



Approval body for construction products and types of construction

**Bautechnisches Prüfamt** 

An institution established by the Federal and Laender Governments



# **European Technical Assessment**

ETA-18/0388 of 1 April 2020

English translation prepared by DIBt - Original version in German language

#### **General Part**

Technical Assessment Body issuing the European Technical Assessment:

Trade name of the construction product

Product family to which the construction product belongs

Manufacturer

Manufacturing plant

This European Technical Assessment contains

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of

Deutsches Institut für Bautechnik

Corian facade panel

Corian kit for ventilated facades

DuPont de Nemours (Belgium) BVBA Antoon Spinoystraat 6 2800 MECHELEN BELGIEN

Werk 1 Plant 1

20 pages including 15 annexes which form an integral part of this assessment

EAD 090062-00-0404



### European Technical Assessment ETA-18/0388 English translation prepared by DIBt

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## European Technical Assessment ETA-18/0388

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#### **Specific Part**

#### 1 Technical description of the product

Corian Façade kit for ventilated external wall claddings complies with the family B of EAD 090062-00-0404. The cladding kit consist of a white acrylic-based (Polymethylmethacrylat PMMA) cladding elements (façade panel) mechanically fastened to the subframe by a specific anchor placed in an undercut hole and anchored by mechanical interlock (at least 4 anchors) as listed in section 2 of this document.

The "Corian façade panel" is a solid surface made acrylic resin and two-third of natural mineral aluminium hydroxide with white colour and a thickness of 12 mm.

The product description is given in Annex A.

Corian Façade kit for ventilated external wall claddings consists of:

- Cladding element: Corian façade panel "Corian EC Glacier White", white, max. standard formats of acrylic-based cladding elements 1500 x 3658 x 12 mm (smaller tiles may be used),
- Cladding fixing: stainless steel KEIL undercut anchor KH 7,0 according ETA 13/0377.

The KEIL undercut anchor is a special anchor made of stainless steel, consisting of a crosswise slotted anchor sleeve with an M6 internal thread, at the upper edge of which a hexagon is formed to it and a respective hexagon bolt with an integrated tooth lock washer.

Detailed information and data of all the components are given in the annexes of this ETA and in the associated test reports to this ETA.

The subframe, brackets and other fixings between brackets and substrae are not part of the kit assessed in this ETA.

## 2 Specification of the intended use in accordance with the applicable European Assessment Document

Corian Façade kit is intended to be used as external wall claddings in ventilated façades (rainscreens). The walls are made of masonry (clay, concrete or stone), concrete (cast on site or as prefabricated panels), timber or metal frame in new or existing buildings (retrofit).

The performances given in Section 3 are only valid if the anchor is used in compliance with the specifications and conditions given in Annex B.

The provisions made in this European Technical Assessment are based on an assumed working life of at least 25 years for Corian Façade kit. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.



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## 3 Performance of the product and references to the methods used for its assessment

#### 3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire (façade panel)	No performance assessed
Façade fire performance	No performance assessed
Propensity to undergo continuous smouldering	No performance assessed

Note: A European reference fire scenario has not been laid down for façades. In some Member States, the classification of external wall claddings according to EN 13501-1 might not be sufficient for the use in façades. An additional assessment of external wall claddings according to national provisions (e.g. on the basis of a large-scale test) might be necessary to comply with Member State regulations, until the existing European classification system has been completed.

### 3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Watertightness of joints	No performance assessed
Water absorbation	Not relevant
Water vapour permeability	Not relevant
Drainability	No performance assessed
Content, emissson and/or release of dangerous substances	No performance assessed

#### 3.3 Safety and accessibility in use (BWR 4)

Essential characteristic		Performance	
Wind load resistance (for the assembled kit)		See Annex C 3 / C 4	
Resistance to horizontal points load		No performance assessed	
Impact resistance		No performance assessed	
Mechanical	Cladding element	See Annex C 1	
resistance Family B	Connection between the cladding element and its fixing	See Annex C 1	

### 3.4 Protection against noise (BWR 5)

Essential characteristic	Performance
Airborne sound insulation	Not relevant

#### 3.5 Energy economy and heat retention (BWR 6)

Essential characteristic	Performance
Thermal resistance	Not relevant



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### 3.6 Aspects of durability and serviceability

Essential characteristic	Performance
Hygrothermal behaviour	No performance assessed
Behaviour after pulsating load	No performance assessed
Freeze-thaw resistance	See Annex C 2
Behaviour after immersion in water	No performance assessed
Dimensional stability	No performance assessed
Chemical and biological resistance	No performance assessed
UV radiation resistance	See Annex C 2
Corrosion	No performance assessed
Accelerated ageing behaviour of kits when the cladding element is made of thin metallic composite panels (TMCP)	Not relevant

## 4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

In accordance with EAD 090062-00-0404, July 2018 the applicable European legal act is: [2003/640/EC].

System of attestation of conformity applicable to cladding kit is: 2+ for any use except for uses subject to regulations on reaction to fire.

For uses subject to regulations on reaction to fire the applicable AVCP systems regarding reaction to fire are 1, or 3, or 4 depending on the conditions defined in the said Decision.

## 5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

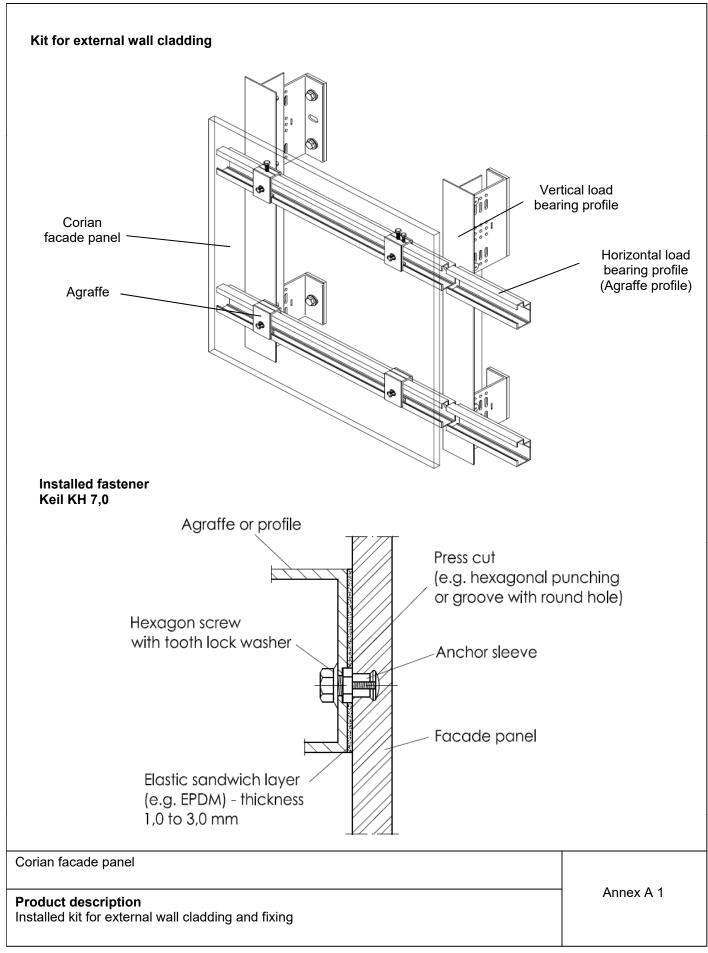
Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 1 April 2020 by Deutsches Institut für Bautechnik

BD Dipl.-Ing. Andreas Kummerow beglaubigt:
Head of Department Beckmann

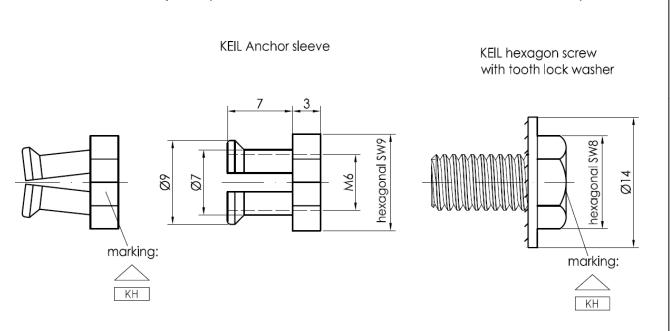
Including propensity to undergo continuous shouldering, where relevant.







## fastener for Corian facade panel (KEIL KH 7,0 and Flat-head screw with coiled washer)



## **Corian Facade panel** (dimension in mm)

Table A2: Dimensions, materials and physical properties

Corian Facade panel type			Corian EC Glacier White	
thickness	t =	[mm]	12*	
lengths	=	[mm]	1500*	
width	w=	[mm]	3658*	
colour identification			Clacier white	
bulk density	ρ=	[KN/m³]	17,5	
thermal coefficient <sup>3)</sup>	α <sub>T</sub> =	[1/K]	30,4 x 10 <sup>-6</sup>	
Mean value of modulus of elasticity	E <sub>mean</sub> ≥	[N/mm²]	8500	
bending resistance (acc. EN ISO 178:2013-09)	<b>σ</b> u5% <sup>1)</sup> ≥	[N/mm²]	61	
bending resistance (acc. EN ISO 178:2013-09)	$\sigma_{B,min}^{2)} =$	[N/mm²]	60	

<sup>\*</sup> width and lengths tolerances +0,5 mm; thickness tolerances ± 0,3 mm

<sup>3)</sup> According to the information of the manufacture

Corian facade panel	
Product description	Annex A 2
Hanex Façade panel - dimensions, materials and physical properties	
,	

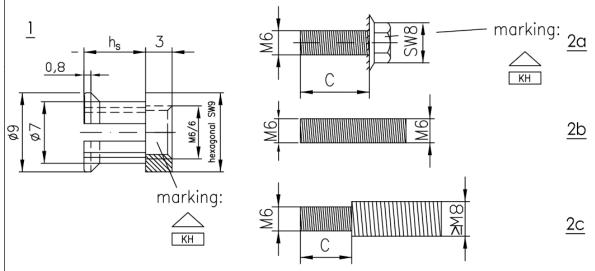
<sup>&</sup>lt;sup>1)</sup> 5%-Quantil by a confidence level of 75 % and unknown standard deviation

<sup>&</sup>lt;sup>2)</sup> the minimum single value of the façade panel



## Cladding fixings:

## Fastener (dimension in mm)



c: The screw must be adjusted to the respective design

**Table A3: Dimensions and Materials** 

Fastener type		KEIL KH 7,0			
embed	dment depth	hs =	[mm]	7,0	
screw	length	c =	[mm]	h <sub>s</sub> + 3mm + t <sub>fix</sub>	
install	ation torque moment	T <sub>inst</sub>	[Nm]	$2.5 \leq T_{inst} \leq 4.0$	
Materials					
1	anchor sleeve			Stainless steel 1.4404 according to EN 10088:2014	
2a	hexagon screw with tooth lock washer				
2b threaded pin			stainless steel 1.4401, 1.4404 or 1.4578 according to EN 10088:2014		
2c	threaded bolt			g seemen	

Corian facade panel	
Product description KEIL KH 7,0 - dimensions and materials	Annex A 3



## Specifications of intended use

#### Scope

According the EAD 090062-00-0404 / Cladding family B

### Anchorages subject to:

Static and quasi-static loads

#### Design

The design of the external wall claddings for ventilated façades using Corian Façade kit comprising "Corian façade panels Typ Corian EC Glacier White" and the associated fixings should take into account:

- It is assumed that the substrate wall meets the necessary requirements regarding the mechanical strength (resistance to static and dynamic loads) and the airtightness, as well as the relevant resistance regarding watertightness and water vapour.
- The verification of the designed system by means of calculation, taking into account the mechanical characteristic values of the kit components in order to resist the actions (dead loads, wind loads, etc.) applying on the specific works. National safety factors and other national provisions must be followed.
- The design of the façade panels and their fixing can be carried out according to the conditions given in Annex B 2 to Annex B 4, the national regulations must be considered.
- The selection and verification of the brackets which support the subframe vertical profiles considering compatible materials (e.g. aluminium alloy) and the mechanical resistance (vertical and horizontal resistance) according to the envisaged actions obtained from the mechanical calculation of the designed system.
- The selection and verification of the anchors between the brackets and the external walls (substrate), taking into account the substrate material and the minimum resistance required (pull-out and shear resistance) according to the envisaged actions obtained from the mechanical calculation of the designed system.
- The accommodation of the designed system movements to the substrate or structural movements.
- The execution of singular parts of the façade; some examples of construction details are indicated in Annex A1.
- The corrosion protection of the designed system metallic components taking into account the category of corrosivity of the atmosphere of works (e.g. acc. ISO 9223).
- The drainability of the ventilated air space between the cladding elements and the insulation layer or the external wall accordingly.
- An insulation layer is usually fixed on the external wall and should be defined in accordance with a harmonized standard or an European technical assessment.
- Because the joints are not watertight, the first layer behind ventilated air space (e.g. insulation layer) should be composed by materials with low water absorption.

Corian facade panel	
	A D. 4
Intended use	Annex B 1
Specifications – scope and design	



#### Installation of the kits in works

Installation should be carried out according to the ETA holder's specifications and using the specific kit components.

Installation should be carried out by appropriately qualified staff and under the supervision of the technical responsible of the site.

- The drillings are done at the factory or on site under workshop conditions; when making the drillings on site the execution is supervised by the responsible project supervisor or a skilled representative of the project supervisor.
- Making of the undercut drilling is done with the drill bit according to Annex B 6 and a special drilling device in accordance with the information deposited with Deutsches Institut für Bautechnik.
- The drillings are removed from the drill hole.
- In case of aborted hole: new drilling at a minimum distance away of twice the depth of the aborted hole.
- The geometry of the drill hole is checked on 1 % of all drillings. The following dimensions shall be checked and documented according to manufacturer's information and testing instructions by means of a measuring device according to Annex B 6:
  - Volume of the undercut drill hole.
  - Depth position of the undercut; the distance between the lower edge of the measuring device and the façade panel is between 0,0 and 0,3 mm (see Annex B 6).

If the tolerances are exceeded, the geometry of the drill hole shall be checked on 25% of the drillings performed. No further drill hole may exceed the tolerances otherwise all the drill holes shall be controlled. Drilling holes falling below or exceeding the tolerances shall be rejected.

Note: Checking the geometry of the drill hole on 1 % of all drillings means that on one of the 25 panels (this corresponds to 100 drillings in façade panels with four anchors) one drilling shall be checked. If the tolerances given in Annex A 3, Table A3 are exceeded the extent of the control shall be increase to 25 % of the drillings, i.e. one drilling each shall be checked on all the 25 panels.

- During transport and storage on site the façade panels are protected from damages; the façade panels are not be hung up jerkily (if need be lifters shall be used for hanging up the façade panels); façade panels and reveal panels respectively with incipient cracks are not be installed.
- The façade are installed by skilled specialists and the laying instructions of the manufacturer shall be paid attention to.
- The façade panels are arranged in a "reclined" or "upright" position, they also may be fixed at façade soffits.
- The profiles or agraffes must be fixed as defined and set out in this document (see Annex A/B).

#### Use, maintenance and repair of the works

Maintenance of the assembled systems or kits components includes inspections on site, taking into account the following aspects:

- regarding the Corian façade panel: appearance of any damage such as cracking or detachment
- regarding the fasteners (fixing): presence of corrosion or deformation

Necessary repairs should be done rapidly, using the same kit components and following the repair instructions given by producer of the products.

Corian facade panel	
Intended use	Annex B 2
Specifications – installation and use	



### **Design method**

#### General

The design values of the actions shall be calculated on basis of EN 1990 in consideration of the existing loads. The combinations of actions shall be equal to EN 1990. The actions shall be specified according to EN 1991-1-1 to EN 1991-1-7. Corresponding national regulations shall be taken into consideration. The unfavourable combination is decisive. Where necessary for the design of the anchor and the façade panel several combinations shall be analysed separately.

The typical fundamental combination for façade panels considers actions from dead load F<sub>Ek.G</sub> (permanent action) and wind F<sub>Ek.W</sub> (leading variable action).

According to EN 1990 the following fundamental combination depending on the load direction results for a vertical facade panel:

Fundamental combination for loads parallel to the panel:  $F_{Ed ||} = F_{Ek,G} \cdot \gamma_G$ Fundamental combination for loads perpendicular to the panel:  $F_{Ed \perp} = F_{Ek,w} \cdot \gamma_Q$ 

with  $\gamma_G = 1,35$ ;  $\gamma_Q = 1,50$ 

For hanging panels (over head mounting) or reveals respectively the load direction shall be taken into consideration and the combinations of actions shall be based on EN 1990.

The calculation shall be carried out in a linear elastic manner. The stiffness of the substructure shall be considered for the respective case of application.

- Each façade panel is fixed with at least four anchors in a rectangular arrangement via single agraffes or double agraffes on the substructure (for small panels or small fitted pieces, differential or fill- in pieces the number and position of the anchors shall be chosen constructively).
- The substructure is constructed such that the façade panels are fixed technically strain-free via skids (loose bearings) and one fixed point (fixed bearing) the fixed point may be placed at the panel edge or in the panel field.
- Two fixing points of the façade panel are designed such that they are able to carry the dead load of the façade panel.
- When using agraffes on horizontal load-bearing profiles the fixing points of a façade panel situated horizontally at the same height are fastened in each case to the same load-bearing profile.
- Joint construction between the façade panels is done by a joint filler or are kept open; it is ensured that additional stresses (e.g. by temperature) do not lead to important additional loadings (see also classification of the reaction to fire for the façade panel in Annex B1).
- Verifiable calculation notes and drawings shall be prepared taking account of the loads to be anchored, the nature and strength of the base materials and the dimensions of the anchorage members as well as of the relevant tolerances. The position of the anchor is indicated on the design drawings.
- The façade panels, their fixings as well as the substructure including its connection to wall brackets and their connection to the construction works are designed for the respective case of application under the responsibility of an engineer skilled in the field of façade construction.
- In the structural analysis, the cross-sectional reduction of the façade panel caused by the anchor drill holes must be taken into account.
- In absence of other national regulations the following design values with  $y_M = 2.0$  (see Annex B4) for the resistance against wind load and dead load may be considered for the kit.

Verification of the anchor loads

Corian facade panel

Intended use
Specifications – installation and use

Annex B 3



In addition to the actions from dead load and wind load the following actions shall be considered as permanent loads in direction to the anchor axes:

• in case of flush fixing of the anchor and when using horizontal load-bearing profiles: due to torsion of the load-bearing profile resulting from dead load of the façade panel the following load N<sub>Ek.V</sub> shall be considered:

$$N_{V,Ek.} = V_{Ek} \cdot e/z$$

with V<sub>Ek</sub> = shear load due to dead load of the façade panel; e and z [mm] (see Figure 2)

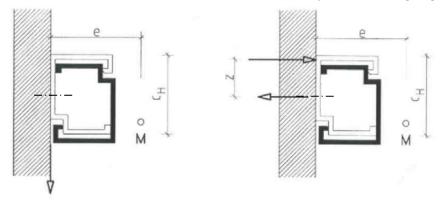


Figure 2: torsion of horizontal load-bearing profiles resulting from dead load of the façade panels

For the determined anchor forces it shall be verified that the following equation are met:

Equation 1:  $\frac{\Sigma N_{Ed}}{N_{Ed}} \le 1$ 

Equation 2:  $\frac{V_{Ed}}{V_{ext}} \le 1$ 

Equation 3:  $\frac{\Sigma N_{Ed}}{N_{Rd}} + \frac{V_{Ed}}{V_{Rd}} \le 1,0$ 

With:

 $\Sigma N_{\text{Ed}}$  = design value of existing anchor tension load

 $\Sigma N_{Ed} = N_{Ed} + N_{V,Ed}$ 

V<sub>Ed</sub> = design value of existing anchor shear load

 $N_{Rd}$  = design value of anchor load-bearing capacity for tension load:  $N_{Rd} = N_{Rk} / \gamma_M$  (with  $N_{Rk}$  to Annex C 1and  $\gamma_M = 2,0^*$ )

 $V_{Rd}$  = design value of anchor load-bearing capacity for shear load:  $V_{Rd} = V_{Rk} / \gamma_M$  (with  $V_{Rk}$  to Annex C 1and  $\gamma_M = 2,0^*$ )

### Verification of the bending stresses

For the determined bending stresses it shall be verified, that the following equation is met:

Equation 4:  $\sigma_{Ed} \leq \sigma_{Rd}$ 

With

 $\sigma_{Ed}$  = design value of existing bending stress in the façade panel

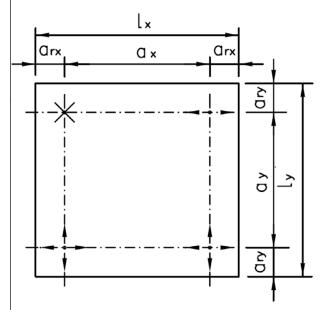
 $\sigma_{Rd}$  = design value of bending strength:  $\sigma_{Rd} = \sigma_{Rk} / \gamma_{M}$  with  $\sigma_{Rk}$ ;  $\gamma_{Mm} = 2.0^*$ 

\* In absence of other national regulations (recommendation)

Corian facade panel	
Intended use Specifications – installation and use	Annex B 4



## Definition of edge distance and spacing



### Legend:

 $a_{rx,y}$  = edge distance – distance of an anchor to the panel edge

 $a_{x,y}$  = spacing – distance between anchors  $L_x$  = greater length of the façade panel  $L_y$  = smaller length of the façade panel

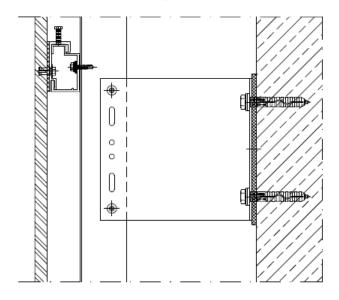
= fixed point (fixed bearing)

→ = horizontal skid (loose bearing)

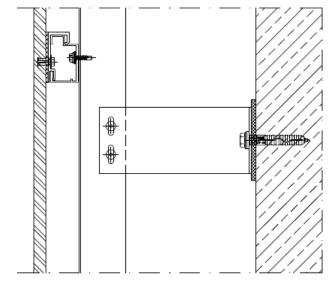
= horizontal and vertical skid (loose bearing)

## Example for fixed point and loose bearing

## fixed bearing (fixed point)



## loose bearing (skid)



Corian facade panel

#### Intended use

Specifications - installation and use

Annex B 5

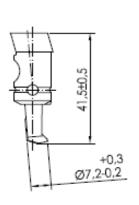


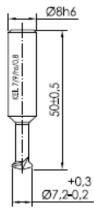


for KEIL facade drill bit 7/9

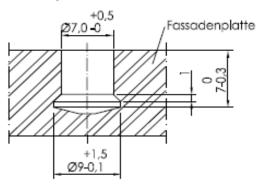
Carbide tipped facade drill bit



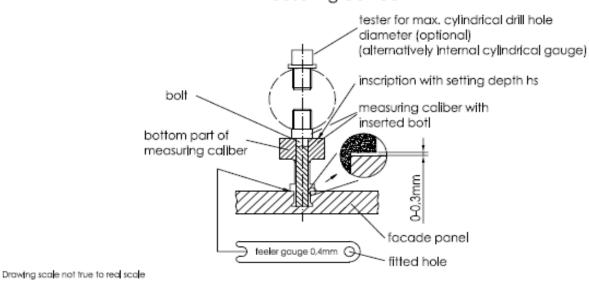




## Geometry of the drill hole



## KEIL measuring device



Corian facade panel

Annex B 6

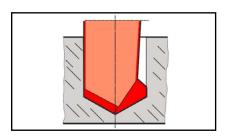
#### Intended use

Drill hole dimensions Setting tools and testing equipment

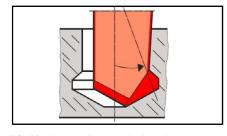


## Installation instructions fastener

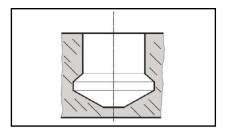
## 1. Drilling the undercut hole



a) Cylindrical drilling

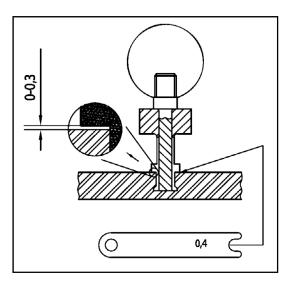


b) Undercutting and clearing



c) Finished undercut hole

## 2. Checking the undercut hole



with KEIL depth control guide

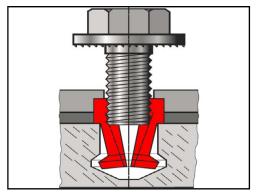
Corian facade panel

Performances
Installation instructions fastener

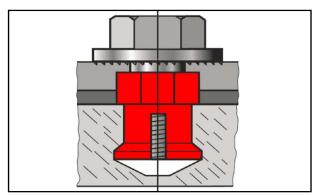
Annex B 7



## 3. Installation of fastener (sleeve and screw)

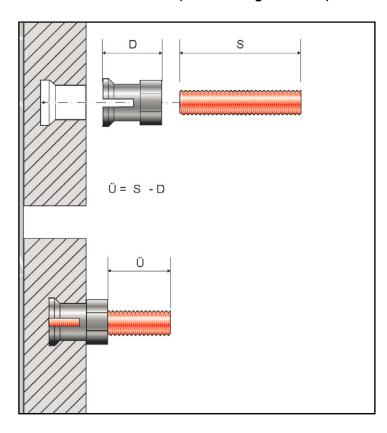


a) Insert the sleeve in the undercut hole and drill the screw in the sleeve



b) Installed undercut anchor

### 4. Installation of fastener (sleeve and grub screw)



- a) Insert the sleeve in the undercut hole
- b) Drill the grub screw in the sleeve

c) Installed undercut anchor

Corian facade panel

Performances
Installation instructions fastener

Annex B 8



## Table C1: Characteristic values and performances of the anchor and Corian façade panel "Corian EC Glacier White"

s of	panel thickness		h≥	[mm]	12,0
characteristic values o Corian façade panel	char. resistance to bending stress 1)		σ <sub>B,Rk</sub> =	[N/mm²]	61,6
ristic <sub>'</sub> façad	Mean value of modulus of elasticity		E <sub>mean</sub> =	[N/mm²]	8500
ıracte	thermal coefficient		ατ =	[1/K]	30,5 x 10 <sup>-6</sup>
cha	dead load		g <sub>k</sub> =	[kN/m <sup>2</sup> ]	0,21
	anchorage depth				
آ ۾	anchorage depth		h <sub>s</sub> =	[mm]	7
ralues of anchor	anchorage depth	tension load <sup>2)</sup>	h <sub>s</sub> =		7 2,90
istic values of 1 7,0 anchor		tension load <sup>2)</sup> shear load <sup>2)</sup>		[mm]	
characteristic values of KEIL KH 7,0 anchor	characteristic		N <sub>Rk</sub> =		2,90

<sup>1)</sup> Without effects of aging (UV-radiation), freeze thaw cycles and temperature

#### Aspects of safety and accessibility in use

Table C1-2 :Effects of temperature variations on the bending properties of Corian façade panel "Corian EC Glacier White" – ratio for the effect of temperature

Effects of temeperature	Tested acc. EN ISO 178	Bending strengths ratios $\sigma_B$	Bending modulus ratios E <sub>B</sub>
	T= -20° C	1,238	1,127
	T= +60° C	0,820	0,787
Ē	T= +80° C	0,648	0,625

Corian facade panel	
Performances Characteristic values of the anchor and Corian façade panel	Annex C 1

<sup>&</sup>lt;sup>2)</sup> in case of coincident stress of an anchor due to tension and shear load the equation according to Annex B 4 shall be observed

<sup>&</sup>lt;sup>3)</sup> For small fitted pieces, differential and fill-in pieces the edge distance and spacing shall be chosen constructively



## Aspects of durability and serviceability

Table C2-1 : Effects of freeze-thaw resistance on the bending properties of Corian façade panel "Corian EC Glacier White" – ratio for the effect of freeze-thaw

Effects of freeze-thaw	Tested acc. EN 12467	Bending strengths ratios	Bending modulus ratios E <sub>B</sub>
fr E	100 freeze-thaw cycles	0,962	0,974

Table C2-2 : Effects of UV radiation on the bending properties of Corian façade panel "Corian EC Glacier White" – ratio for the effect of UV radiation

Effects of freeze-thaw	Tested acc. EN ISO 4892-2	Bending strengths ratios σ <sub>B</sub>	Bending modulus ratios E <sub>B</sub>
	Accelerated ageing 3000 h (UV + humidity)	0,937	0,970
	Method A, cycle 1, 1500 h, 4500 h, 6000 h Most unfavourable ratios	0,819	0,958

Corian facade panel	
Performances Characteristic values of the anchor and Corian façade panel	Annex C 2



Test	specimen	max W <sub>u</sub> failure -load [kPa]	Type of failure	Deflection [mm] (a)	
Ref.	Test set-up <sup>1</sup>			Permanent	Instantaneous
1	A (see Annex C 4)	3.0	Permanent deflection < 1 mm	0.97 (b)	11.0 (b)
	- ',	3.5	Bending failure of cladding element starting at undercut drilling	-	13.0 (b)
2	A (see Annex	3.8	Permanent deflection < 1 mm	0.90 (2/3)	8.1 (b/c)
	C 4)	5.8	Bending failure of cladding element starting at undercut drilling	-	16.0 (c)

- (a) Deflection including displacements of all façade components
- (b) Positions of measurement points in centre of cladding element
- (c) Positions of measurement points at edge of cladding element (next to fixing point)

Note 1: The results of the wind suction load tests on Corian façade system with cladding elements are transferable to kits with smaller cladding elements having the same thickness and bending strength as well as the same number of fixing per panel and analogue set-up parameters.

<sup>1</sup> The assessment of the kit were carried out under the described conditions and the information given in Annex A-C

Corian facade panel	
Performances Characteristic values – wind load	Annex C 3

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English translation prepared by DIBt



Note 2: The resistance to wind pressure is expected to be higher than the resistance to wind suction load, therefore, no supplementary tests with a wind pressure load have to be performed. The above mentioned characteristic values apply also for wind pressure resistance (see EAD, section 2.2.9)

Note 3: The Corian panels must be fixed in a configuration without technical restraint.

#### Test set-up A

#### Cladding element:

Corian "Glacier White" board Wnom x Hnom x tnom = 930 x 1980 x 12 [mm]

#### Fixation:

Cladding fixed with 2 x 3 KEIL undercut anchors KH7.0 and agraffes type Eurofox MFT-HP 300/40 K, L = 40 mm Position of undercut drillings with edge distance(s) of aR = 150 mm

#### Subframe and brackets:

- 3 extruded aluminium horizontal agraffe profiles type Eurofox MFT-HP 300/40 K distances between horizontal profiles: 840 mm / 840 mm span width of horizontal profiles: 630 mm each
- 2 extruded vertical profiles type Eurofox MFT-L 60x40x2 distances between vertical profiles: 630 mm
   span width of vertical profiles: 840 mm / 840 mm (= distances between brackets)
- 2 x 3 brackets type Eurofox MFI 065 L11 and M11
- Fasteners between profiles and between profiles and brackets: drilling screws type Eurofox S-AD01S 5,5x19

#### Test set-up B

#### Cladding element:

Corian "Glacier White" board Wnom x Hnom x tnom = 930 x 1560 x 12 [mm]

#### Fixation:

Cladding fixed with 2 x 3 KEIL undercut anchors KH7.0 and agraffes type Eurofox MFT-HP 300/40 K, L = 40 mm Position of undercut drillings with edge distance(s) of aR = 150 mm

#### Subframe and brackets:

- 3 extruded aluminium horizontal agraffe profiles type Eurofox MFT-HP 300/40 K distances between horizontal profiles: 630 mm / 630 mm
   span width of horizontal profiles: 630 mm each
- 2 extruded vertical profiles type Eurofox MFT-L 60x40x2
   distances between vertical profiles: 630 mm
   span width of vertical profiles: 630 mm / 630 mm (= distances between brackets)
- 2 x 3 brackets type Eurofox MFI 065 L11 and M11
- Fasteners between profiles and between profiles and brackets: drilling screws type Eurofox S-AD01S 5,5x19

Corian facade panel	
Performances Characteristic values – wind load	Annex C 4

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