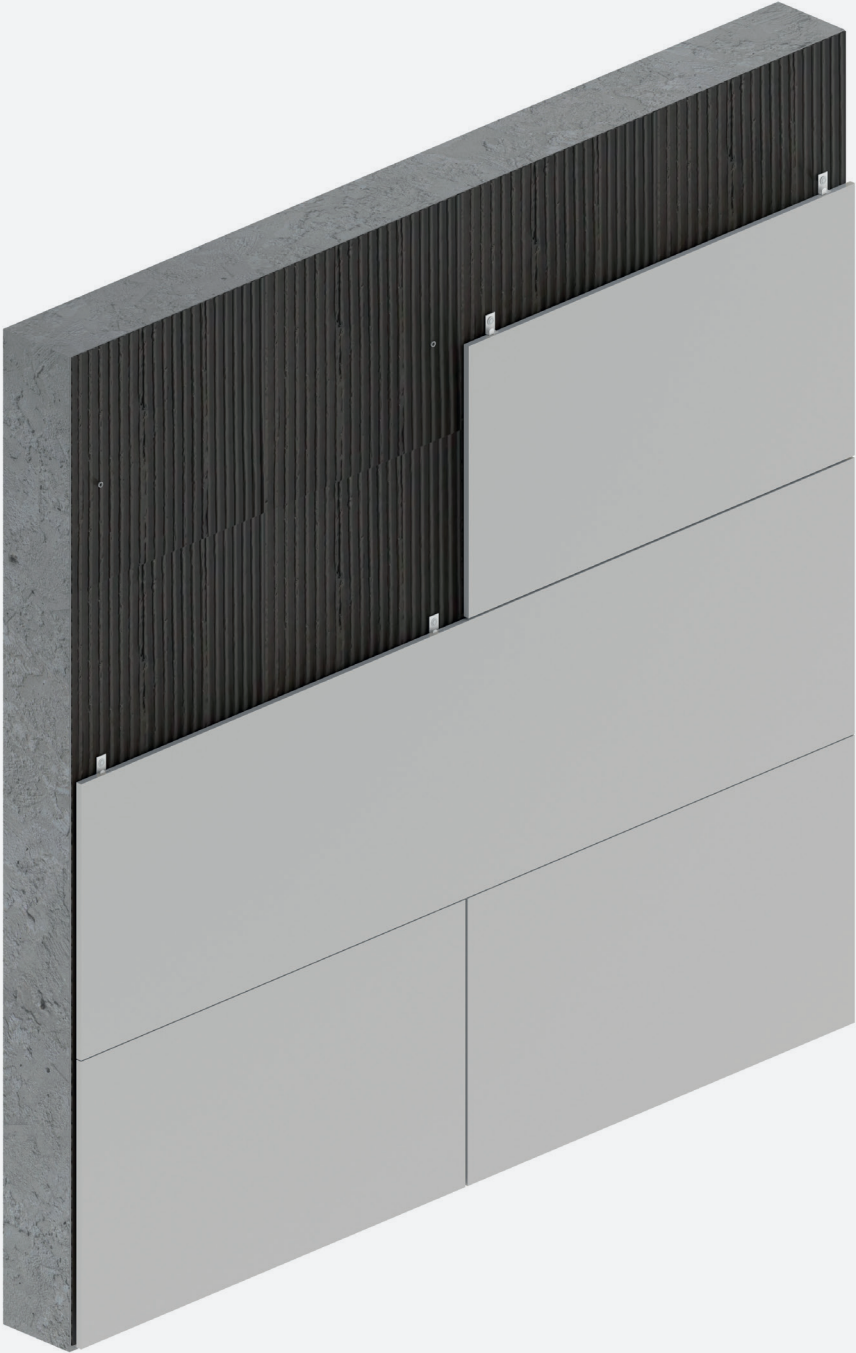


System detail



DKB Structure

DKB - Structure



General fixing instructions

1. Clean, prepare and level the supporting wall.
2. Apply the adhesive to both the supporting wall and the Dekton® pieces with toothed trowel.
3. Place the Dekton® pieces.
4. Meeting of the placement joints.
5. Fill the joints with grout.
6. Removal and cleaning of excess material.
7. Final cleaning of the facade.

Fig. 1



Fig. 2

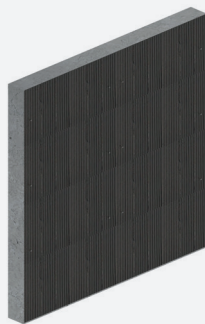


Fig. 3

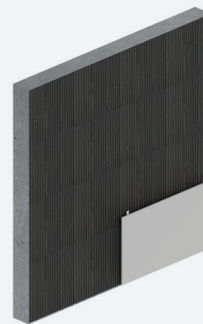


Fig. 4

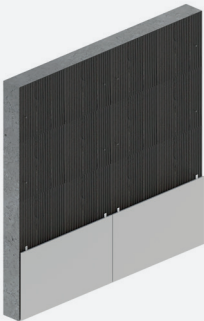


Fig. 5

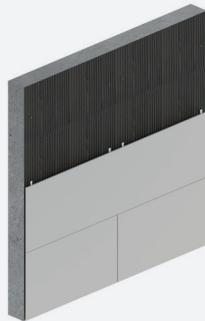


Fig. 6

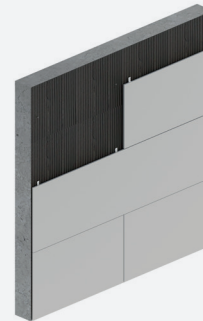


Fig. 7

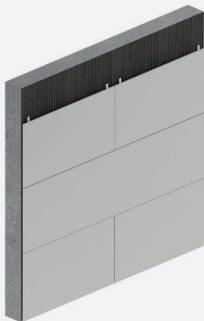
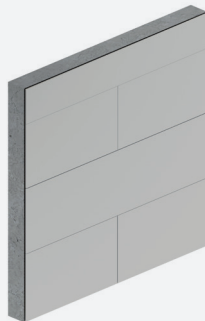


Fig. 8



DKB System Description

Dekton® ultra-compact surface by COSENTINO, colour to be defined by the Project Management*, mineral composition, thickness 4, 8 or 12 mm. The surface is made up of 25,000 tons of pressed material (>450 kg/cm) and sintered at a temperature of around 1,200 °C, with a useful size of 3200 x 1440 mm and a smooth back (slightly textured, without ribs). Reaction to fire Class A1 [according to EN 13501], unaffected by UV radiation [ΔE < 1 tested in a Xenon chamber at 5000h], with thermal conductivity < 0.5 W/m- °C [according to EN12664], specific heat < 700 J/Kg- °C [measured with DSC], surface resistivity < 65 TΩ/m [at 1000

V] and must have these mechanical-functional characteristics according to EN 10545: Bending strength > 45 N/mm. Density > 2,500 Kg/m3. Porosity < 0.05 %. Linear expansion < 10-6 °C-1. Can be used in outdoor environments, even aggressive ones (petrol, diesel, various solvents) and cleaned with water or other pressurised products, using commercial cleaning products or specific chemical agents (e.g. sulphuric acid, bleach, hydrogen peroxide, acetone, caustic soda) in the case of persistent stains. Applied as a cladding for facades, mixed with cement based adhesive in a thin layer with double gluing and mechanical safety fixings to the substrate. Type

C2TES2 adhesive for Dekton® without mesh and type R2 adhesive (according to UNE EN 12004) for Dekton® with mesh, with improved adhesion, reduced slip, extended open time and very formable. 3-5 mm wide placement joints, grouted with cement mortar with high resistance to abrasion and reduced absorption type CG2AW (according to UNE EN 13888). Expansion joints every 16 m² or 4 linear metres, perimeter joints and expansion joints following structural expansion joints of the building. Upper end of the façade with a special piece for water drips, with the façade meeting resolved with a perimeter joint.

Size, thickness and finishes

Full slab format	320 x 144 cm
Thickness (cm)	0.4 ⁽¹⁾ – 0.8 – 1.2
Finishes	Smooth, Textured or Polished

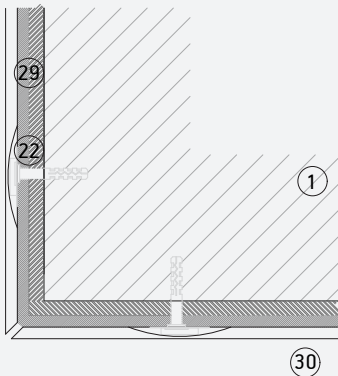
(1) The 4mm. thickness incorporates 300 g/m² glass fibre mesh with epoxy resin and is called Dekton® Protek.

Recommended size of slabs in this system to minimize waste

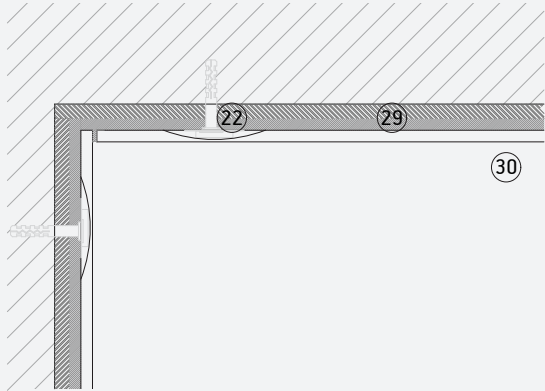
Formats (cm)	Formats (inches)	Nº of pieces
71 x 71	28” x 28”	8
71 x 106	28” x 42”	6
71 x 142	28” x 56”	4
71 x 159	28” x 63”	4
71 x 320	28” x 126”	2
106 x 142	42” x 56”	3
142 x 142	56” x 56”	2
142 x 159	56” x 63”	2

DKB Horizontal section

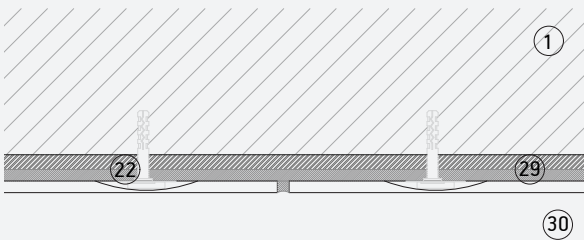
External corner bevelled



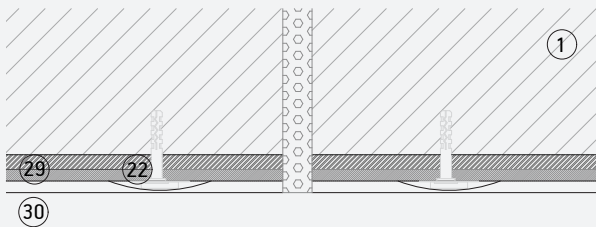
Internal Corner



Vertical joint



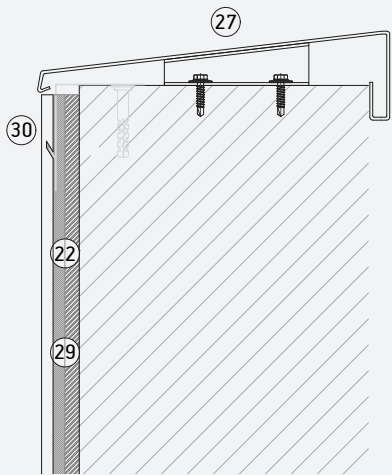
Vertical expansion joint



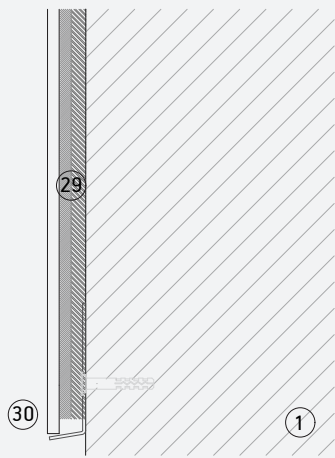
- | | | | |
|------------------------|-------------------------------------|--------------------------------|----------------------|
| 1. Supporting wall. | 10. Rivet. | 17. Bottom/top visible clip. | 26. Window sill |
| 2. Anchor bracket. | 11. Undercut anchor. | 18. Intermediate visible clip. | 27. Top coping |
| 3. Insulation. | 12. Horizontal rail. | 19. Interior back clip | 28. Corner profile |
| 4. Insulating layer. | 13. C hanger. | 20. Exterior back profile | 29. Bonding adhesive |
| 5. Fixed bracket. | 14. Adjustable C hanger. | 21. Chemical fixing system | 30. Dekton |
| 6. Adjustable bracket. | 15. Bottom/top edge profile/clip. | 22. Security fixing | |
| 7. L profile. | 16. Intermediate edge profile/clip. | 23. Ventilation profile | |
| 8. T profile. | | 24. Lintel | |
| 9. Self tapping screw. | | 25. Jamb | |

DKB Vertical section

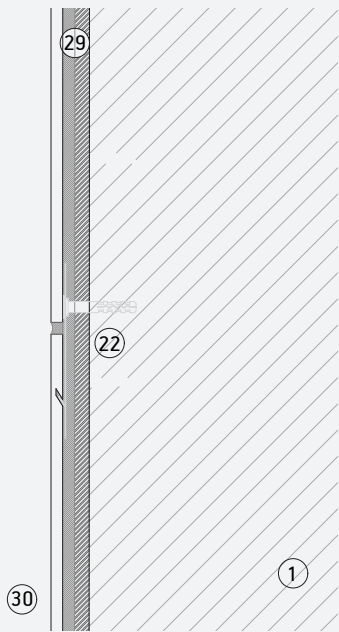
Upper detail



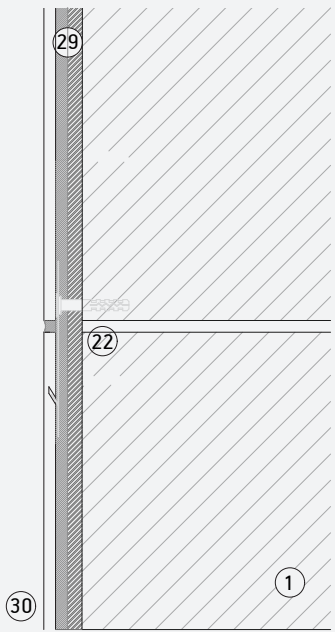
Bottom detail



Horizontal joint



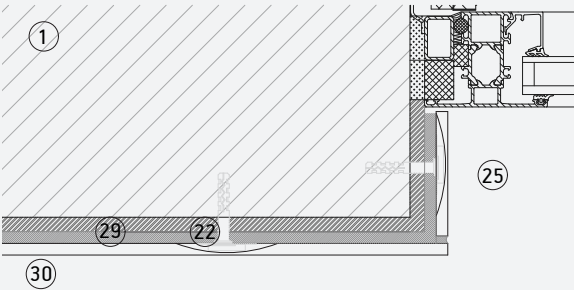
Horizontal profiles joint



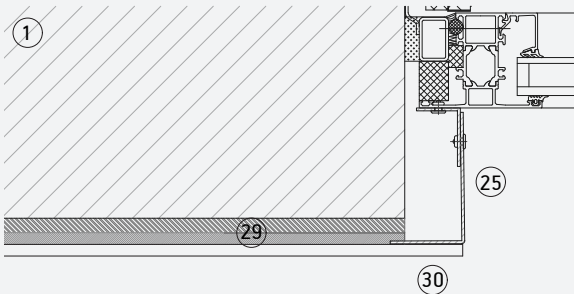
- 1. Supporting wall.
- 2. Anchor bracket.
- 3. Insulation.
- 4. Insulating layer.
- 5. Fixed bracket.
- 6. Adjustable bracket.
- 7. L profile.
- 8. T profile.
- 9. Self tapping screw.
- 10. Rivet.
- 11. Undercut anchor.
- 12. Horizontal rail.
- 13. C hanger.
- 14. Adjustable C hanger.
- 15. Bottom/top edge profile/clip.
- 16. Intermediate edge profile/clip.
- 17. Bottom/top visible clip.
- 18. Intermediate visible clip.
- 19. Interior back clip
- 20. Exterior back profile
- 21. Chemical fixing system
- 22. Security fixing
- 23. Ventilation profile
- 24. Lintel
- 25. Jamb
- 26. Window sill
- 27. Top coping
- 28. Corner profile
- 29. Bonding adhesive
- 30. Dekton

DKB Vertical section

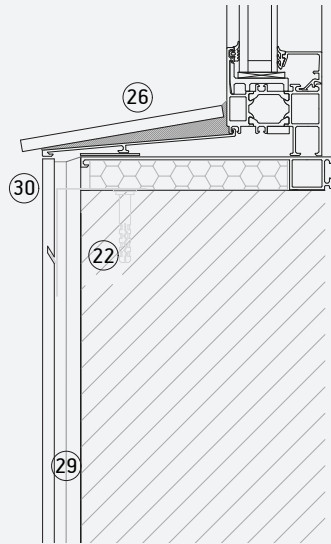
Dekton jamb



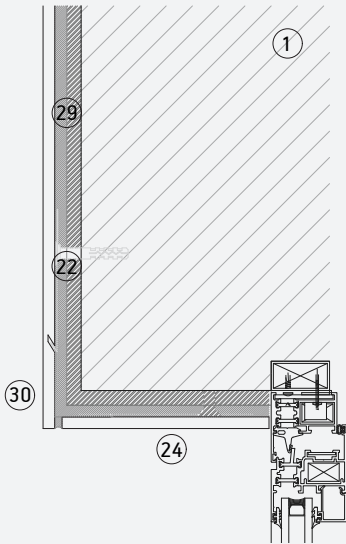
Metallic jamb



Dekton window sill



Dekton lintel



- | | | | |
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* To obtain more information about colours with an NSF certificate please visit www.nsf.org

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