Contego
by Domex
Two Contego skylights on a flat felt roof.
"Contego by Domex - A clear choice"

With the new skylight solution Contego - Domex offers a modular, aesthetically clean next generation skylight with improved features - setting new standard for fire ventilation skylights and light rows on the Danish market.

- Improved insulation
- Leight Weight
- High Inflow of Light
- Modular Solution
- Easy Mounting
- Fast Production
A Contego light row shown with two opening modules.
A detail shot of the lift/slide opening mechanism in Contego - A new principle developed by Domex.
The opening hatch slid fully open - Functionallity and aesthetics combined in a simple solution.
The simple construction of Contego induces a high insulation value and minimizes thermal bridges.

Contego’s U-value of 1.2 W/m²K secures that Contego is prepared - and goes beyond the coming insulation requirements of 1.5 W/m²K in the near future.
Polycarbonate Plate 5 layer 10 mm
TPE Rubber Profile
Weather strip EPDM Cell rubber
Spruce Plywood 9 mm
Pine Construction Wood 45 x 105 mm
Insulation 45 mm
Aluminum 6063
El-galvanized Facade Screw 6 x 50 mm
Stainless Bracket Screw 4 x 40 mm
The heaviest module in Contego weighs 23.5 kg, which complies with the maximum weight of 25 kg set by the Danish work environment regulations.

Thereby all modules can be handled by one person according to the regulation - and the large size modules can easily be handled by two persons.
Contego is aesthetically very simple seen from the inside - with no motor to disturb the view. Thereby the inflow of light is maximized in Contego - 92% of the skylights surface is transparent.
Contego skylight and Contego light row are constructed of modules that can be produced in series - and thereby reduce the delivery time.

The same modules are used in the light row and skylight, which makes the production fast and flexible.
The end gable is constructed of two plywood plates with 45mm insulation in between. The sides, top and bottom are closed with pinewood construction wood. Weather strips are placed on the top of each plywood plate to seal the joint to the upper end gable in the fixed light.
There are three types of side frames in Contego - two types are used in the skylight and three types in the light row.

Two modules are for the side frame ends and the last module is used to create the desired length. The modules are constructed similarly to the end gable.
The small fixed light consists of a vaulted gable - constructed similarly to the end gable - and a fixed light with a rubber profile that meets an inverted rubber profile on the hatch.

The module can be produced with PC plates in variable lengths.
The large fixed light comes in two variations. One constructed like the small fixed light and another without a vaulted gable.

The module without vaulted gable is used to create the desired length of the light row.
The hatch is constructed with identical ends so it cannot be placed incorrectly.

Three supporting crossbars stiffen the hatch - preventing it from twisting when performing the opening movement. Only the mid crossbar can be seen from the inside.
Contego’s opening mechanism is driven by a spindle motor that is placed outside on the upper side frame.

The motor is a complete kit delivered from the manufacturer - ready to mount on the upper side frame.
In Contego there are twelve types of profiles, three types of screws, seams and weather strip.
Contego skylights are transported in bundles. The frames are stacked on top of each other and the lights on top of the frames. Motors and small fixed modules lie on a separate pallet.

Light rows are transported as modules on pallets.
Mounting
Contego skylight

From truck to roof
Contego skylight is lifted with a crane on the roof - in the same sized bundles as it in the transport.
Unloading Bundle

The light and motor modules are manually lifted of the transportation bundle. Afterwards the frames are lifted into the pre cut holes on the roof.
Top Frame and Motor

The upper side frames with aluminum profiles and motor are placed on top of each of the long sides and screwed to the lower side frame.
Small Fixed Light

A small fixed light is placed on the lower gable. The module is fastened with screws through the frame on the gable and with screws through the aluminium profiles on the light into the upper side frame.
A large fixed light is placed on the opposite gable. The module is fastened with screws to the frame’s gable and through the aluminium profiles on the light into the upper side frame.
Hatch

The hatch is placed in between the two fixed lights and mounted to the motor’s swing arms.
Felt roof and finishing profiles

The aluminum sheets on the fixed lights are unmounted and felt roof is welded on the frame. The aluminum plates are screwed on the gable and the protective profiles on the side frame are clicked on an already mounted aluminum profile.
Top Frame and Motor

The frame is mounted into the pre cut hole identically to the procedure presented in the chapter "Production and Mounting" in the process report.

Afterwards the top frame with aluminum profiles and motor are placed on top of each of the long sides and screwed into the frame’s long side.
A fixed light is placed at the end of the frame. The module is fastened with screws through the frame on the short side and through the aluminium profiles on the light into the upper side frame.
**Fixed Light**

A fixed light is placed on the top frames and fastened with screws through the aluminum profiles on the fixed light into the upper side frame.
A fixed light is placed one hatch’s length away from the previously mounted fixed light. The module is not fastened right away to be able to adjust and place the hatch module correctly.
Hatch

A hatch is placed in between the fixed lights and mounted to the motor’s swing arms. Afterwards the fixed light - previously placed on the frame - is fastened with screws through the alunium profile and into the upper frame.
The last fixed light is placed at the end of the frame. The module is fastened with screws to the frame’s gable and through the aluminum profiles on the fixed light into the upper side frame.
The last module

The hatch is placed in between a fixed light and the previous placed fixed end light. Then the hatch is mounted to the motor’s swing arms.
Felt roof and finishing profiles

The aluminum sheets on the fixed lights are unmounted and felt roof is welded on the frame. The aluminum plates are screwed on the gable and the protective profiles on the side frame are clicked on an already mounted aluminum profile.
Production Price

End Gable

Plywood 9mm
Pine Laths 45 x 105
Insulation 45mm

205 Kr.

Side Frame

Plywood 9mm
Pine Laths 45 x 105
Insulation 45mm

205 Kr.

Small Fixed Light

Plywood 9mm
Pine Laths 45 x 105
105mm
PC Plate 10mm
Rubber Profile
Aluminum Profile 8
Aluminum Profile 9

112 Kr.
Large Fixed Light
- PC Plate 10mm
- Rubber Profile
- Aluminum Profile 1
- Aluminum Profile 6
- Aluminum Profile 8
- Aluminum Profile 10
- Aluminum Profile 11

952 Kr.

Hatch
- PC Plate 10mm
- Rubber Profile
- Aluminum Profile 1
- Aluminum Profile 6
- Aluminum Profile 10
- Aluminum Profile 11

955 Kr.

Motor
- Motor
- Aluminum Profile 2
- Aluminum Profile 3
- Aluminum Profile 7
- Pine Profile 5
- Plastic Profile 4

1850 Kr.
Production Price

Man Hours

Total Price

<table>
<thead>
<tr>
<th>Item</th>
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<tr>
<td>End Gable</td>
<td>2 pieces</td>
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<td>Side Frame</td>
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<tr>
<td>Large Fixed Light</td>
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<td>Hatch</td>
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<tr>
<td>Motor</td>
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<td>Man Hours</td>
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<td>9039 Kr.</td>
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Profiles in Contego

Profile 1 (Aluminum 6063) - 21.50 kr/m
Profile 2 (Aluminum 6063) - 7.30 kr/m
Profile 3 (Aluminum 6063) - 4.30 kr/m
Profile 4 (Plastic) - N/A
Profile 5 (Pine) - 7.30 kr/m
Profile 6 (Aluminum 6063) - 4.51 kr/m
Profile 7 (Aluminum 6063) - 2.86 kr/m
Profile 8 (Aluminum 6063) - 3.40 kr/m
Profile 9 (Aluminum 6063) - 6.34 kr/m
Profile 10 (Aluminum 6063) - 34.48 kr/m
Profile 11 (Aluminum 6063) - 19.90 kr/m
Profile 12 (Rubber) - N/A
Technical Drawings
Contego Skylight

Front 1:25

Back 1:25
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