



# KOMO<sup>®</sup> attest-with-product certificate

Installed in  
building

## Stichting Keuringsbureau Hout SKH

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## CANEXEL EXTERIOR WALL CLADDING

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### Producer

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### Factory

Canoxel Hardboard Division  
Chester NS  
CANADA

### Declaration of SKH

This attest-with-product certificate has been issued by Stichting Keuringsbureau Hout (the Dutch Foundation for Timber Certification, SKH) on the basis of BRL 4103 'Wooden and wood-based façade covering systems', in accordance with the SKH Regulations for Certification.

SKH declares that Canoxel exterior wall cladding is suitable for the cladding of exterior walls under conditions as described in this attest-with-product certificate, provided that Canoxel complies with the technical specifications stipulated in this attest-with-product certificate, and that the exterior wall cladding process is carried out in compliance with the working methods stipulated in this attest-with-product certificate.

SKH declares that there is a legitimate confidence that the Canoxel exterior wall cladding produced by the manufacturer will persistently comply with the technical specifications stipulated in this attest-with-product certificate, provided that it bears the KOMO<sup>®</sup> quality mark illustrated below in a manner as indicated in this attest-with-product certificate.

Within the scope of this attest-with-product certificate, no inspections will be carried out by SKH on the production of the other components of the exterior wall cladding, or on the application of the exterior wall cladding.

SKH declares that in its appropriate applications, under the conditions listed above, Canoxel exterior wall cladding complies with the applicable requirements of the Building Act. For the accreditation by the Ministry of Housing, Planning and the Environment, we refer you to the 'Overview of Accredited Quality Declarations in the Construction Industry', available on the website of the *Stichting Bouwkwaliiteit* (SBK, the Dutch Building Quality Foundation): [www.bouwkwaliiteit.nl](http://www.bouwkwaliiteit.nl).

For SKH

R. Wigboldus, director

Users of this attest-with-product certificate are advised to enquire at SKH whether this document is still valid.

This attest-with-product certificate is made up of 13 pages.



## Building Act

The following has been assessed:  
quality system product  
Performance  
product in application  
Periodic control

## CANEXEL EXTERIOR WALL CLADDING

### BUILDING ACT ENTRY

No.	Section	Limiting value / method of determination	Performance according to quality declaration	Remarks in connection with its use
2.1	General strength of the construction	Maximum threshold conditions, calculated in accordance with NEN 6760	Canixel exterior wall cladding complies with requirements	
2.12	Restriction on fire retardant properties	Category 1, 2, 3 or 4 in accordance with NEN 6065	Category 4	
3.15	Restriction on the use of hazardous substances	In accordance with requirements of ministerial regulations	Complies with requirements	
3.17	Protection against rats and mice	Openings < 0.01 m	Processing instructions	

### 1 PRODUCT SPECIFICATION

#### 1.1 Subject

Canixel exterior wall cladding, intended for application prior to or during the completion phase of newly built or existing houses, residential buildings or buildings not intended for residential purposes, is suitable for application in unprotected exterior and protected 'exterior' situations (such as for example in atriums) for residential, storage and utility buildings, etc.

The product is produced in the following models (see also Appendix 1):

1. Ridgewood
2. Ced'r-TEX
3. Ultraplank

#### 1.2 Composition

Canixel exterior wall cladding is manufactured from a felted fibrous fabric that is pressed under high pressure and temperature into mouldings for exterior wall cladding. Additional substances are added during the production process to improve resistance to weathering. During the pressing process, a wooden profile is pressed into the surface. The weathering-resistant surface processing is carried out by baking multiple coats of paint onto the component parts.

#### 1.3 Types of exterior wall cladding

The product is produced in the following types (see also Appendix 1):

1. Ridgewood, dimensions 3660 x 280 x 9.5 mm (L x W x T);
2. Ced'r-TEX, dimensions 3660 x 200 x 9.5 mm (L x W x T);
3. Ultraplank, dimensions 3660 x 280 x 9.5 mm (L x W x T).

#### 1.4 Quality mark

Canixel exterior wall cladding is marked with the KOMO<sup>®</sup> quality mark.

The design of the mark is as follows:

- KOMO<sup>®</sup> trademark or logo;
- attest-with-product certificate no. 20600.



Location of the logo: on the packaging of the components (per four components).

## CANEXEL EXTERIOR WALL CLADDING

### 2 PROCESSING REQUIREMENTS

#### 2.1 GENERAL

Canixel exterior wall cladding can, among other uses, be applied as exterior wall cladding to an interior surface of a cavity wall or to an existing exterior wall. A ventilated cavity of at least 20 mm deep shall always be present behind the exterior wall cladding. In all cases where the wall cladding will be applied to metalwork or a concrete structure, the ventilated cavity shall be a minimum of 40 mm deep.

#### 2.2 Surface treatment

Canixel exterior wall cladding is provided with a weathering-resistant surface treatment during manufacture.

#### 2.3 Framework

A framework of softwood treated with preservative should be fitted to the supporting structure for the mounting of the Canixel exterior wall cladding. The dimensions of the bracing struts should be a minimum of 28 x 45 mm. The wood for the framework shall at least comply with category C18 in accordance with NEN-EN 338. For horizontal mounting, the centre-to-centre distance of the bracing struts should be 400 mm. For diagonal mounting, the centre-to-centre distance should be 300 mm. For the cladding of masonry or concrete structures, an unbroken moisture barrier, for example a 0.15 mm polyethylene membrane, should be fitted. Canixel exterior wall cladding shall not come into contact with masonry or concrete.

#### 2.4 Mounting Canixel exterior wall cladding

##### 2.4.1 Fixing

For fixing, in both horizontal and vertical planes, a framework of softwood treated with preservative, with a centre-to-centre distance of the bracing struts of 400 mm, should be fitted to the supporting structure (or section of interior surface of cavity wall). For diagonal mounting, the centre-to-centre distance should be 300 mm. Fixing should be carried out using corrosion-resistant nails, e.g. stainless steel round- or flat-headed 4.75 mm nails. The nail-jointing should be approximately 12 mm from the upper side, so that a covering of the nail-jointing is achieved. The distance between the nails is dependent on the procedure described above, with a centre-to-centre distance of 300 or 400 mm respectively. The length of the nails should be 40 mm. Damage to the treated surface should be avoided. On exterior walls taller than 15 m, the length of the panels should not exceed 2.4 m.

##### 2.4.2 Ventilation

The ventilation cavity behind the cladding should be at least of 28 mm (regulation width). The minimum distance to ground level should be 200 mm. For the prevention of the entry of insects etc., a barrier of fine-meshed gauze should be fitted on the underside behind the cladding. Between the cladding and, for example, sections of the exterior wall, a vent of a minimum of 20 cm<sup>2</sup> should be provided for exterior walls up to 1 metre high, and of 50 cm<sup>2</sup> for exterior walls of more than 1 metre high. For vertical applications, horizontal struts should be fitted to the vertical framework.

For the mounting of CANEXEL, the nails shall be driven a minimum of 32 mm into the framework.

##### 2.4.3 Joints

For mounting the CANEXEL laths, butt joints of a minimum of 10 mm should be used at the fixing points. A linking moulding should be employed at these points (see figure 7).

For horizontal mounting, a strut should be present at the location of the butt joints. If this is not the case, an extra supporting element should be fitted at this point.

Where recesses occur, e.g. because of exterior wall elements, lead-throughs, grilles etc., a dilation space of 1 mm per m<sup>1</sup> of wall cladding should be provided.

##### 2.4.4 Aids

Mouldings can be used for the mounting of the wall cladding, such as an initial moulding to ensure a clean profile, a linking moulding (see 2.4.3), exterior corner mouldings to ensure a water-tight perpendicular fit of CANEXEL components, interior corner mouldings for fastening all interior corners, and covering frames for the protection and surfacing of the upper sides of the components (see figures 1, 2, 3 and 6).

##### 2.4.5 Maintenance

Maintenance can be limited to the regular removal of dirt with a non-abrasive household detergent. Small scratches and other minor damage can be repaired with the use of CANEXEL retouching paint.

## CANEXEL EXTERIOR WALL CLADDING

### 3 PERFORMANCE ON BASIS OF BUILDING ACT

#### 3.1 Performance on safety aspects

GENERAL STRENGTH: Building Act - Section 2.1

##### 3.1.1 Strength: Building Act - Section 2.1

Canexel exterior wall cladding, when fitted on an outer wall in accordance with the specifications stated in the Appendix of this attest-with-product certificate, is in compliance with the requirements of the Building Act.

RESTRICTION ON FIRE RETARDANT PROPERTIES: Building Act - Section 2.12

##### 3.1.2 Contribution to spread of fire: Building Act - Section 2.91

The fire resistance category of Canexel, as determined in accordance with NEN 6065, is category 4 with regard to contribution to the spread of fire.

#### 3.2 Performance on health aspects

RESTRICTION ON THE USE OF HAZARDOUS SUBSTANCES: Building Act - Section 3.15

##### 3.2.1 Application of hazardous substances: Building Act - Section 3.106

The materials used are in compliance with the conditions stated in the Building Act.

PROTECTION AGAINST RATS AND MICE: Building Act - Section 3.17

##### 3.2.2 Openings: Building Act - Section 3.114

Openings are no wider than 0.01m (see processing instructions).

#### 3.3 Performance on operability aspects

RESISTANCE TO RAINWATER OF EXTERIOR PARTITIONS; Building Act - Sections 4.12, 4.13 and 4.14

### 4 PERFORMANCE ON OTHER ASPECTS ON BASIS OF REQUIREMENTS OF BRL 4103

#### 4.1 Resistance to shearing and slippage of fixings: BRL - Section 5.1

Canexel exterior wall cladding, mounted in accordance with the processing instructions stated in this attest-with-product certificate, complies with the requirements of the BRL.

#### 4.2 Impact resistance: BRL - Section 5.2

Canexel exterior wall cladding displays no lasting deformation or breakage of the fixings or the cladding as a result of impact, in accordance with NEN-EN 950 (3 Nm) and NEN-EN 949 (50 Nm).

#### 4.3 Resistance to variable wind loads: BRL - Section 5.3

Canexel exterior wall cladding displays no lasting deformation or breakage of the fixings or the cladding as a result of mechanical fatigue caused by variable wind loads, in accordance with NEN 3665.

#### 4.4 Durability under influence of variable humidity and temperature: BRL - Section 5.4

Canexel exterior wall cladding displays no lasting deformation or breakage of the fixings or the cladding as a result of variable humidity and temperature conditions, in accordance with the accelerated weathering cycle specified in BRL 4103.

### 5 MATERIALS

#### 5.1 Strength and elasticity

##### 5.1.1 Modulus of elasticity

The modulus of elasticity of Canexel exterior wall cladding, determined in accordance with NEN-EN 310, amounts to a minimum of 3,000 N/mm<sup>2</sup>.

##### 5.1.2 Flexural strength

The flexural strength of Canexel exterior wall cladding, determined in accordance with NEN-EN 310, amounts to a minimum of 30 N/mm<sup>2</sup>.

## CANEXEL EXTERIOR WALL CLADDING

### 5.1.3 Internal Bond Strength

The internal bond strength of Canixel exterior wall cladding before the cyclic test specified in NEN-EN 319 and after the cyclic test specified in NEN-EN 321 amounts to a minimum of 1.0 N/mm<sup>2</sup> and 0.2 N/mm<sup>2</sup> respectively.

### 5.2 Reaction to humidity

#### 5.2.1 Humidity level

Canixel exterior wall cladding is supplied at a moisture content of 7 ± 2%.

#### 5.2.2 Dimensional variation as a result of variable air humidity

The dimensional variation as a result of variable air humidity of Canixel exterior wall cladding, determined in accordance with NEN-EN 318, amounts to a maximum of 0.3% in length and a maximum of 6.0% in width.

#### 5.2.3 Dimensional variation as a result of contact with water

The dilation as a result of immersion in cold water, determined in accordance with NEN-EN 317, amounts to a maximum of 7%.

### 5.3 Other provisions

#### 5.3.1 Suitability for finishing

Canixel exterior wall cladding is provided with a weather-resistant surface finish.

#### 5.3.2 Temperature resistance (particularly frost)

Canixel exterior wall cladding displays no damage or breakage that negatively impact upon the operational durability of the system as a result of variable humidity and temperature conditions, including frost, in accordance with the accelerated weathering cycle specified in BRL 4103.

### 5.4 Fixings

The nails used shall be galvanised or stainless steel, with a 4.75 mm head and a length of 40 mm.

## 6 SUGGESTIONS FOR THE USER

### 6.1 Application

Always follow the application instructions stated in this attest-with-product certificate. Canixel exterior wall cladding is intended for application prior to or during the completion phase of newly built or existing houses, residential buildings or buildings not intended for residential purposes.

### 6.2 On delivery of the exterior wall cladding, check that:

- the delivered products are as ordered;
- the quality marks and the marking method are correct;
- the products display no visible defects as a result of transport, etc.

If the products are rejected on the basis of the above criteria, contact should be made with:

#### Fetim B.V.

and if necessary with:

The certification-body Stichting Keuringsbureau Hout SKH  
Office building 'Het Cambium',  
Nieuwe Kanaal 9c, 6709 PA Wageningen  
P.O. Box 159, 6700 AD Wageningen, The Netherlands  
Telephone: +31 (0) 317 45 34 25 E-mail: mail@skh.org  
Fax: +31 (0) 317 41 26 10 Website: http://www.skh.org

### 6.3 Product certificate

The producer is required to ensure that the customer has access to a copy of the full attest-with-product certificate at the workplace.

### 6.4 Application and use

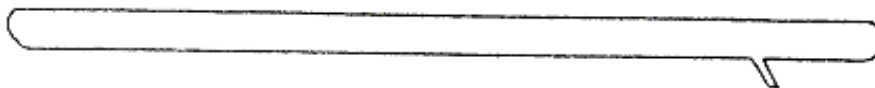
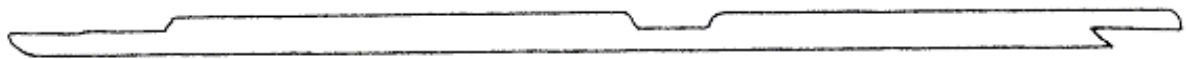
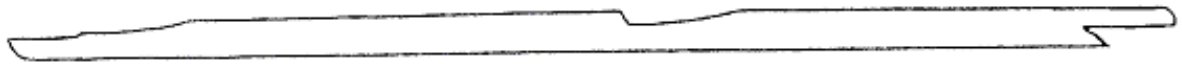
Transport, storage and processing should be carried out in accordance with the processing instructions included in this attest-with-product certificate.

### 6.5 Period of validity

Consult the SKH website <http://www.skh.org> to verify whether the attest-with-product certificate is still valid.

## CANEXEL EXTERIOR WALL CLADDING

### Appendix 1



#### **CANEXEL Ridgewood**

(l x w x t) 3,660 x 280 x 9.5 mm net  
(horizontal, vertical, diagonal)

#### **CANEXEL Ultraplank**

(l x w x t) 3,660 x 280 x 9.5 mm net  
(horizontal, vertical, diagonal)

#### **CANEXEL Ced'r-tex**

(l x w x t) 3,660 x 280 x 9.5 mm net  
(horizontal)

#### **KEY**

V = ventilation

1 = Ridgewood

2 = Ced'r-tex

3 = struts min. 400 mm centre-to-centre

4 = watertight vapour-permeable membrane

5 = insulation/framework

6 = initial moulding

7 = drainage moulding

8 = exterior corner moulding

9 = interior corner mouldings

10 = 15 mm covering frame for Ridgewood type

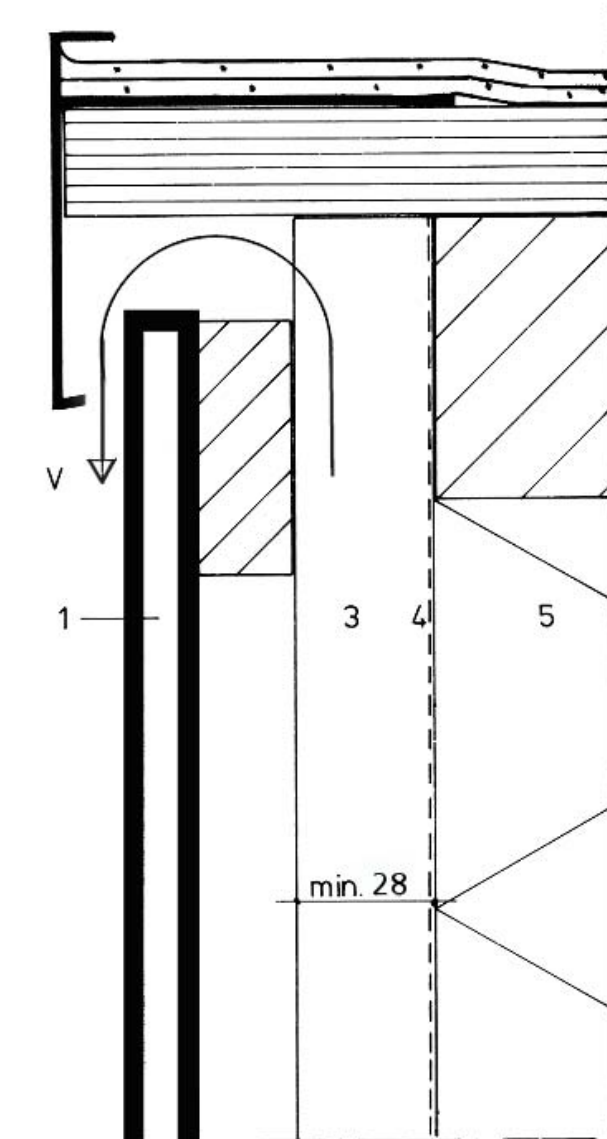
11 = head moulding for Ridgewood/ Ced'r-tex types

12 = vinyl flashing

13 = aluminium weather cornice with front plate

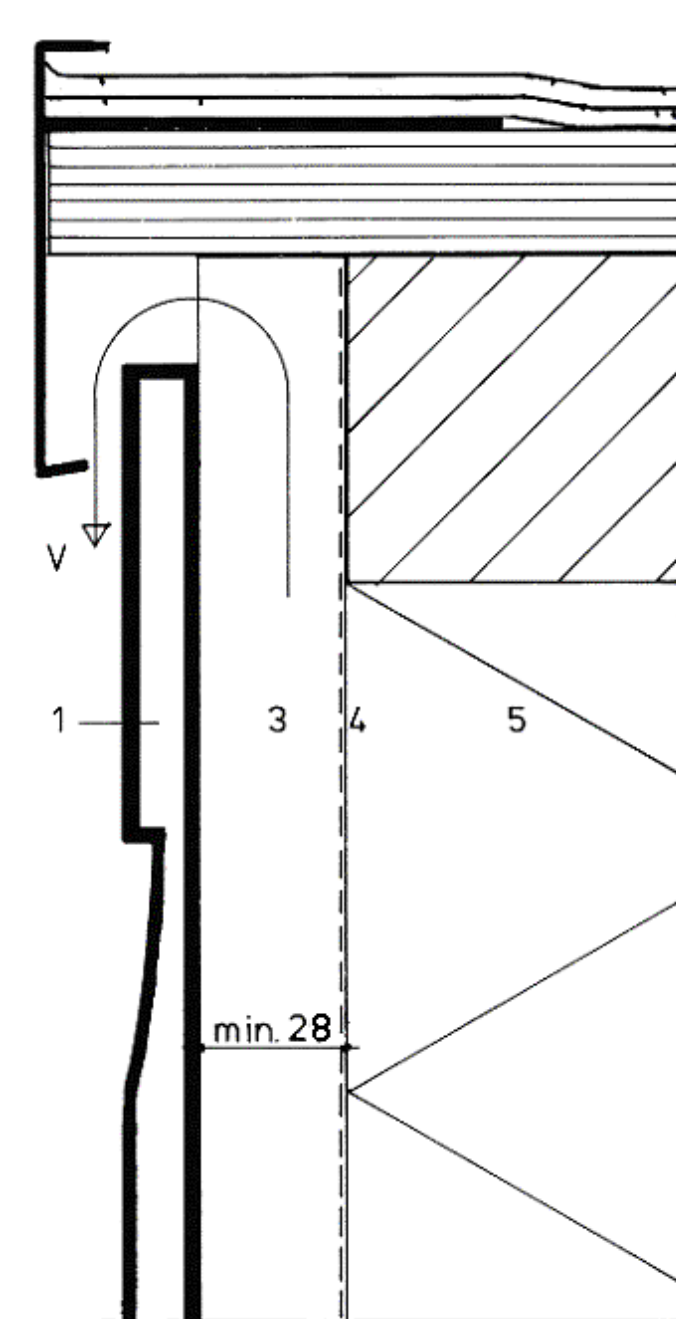
## CANEXEL EXTERIOR WALL CLADDING

Figure 1  
Top view – Ridgewood type - vertical mounting



## CANEXEL EXTERIOR WALL CLADDING

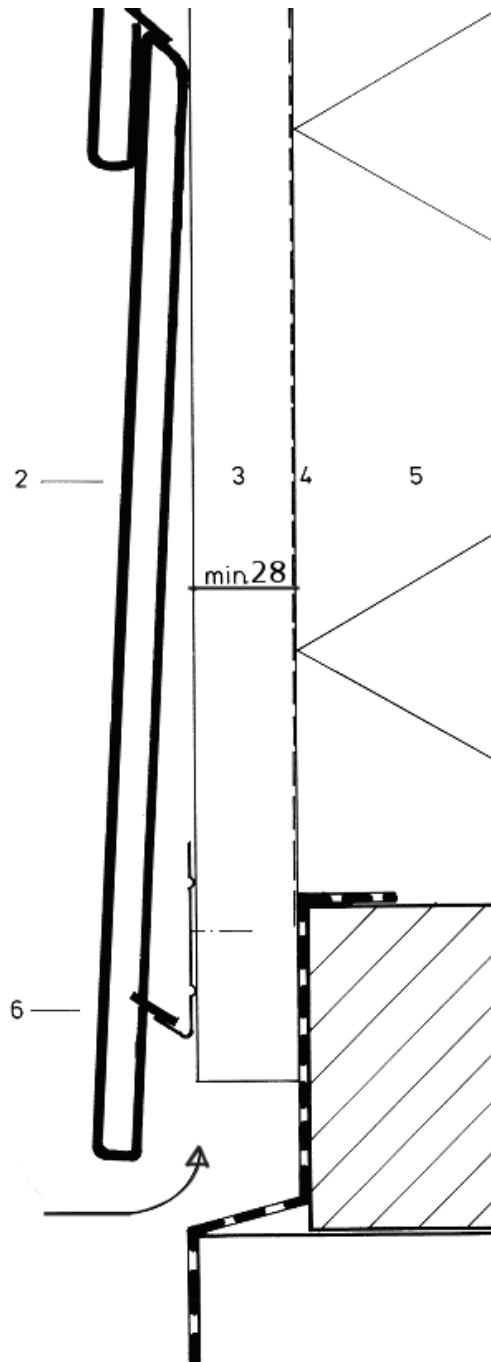
Figure 2  
Top view - Ridgewood, Ultraplank and Ced'r-tex types - horizontal mounting





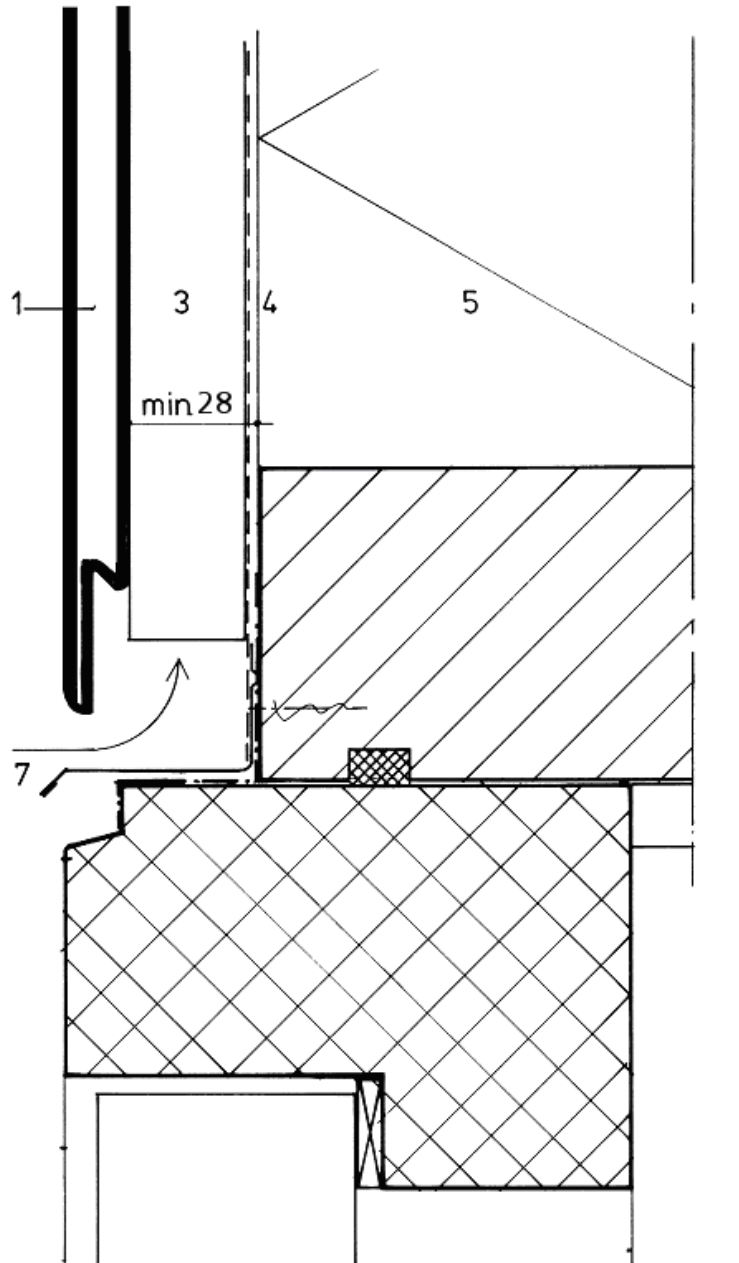
## CANEXEL EXTERIOR WALL CLADDING

Figure 4  
Bottom view - Ced'r-tex type - horizontal mounting



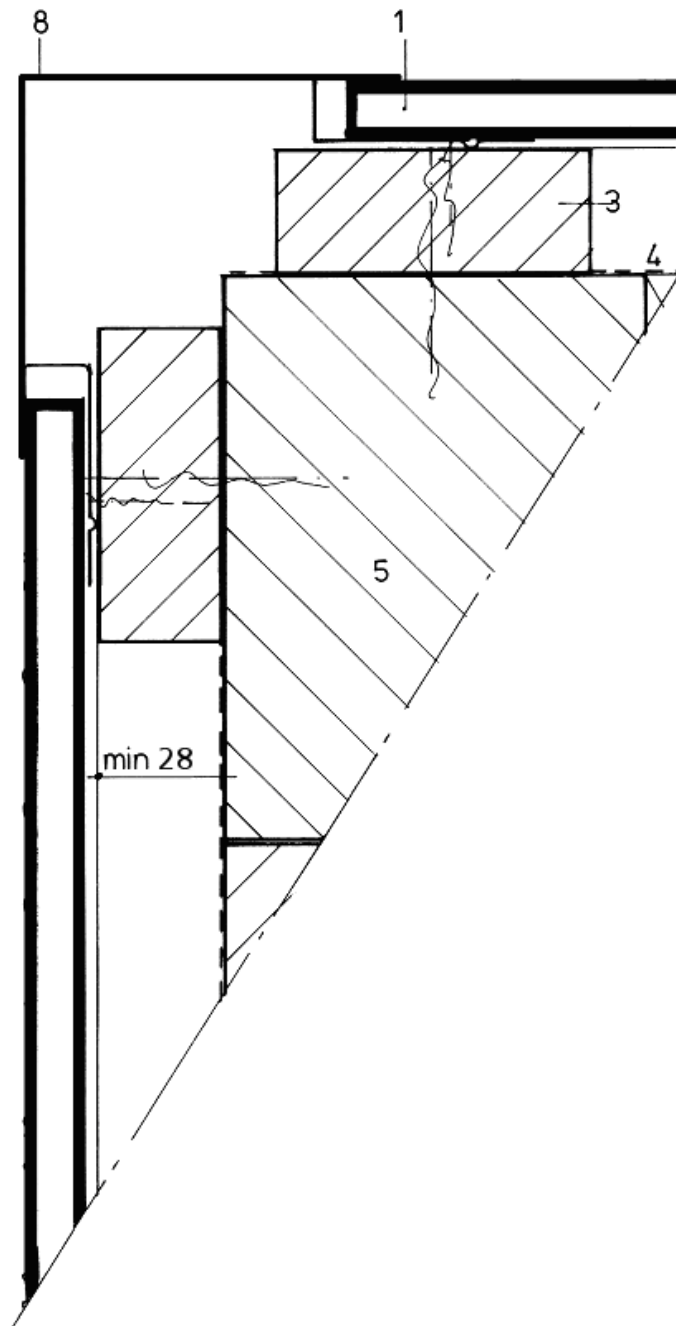
## CANEXEL EXTERIOR WALL CLADDING

Figure 5  
Bottom view above frame - Ridgewood and Ultraplank types - horizontal mounting



## CANEXEL EXTERIOR WALL CLADDING

Figure 6  
Exterior corner view - Ridgewood and Ultraplank types



## CANEXEL EXTERIOR WALL CLADDING

Figure 7

