

Side hung mounting with a WMU 836

Seitliche Montage mit einem WMU 836

Sidehængt montage med en WMU 836

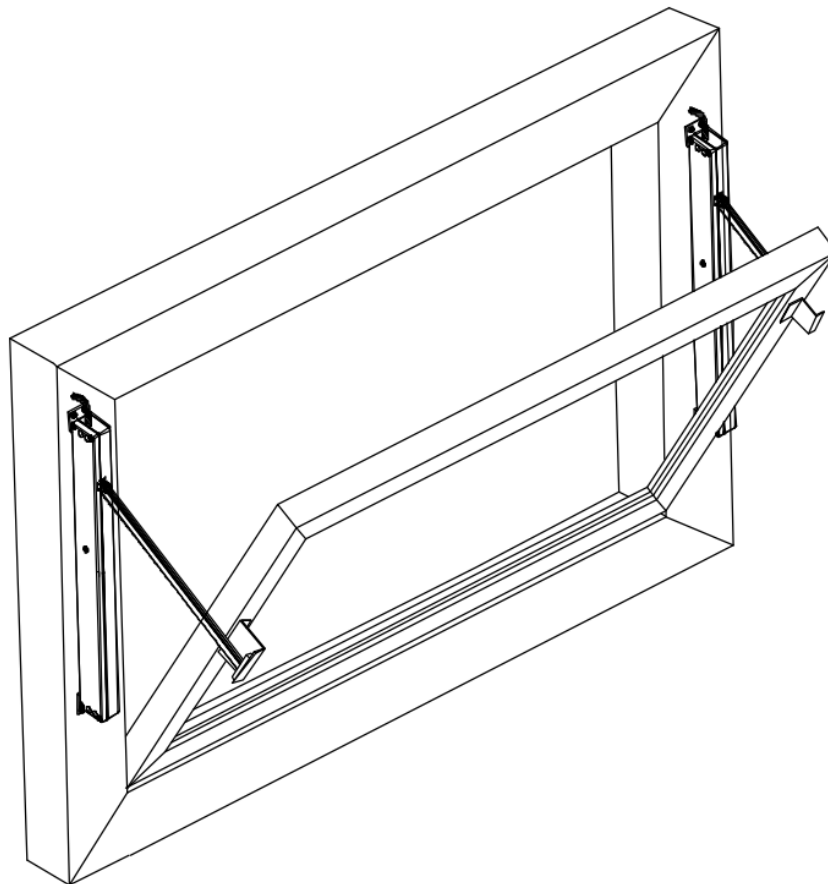


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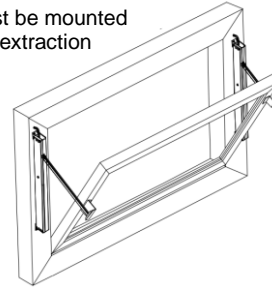
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1. Frame mounting

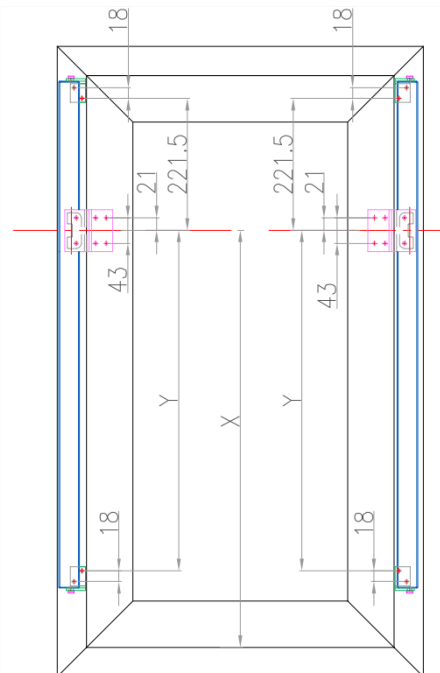
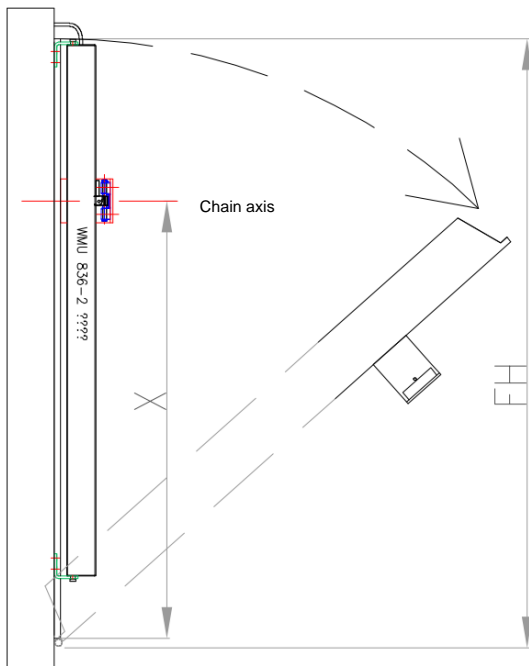
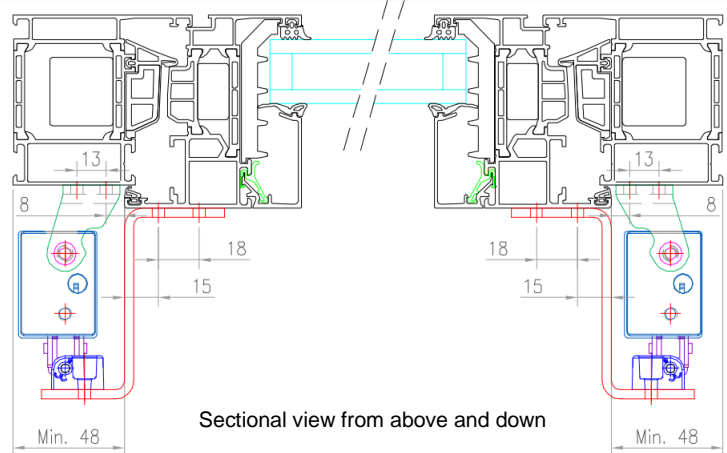
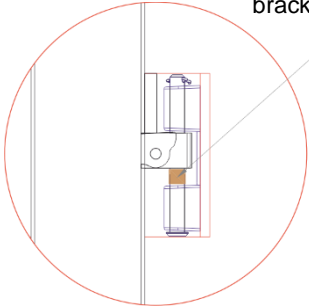
List of articles:

- 2 x actuators WMU 836-2 xxxx
- 1 x bracket set WAZ 101 0101
- Consisting of:
 - 2 x chain bracket WAB 836E
 - 2 x actuator bracket WAB 824
 - 2 x z-bracket WAB 825
 - 2 x cable ducts
 - 2 x brass sleeves

The actuator must be mounted so that the cable extraction is at the top.



The brass sleeves must be mounted in the chain bracket as shown.



- 400mm chain length = min WH: 570mm & x = min 310mm = max opening angle ~76°
- 600mm chain length = min WH: 673mm & x = min 413mm = max opening angle ~90°
- 800mm chain length = min WH: 815mm & x = min 555mm = max opening angle ~90°
- 1000mm chain length = min WH: 960mm & x = min 700mm = max opening angle ~90°

- 400mm chain length → Y = 271,5mm
- 600mm chain length → Y = 371,5mm
- 800mm chain length → Y = 471,5mm
- 1000mm chain length → Y = 571,5mm

Opening angle (a) = $2 \cdot \sin^{-1} \left(\frac{\text{chain length} / 2}{\sqrt{(61,5)^2 + (7+x)^2}} \right)$

Load per actuator = $\frac{(\text{frame weight} \cdot \sin(a - \tan^{-1}(57/((WH/2) + 7)))) \cdot (((WH/2) + 7)^2 + 57^2)^{0,5}}{\cos(a/2) \cdot (11,5^2 + (7+x)^2)^{0,5}}$

Max load per actuator ≤ 30Kg

2. Sash mounting

List of articles:

2 x actuators WMU 836-2 xxxx

1 x bracket set WAZ 102 0101

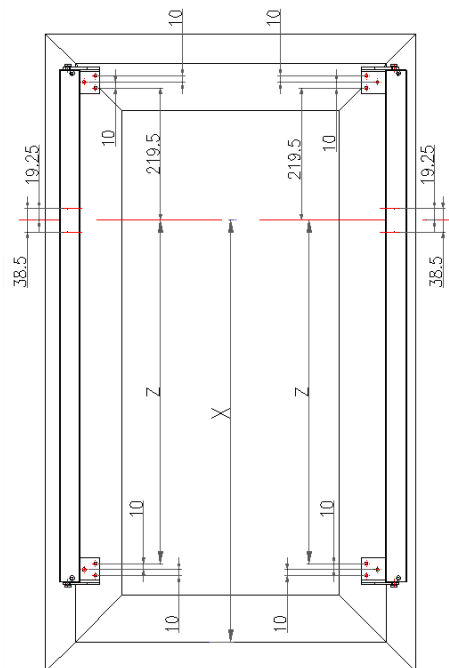
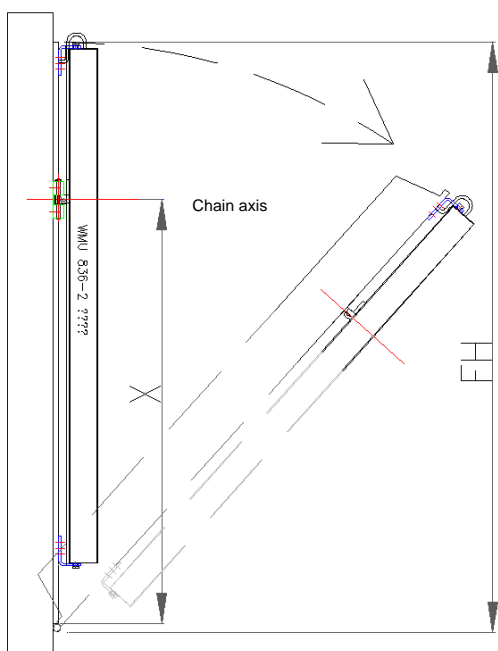
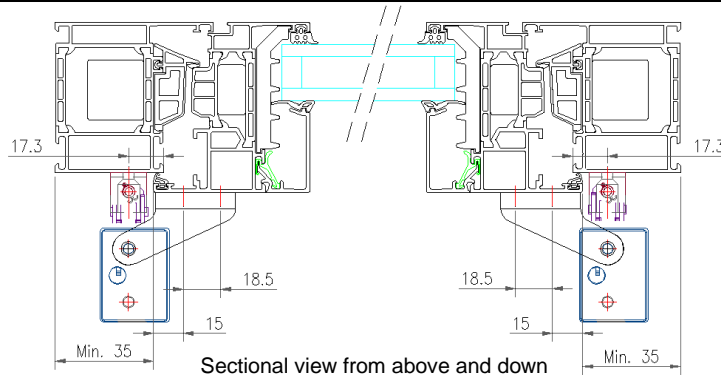
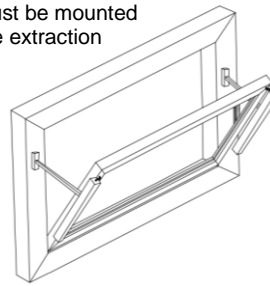
Consisting of:

2 x chain bracket WAB 811

2 x actuator bracket WAB 836P

2 x cable ducts

The actuator must be mounted so that the cable extraction is at the top.



- 400mm chain length = min WH: 570mm & x = min 310mm = max opening angle ~78°
- 600mm chain length = min WH: 677mm & x = min 417mm = max opening angle ~90°
- 800mm chain length = min WH: 820mm & x = min 560mm = max opening angle ~90°
- 1000mm chain length = min WH: 960mm & x = min 700mm = max opening angle ~90°

- 400mm chain length → Z = 269,5mm
- 600mm chain length → Z = 369,5mm
- 800mm chain length → Z = 469,5mm
- 1000mm chain length → Z = 569,5mm

$$\text{Opening angle (a)} = 2 \cdot \sin^{-1} \left(\frac{\text{chain length} / 2}{\sqrt{(11,5)^2 + (7+x)^2}} \right) \cdot 0,5$$

$$\text{Load per actuator} = \frac{(\text{frame weight} \cdot \sin(a - \tan^{-1}(57/((WH/2) + 7))) \cdot (\sqrt{(WH/2)^2 + 7^2 + 57^2})^{0,5})}{\cos(a/2) \cdot \sqrt{(11,5)^2 + (7+x)^2}^{0,5}}$$

Max load per actuator ≤ 30Kg

3. Blendrahmen Montage

Artikelliste:

2 x Antriebe WMU 836-2 xxxx

1 x Beschlagsätze WAZ 101 0101

Bestehen aus:

2 x Kettenbeschlag WAB 836E

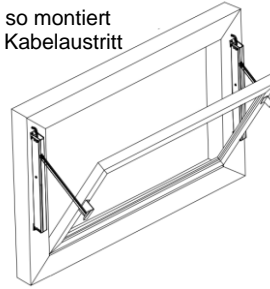
2 x Antriebsbeschlag WAB 824

2 x Z-Beschlag WAB 825

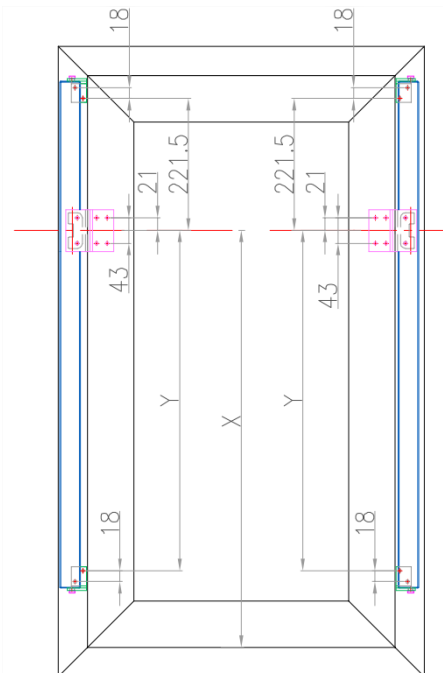
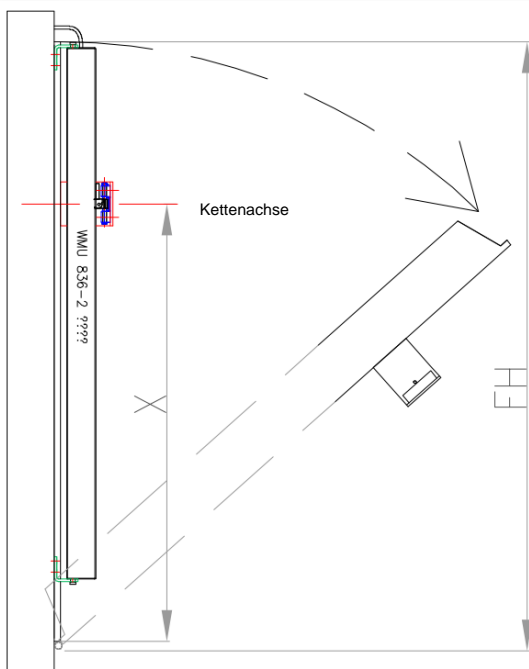
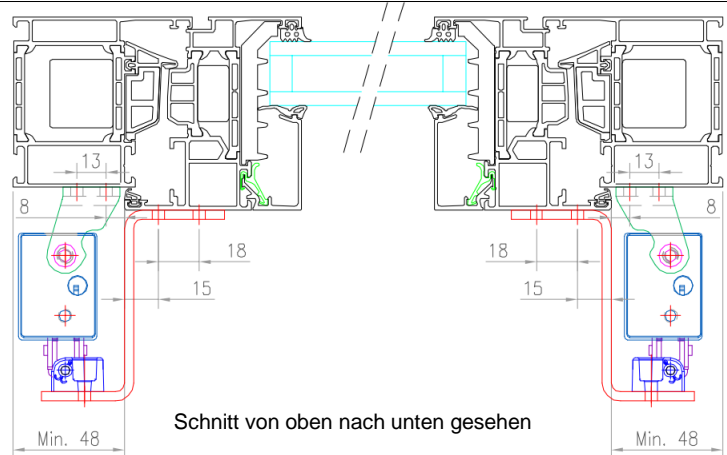
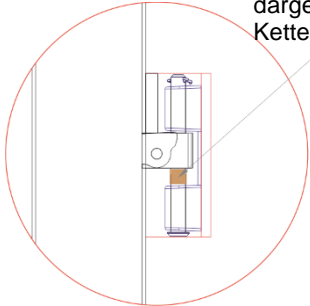
2 x Kabelkanäle

2 x Messing Hülse

Der Antrieb muss so montiert werden, dass der Kabelaustritt oben ist.



Bitte die beiliegende Messinghülse wie dargestellt im Kettenbeschlag montiere.



- 400mm Hub = Min FH: 570mm & x = Min 310mm = Max Öffnungswinkel ~76°
- 600mm Hub = Min FH: 673mm & x = Min 413mm = Max Öffnungswinkel ~90°
- 800mm Hub = Min FH: 815mm & x = Min 555mm = Max Öffnungswinkel ~90°
- 1000mm Hub = Min FH: 960mm & x = Min 700mm = Max Öffnungswinkel ~90°

- 400mm Hub → Y = 271,5mm
- 600mm Hub → Y = 371,5mm
- 800mm Hub → Y = 471,5mm
- 1000mm Hub → Y = 571,5mm

$$\text{Öffnungswinkel (a)} = 2 \cdot \sin^{-1} \left(\frac{\text{Hub}/2}{\sqrt{(61,5)^2 + (7+x)^2}} \right), 0,5$$

$$\text{Belastung pro Antrieb} = \frac{(\text{Flügelgewicht} \cdot \sin(a - (\tan^{-1}(57/((\text{FH}/2) + 7)))) \cdot (((\text{FH}/2) + 7)^2 + 57^2)^{0,5}}{\cos(a/2) \cdot (11,5^2 + (7+x)^2)^{0,5}}$$

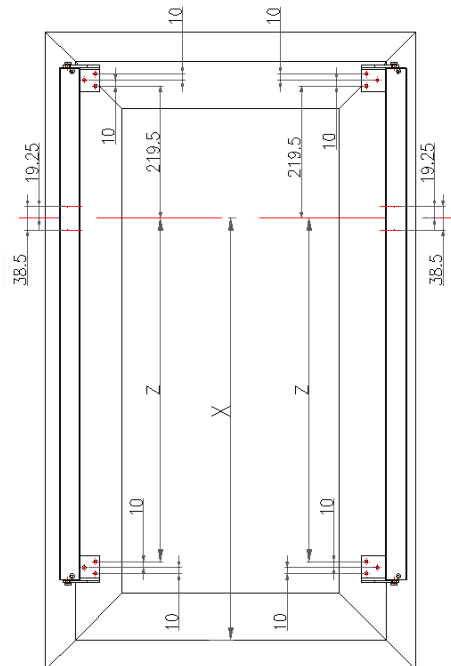
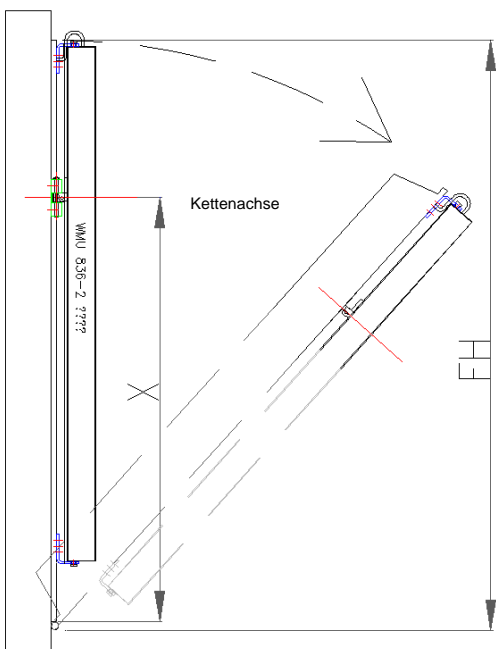
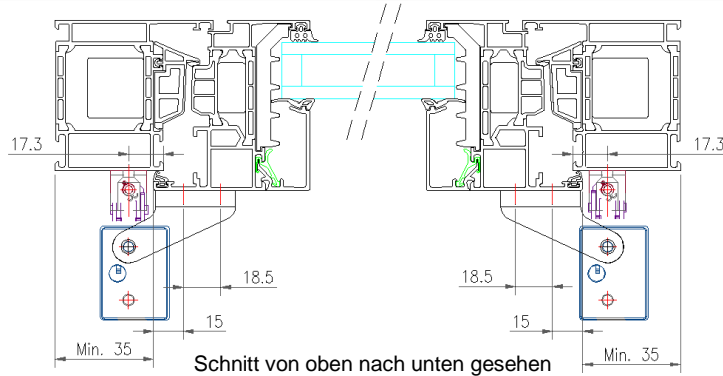
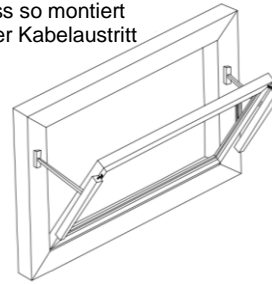
Max Belastung pro Antrieb ≤ 30Kg

4. Flügel Montage

Artikelliste:

- 2 x Antriebe WMU 836-2 xxxx
- 1 x Beschlagsätze WAZ 102 0101
- Bestehen aus:
 - 2 x Kettenbeschlag WAB 811
 - 2 x Antriebsbeschlag WAB 836P
 - 2 x Kabelkanäle

Der Antrieb muss so montiert werden, dass der Kabelaustritt oben ist.



- 400mm Hub = Min FH: 570mm & x = Min 310mm = Max Öffnungswinkel ~78°
- 600mm Hub = Min FH: 677mm & x = Min 417mm = Max Öffnungswinkel ~90°
- 800mm Hub = Min FH: 820mm & x = Min 560mm = Max Öffnungswinkel ~90°
- 1000mm Hub = Min FH: 960mm & x = Min 700mm = Max Öffnungswinkel ~90°

- 400mm Hub → Z = 269,5mm
- 600mm Hub → Z = 369,5mm
- 800mm Hub → Z = 469,5mm
- 1000mm Hub → Z = 569,5mm

Öffnungswinkel (a) = $2 \cdot \sin^{-1} \left(\frac{\text{Hub}/2}{\sqrt{(11,5)^2 + (7+x)^2}} \right) \cdot 0,5$

Belastung pro Antrieb = $\frac{\text{Flügelgewicht} \cdot \sin(a - (\tan^{-1}(57/((FH/2) + 7))) \cdot (\sqrt{(FH/2) + 7^2 + 57^2}) \cdot 0,5)}{\cos(a/2) \cdot \sqrt{(11,5)^2 + (7+x)^2} \cdot 0,5}$

Max Belastung pro Antrieb ≤ 30Kg

5. Karmmontage

Artikelliste:

2 x motorer WMU 836-2 xxxx

1 x Beslagsæt WAZ 101 0101

Bestående af:

2 x kædebeslag WAB 836E

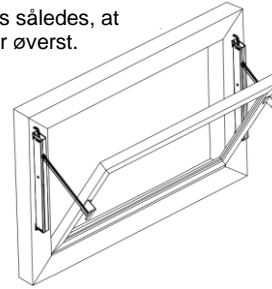
2 x motorbeslag WAB 824

2 x z-beslag WAB 825

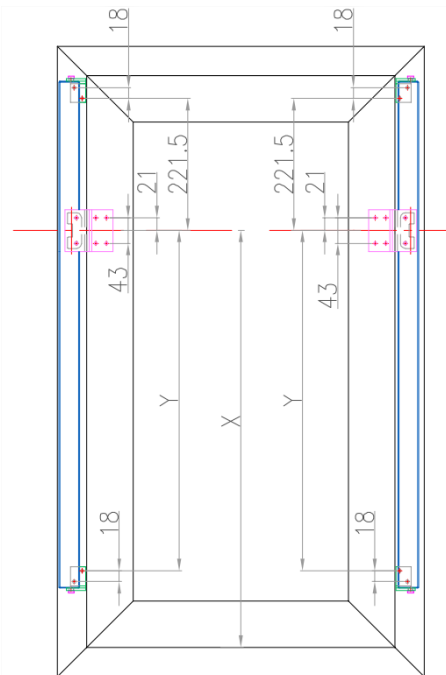
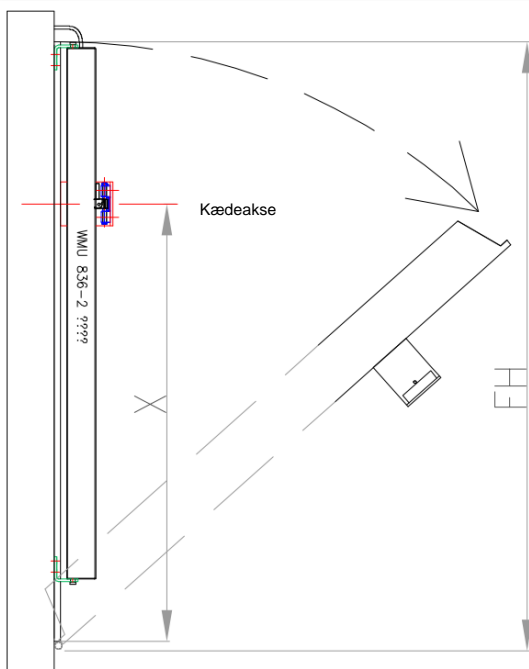
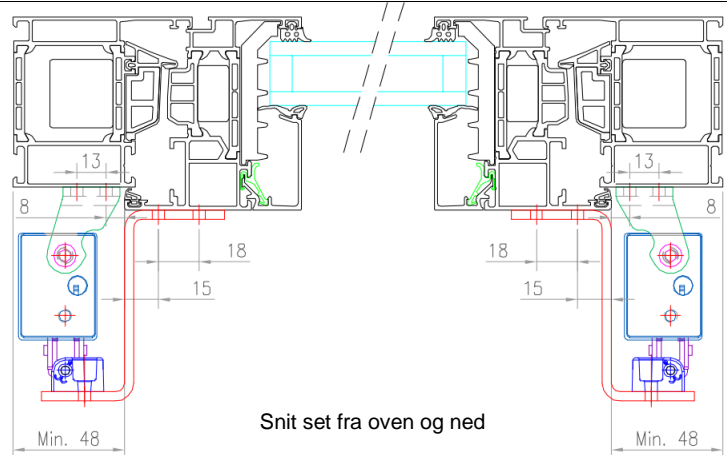
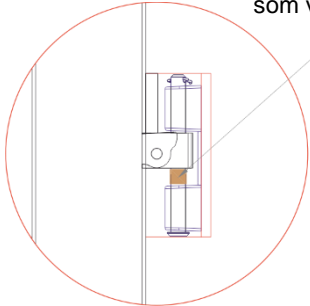
2 x kabelkanaler

2 x messing hylstre

Motoren monteres således, at kabeludtrækket er øverst.



Messing hylstre skal monteres i kædebeslaget som vist.



- 400mm slaglængde = min VH: 570mm & x = min 310mm = max åbningsvinkle ~76°
- 600mm slaglængde = min VH: 673mm & x = min 413mm = max åbningsvinkle ~90°
- 800mm slaglængde = min VH: 815mm & x = min 555mm = max åbningsvinkle ~90°
- 1000mm slaglængde = min VH: 960mm & x = min 700mm = max åbningsvinkle ~90°

- 400mm slaglængde → Y = 271,5mm
- 600mm slaglængde → Y = 371,5mm
- 800mm slaglængde → Y = 471,5mm
- 1000mm slaglængde → Y = 571,5mm

Åbningsvinkle (a) = $2 \cdot \sin^{-1} \left(\frac{\text{slaglængde}}{2} / \left((61,5)^2 + (7+x)^2 \right)^{0,5} \right)$

Belastning per motor = $\frac{\text{rammevægt} \cdot \sin(a - (\tan^{-1}(57/((VH/2) + 7))) \cdot (((VH/2) + 7)^2 + 57^2)^{0,5}}{\cos(a/2) \cdot (11,5^2 + (7+x)^2)^{0,5}}$

Max belastning per motor ≤ 30Kg

6. Rammemontage

Artikelliste:

2 x motorer WMU 836-2 xxxx

1 x beslagsæt WAZ 102 0101

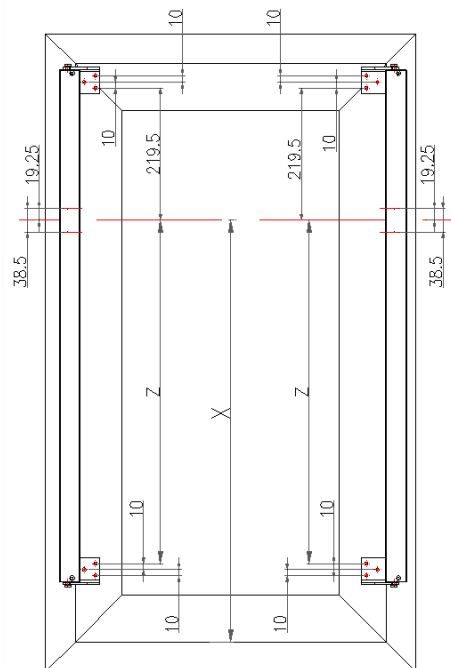
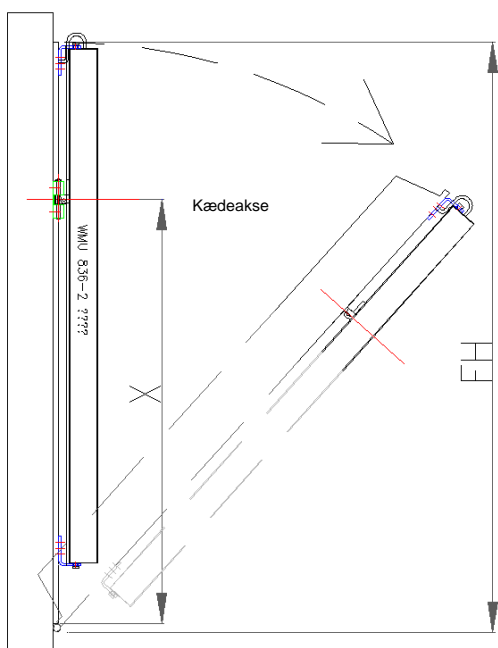
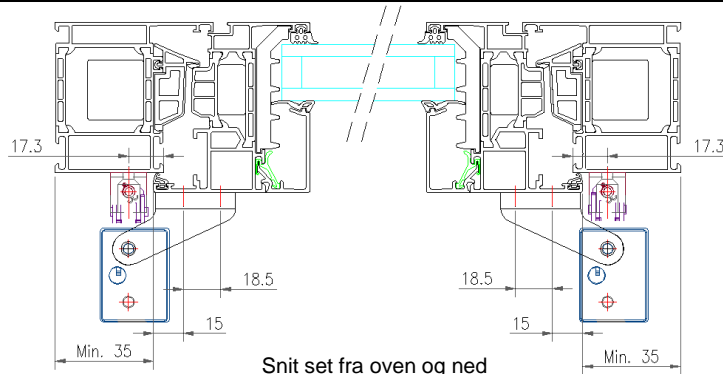
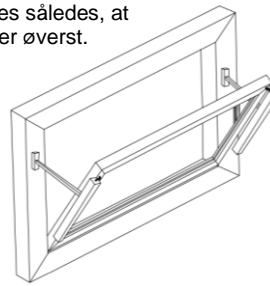
bestående af:

2 x kædebeslag WAB 811

2 x motorbeslag WAB 836P

2 x kabelkanaler

Motoren monteres således, at kabeludtrækket er øverst.



- 400mm slaglængde = min VH: 570mm & x = min 310mm = max åbningsvinkel ~78°
- 600mm slaglængde = min VH: 677mm & x = min 417mm = max åbningsvinkel ~90°
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- 1000mm slaglængde = min VH: 960mm & x = min 700mm = max åbningsvinkel ~90°

- 400mm slaglængde → Z = 269,5mm
- 600mm slaglængde → Z = 369,5mm
- 800mm slaglængde → Z = 469,5mm
- 1000mm slaglængde → Z = 569,5mm

$$\text{Åbningsvinkel (a)} = 2 \cdot \sin^{-1} \left(\frac{\text{slaglængde}/2}{\sqrt{(11,5)^2 + (7+x)^2}} \right)^{0,5}$$

$$\text{Belastning per motor} = \frac{\text{rammevægt} \cdot \sin(a - (\tan^{-1}(57/((VH/2) + 7))) \cdot (((VH/2) + 7)^2 + 57^2)^{0,5}}{\cos(a/2) \cdot (11,5^2 + (7+x)^2)^{0,5}}$$

Max belastning per motor ≤ 30Kg