



# Lindab **Roof Drainage System**

Lindab Rainline™

Technical Information



# Dimensioning

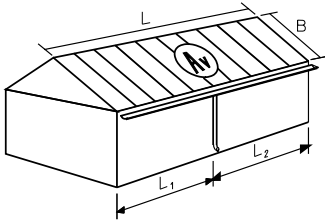
## Roof drainage

Dimensioning can be done according to Swedish Standard SS or the Advice and instructions for the code of practice, "Hus AMA, RA 08 Hus".

Dimensioning to SS gives smaller dimensions than if RA 08 Hus is used. This

is because RA 08 Hus has given some consideration to the tendency of gutters to fill up with sludge from leaves and loose material on roof cladding etc. SS compensates this by specifying a smallest fall for self-clearance of 5-7 mm/m, depend-

ing on dimensions. Diagrams and tables based on the dimensioning instructions in SS and Hus AMA are included below.



$A_v$  = True roof area

$L_1$  and  $L_2$  = Distance from building corner

### Example

Roof area  $L = 20$  m,  $B = 9$  m  $\rightarrow A_v = 180$  m<sup>2</sup>

A down pipe located 11.6 m from one end

$$\rightarrow \frac{L_1}{L_1 + L_2} = \frac{11.6}{20} = 0.58$$

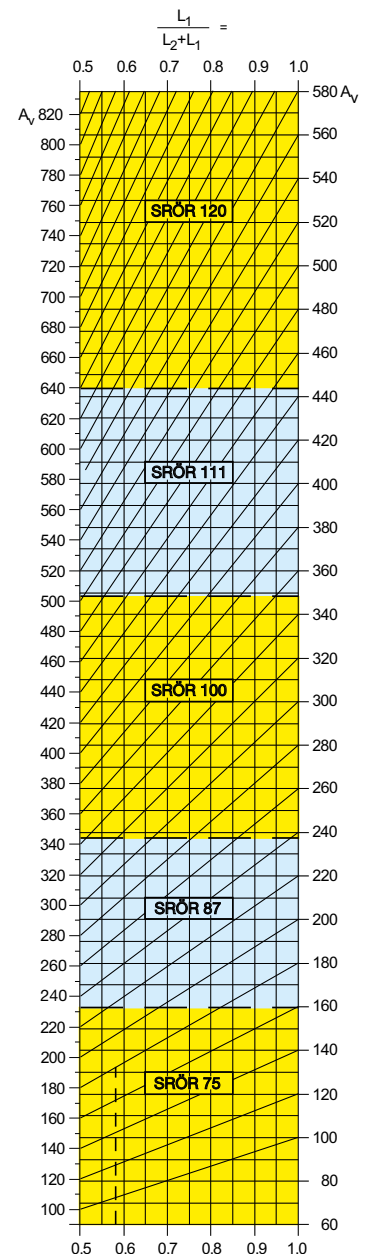
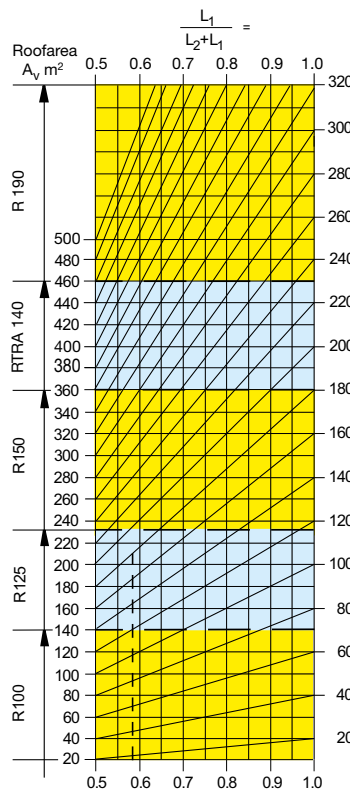
### Result

You can choose a half round gutter of R125 or larger.

The down pipe from the second diagram should then be SROR75.

## Dimensioning to SS

SS diagrams contain curves for various rain intensities. It approves the assumption that the probable rain intensity can be specified as 0.013 l / (sm<sup>2</sup>) on areas less than 10,000 m<sup>2</sup> for the whole country, which is what our diagram is based on. SS assumes that the gutter is laid with a smallest fall of 2.5 mm/m. Since SS does not cover our entire product range, the curves in SS have been extrapolated. It should be noted that the dimensioning instructions in SS can give a relationship between gutters and down pipes which does not correspond with the product standard for gutter outlets. This is because of traditional and appearance demands for size matching between gutters and down pipes.



# Technical Facts

## Rainline\*

### Colour chart

| Number | Name                | Nearest NCS | Nearest RAL |
|--------|---------------------|-------------|-------------|
| 001    | Antique white       | S 1002-G50Y | 9002        |
| 015    | Black               | S 9000-N    | 9011        |
| 015    | Black Matt          | S 9000-N    | 9011        |
| 035    | Graphite grey       | S 7502-B    | 7016        |
| 035M   | Graphite grey Matt  | S 7502-B    | 7016        |
| 044    | Anthracite metallic | -           | 9007        |
| 045    | Silver metallic     | -           | 9006        |
| 087    | Dark grey           | S 7005-B20G | 7043        |
| 387    | Coffee brown        | S 8502-Y    | 8019        |
| 434    | Brown               | S 7010-Y70R | 8017        |
| 434M   | Brown Matt          | S 7010-Y70R | 8017        |
| 742    | Tile red            | S 4040-Y80R | 8004        |
| 758    | Dark red            | S 5040-Y80R | 3009        |



*Hard to choose?* With Lindab Rainline RAL you can get your new roof drainage system in a variety of 160 different RAL colors. This gives you great opportunities. Contact your Lindab sales team for more information.

All colour coated roof drainage products from Lindab are coated with a zinc layer of 275 g/m<sup>2</sup>.

### Aluminium

| Number | Name          | Nearest NCS | Nearest RAL |
|--------|---------------|-------------|-------------|
| 001    | Antique white | S 1002-G50Y | 9002        |
| 015    | Black         | S 9000-N    | 9011        |
| 035    | Graphite grey | S 7502-B    | 7016        |
| 045    | Silver Matt   | -           | 9006        |

### Other material

|    |                |   |   |
|----|----------------|---|---|
| ZM | Zinc-magnesium | - | - |
| CU | Copper         | - | - |

\* All colors are not available in all dimensions and combinations.

# Technical Facts

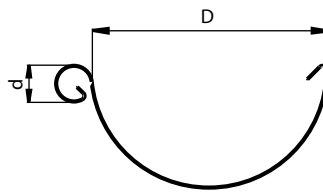
## Gutter with accessories

### R Gutter

| Dim | D mm | d mm | Area* mm <sup>2</sup> | Area** mm <sup>2</sup> |
|-----|------|------|-----------------------|------------------------|
| 100 | 107  | 17   | 4500                  | 4100                   |
| 125 | 123  | 17   | 5900                  | 5500                   |
| 150 | 155  | 17   | 9400                  | 8900                   |
| 190 | 192  | 22   | 17300                 | 16200                  |

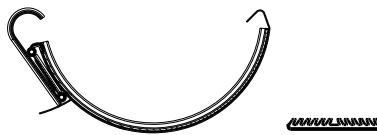
\* Sectional area

\*\* Water carrying area (6 mm lower front edge, 190 gutter 11 mm)



### RSK Gutter joint

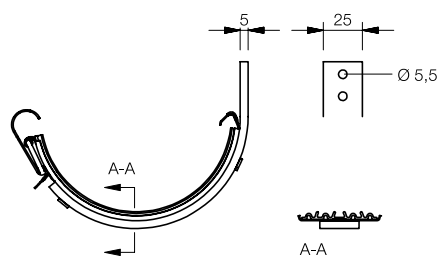
| Dim |
|-----|
| 100 |
| 125 |
| 150 |



### RSKR Gutter joint

| Dim |
|-----|
| 125 |
| 150 |

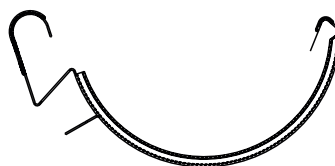
To SS-EN 1462 Class A-H



### ARSK Gutter joint aluminium

| Dim |
|-----|
| 125 |
| 150 |

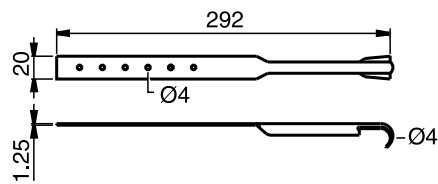
To SS-EN 1462 Class A-H



# Technical Facts

## Gutter with accessories

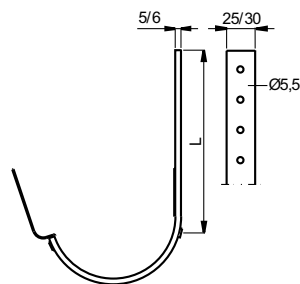
### STAG Stay strap



### K33/K24/K18/K07 Bracket

| Dim | L mm |     |     |     |
|-----|------|-----|-----|-----|
|     | K33  | K24 | K18 | K07 |
| 100 |      | 180 | 70  |     |
| 125 |      | 180 | 70  |     |
| 150 |      | 180 | 70  |     |
| 190 | 334  | 244 |     | 74  |

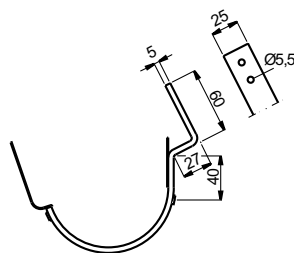
To SS-EN 1462 Class A-H



### K11 Bracket for 27° roof pitch

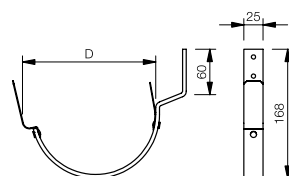
| Dim |
|-----|
| 100 |
| 125 |
| 150 |

To SS-EN 1462 Class A-H



### K11P 150 Bracket for Sandwich panels

| Dim |
|-----|
| 150 |



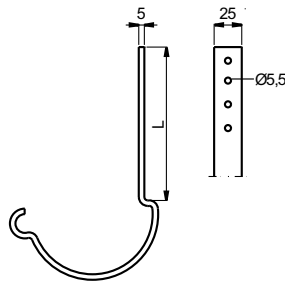
# Technical Facts

## Gutter with accessories

### KFL35/KFL/KFM Bracket

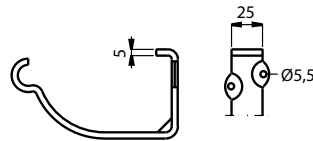
| Dim | L mm  |     |     |
|-----|-------|-----|-----|
|     | KFL35 | KFL | KFM |
| 100 |       | 196 |     |
| 125 | 336   | 196 | 146 |
| 150 | 336   | 196 | 146 |

To SS-EN 1462 Class A-H



### KFK Fascia Bracket

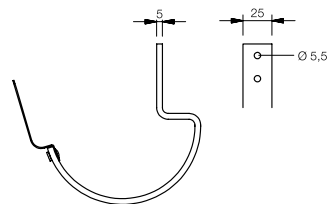
| Dim |
|-----|
| 100 |
| 125 |
| 150 |
| 190 |



### KRD Bracket

| Dim |
|-----|
| 125 |

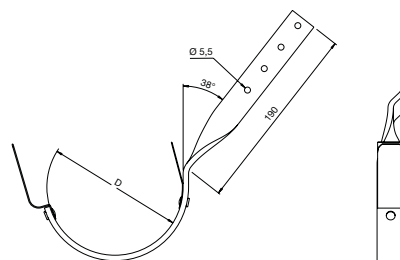
To SS-EN 1462 Class A-H



### KRT Bracket

| Dim |
|-----|
| 125 |
| 150 |

To SS-EN 1462 Class A-H



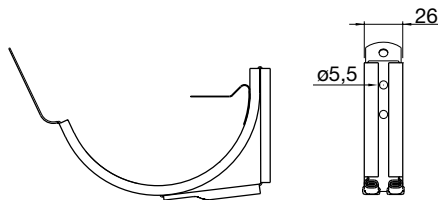
# Technical Facts

## Gutter with accessories

### SKK Bracket

|     |  |
|-----|--|
| Dim |  |
| 100 |  |
| 125 |  |
| 150 |  |

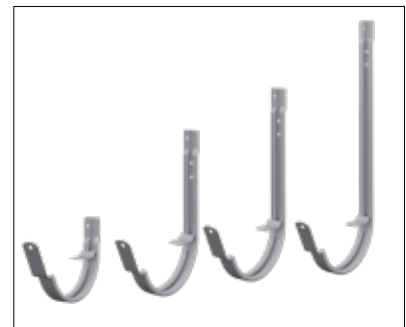
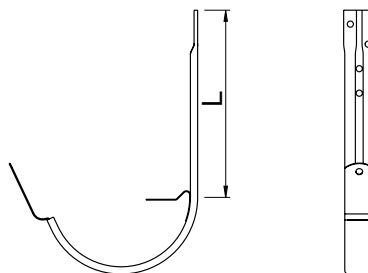
To SS-EN 1462 Class A-H



### SKK05/SKK16/SKK21/SKK30 Bracket

|     |       |       |       |       |
|-----|-------|-------|-------|-------|
| Dim | L mm  |       |       |       |
|     | SKK05 | SKK16 | SKK21 | SKK30 |
| 100 | 70    | 160   | 210   | 300   |
| 125 | 70    | 160   | 210   | 300   |
| 150 | 70    | 160   | 210   | 300   |

To SS-EN 1462 Class A-H

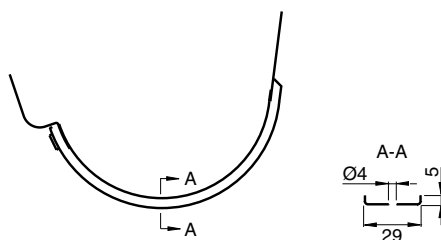


### KBO Bracket bender



### TB Cover brace

|     |  |
|-----|--|
| Dim |  |
| 100 |  |
| 125 |  |
| 150 |  |

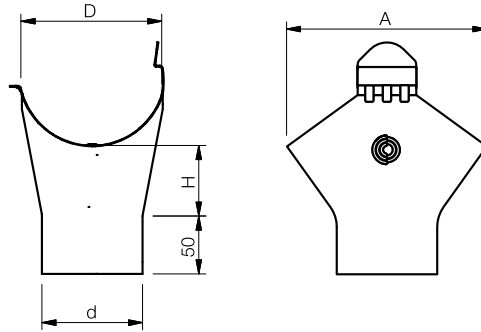


# Technical Facts

## Gutter with accessories

### OMV Gutter outlet

| Dim<br>D/d | A<br>mm | H<br>mm |
|------------|---------|---------|
| 100/75     | 156     | 56      |
| 100/87     | 156     | 48      |
| 125/75     | 174     | 67      |
| 125/87     | 174     | 59      |
| 125/100    | 174     | 50      |
| 150/87     | 212     | 82      |
| 150/100    | 212     | 73      |
| 150/111    | 212     | 66      |
| 150/120    | 212     | 60      |



All gutter outlets in Cupper (CU) will be delivered as gutter outlet OK.

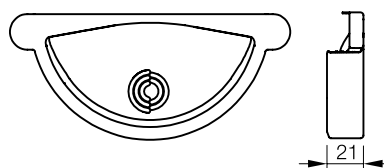
### OK Gutter outlet

| Dim<br>D/d | A<br>mm | H<br>mm |
|------------|---------|---------|
| 150/75     | 194     | 55      |
| 190/100    | 180     | 62      |
| 190/120    | 206     | 62      |



### RG Stop end

| Dim |
|-----|
| 100 |
| 125 |
| 150 |

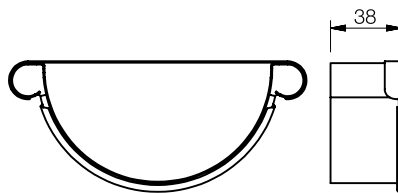


# Technical Facts

## Gutter with accessories

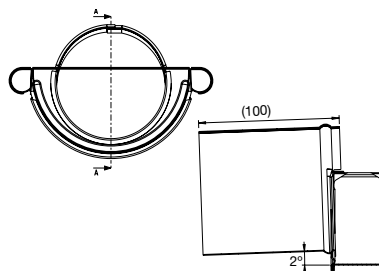
### RGU Stop end

|     |
|-----|
| Dim |
| 100 |
| 125 |
| 150 |



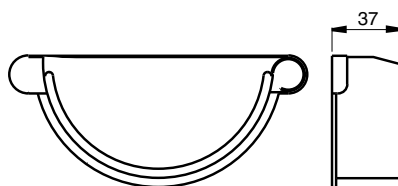
### RGUT Stop end with nozzle

|        |
|--------|
| Dim    |
| 125/75 |



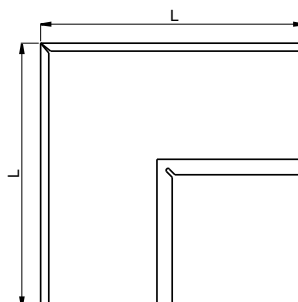
### RGV/RGH Stop end

|     |
|-----|
| Dim |
| 190 |



### RVI Gutter angle, inner

| Dim | L mm |
|-----|------|
| 100 | 400  |
| 125 | 300  |
| 150 | 300  |
| 190 | 500  |

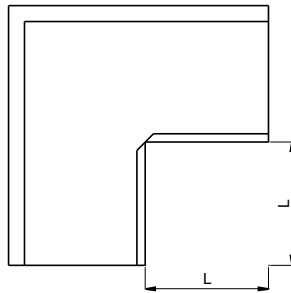


# Technical Facts

## Gutter with accessories

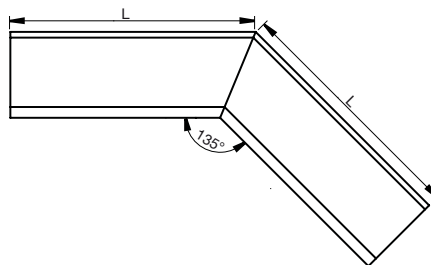
### RVY Gutter angle, outer

| Dim | L mm |
|-----|------|
| 100 | 295  |
| 125 | 160  |
| 150 | 130  |
| 190 | 285  |



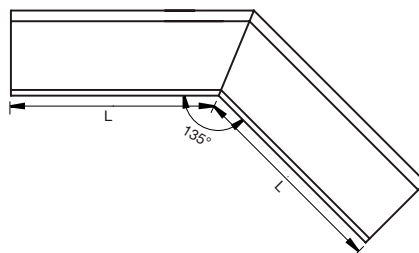
### RVI135 Gutter angle 135°, inner

| Dim | L mm |
|-----|------|
| 100 | 300  |
| 125 | 300  |
| 150 | 300  |



### RVY135 Gutter angle 135°, outer

| Dim | L mm |
|-----|------|
| 100 | 250  |
| 125 | 240  |
| 150 | 230  |

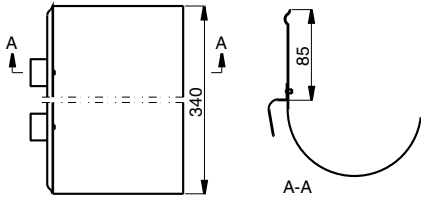


# Technical Facts

## Gutter with accessories

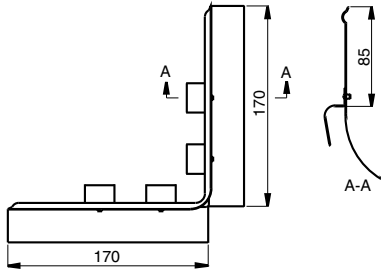
### OSKR Overflow protection, straight

|     |
|-----|
| Dim |
| 125 |
| 150 |



### OSK Overflow protection

All dimensions



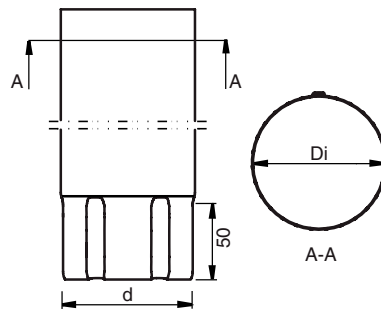
# Technical Facts

## Downpipe with accessories

### SROR Down pipe

| Dim  | Area            |
|------|-----------------|
| Di/d | mm <sup>2</sup> |
| 75   | 4400            |
| 87   | 5900            |
| 100  | 7800            |
| 111  | 9700            |
| 120  | 11300           |

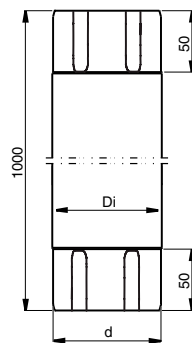
To SS-EN 612 Class A-X



### MST Intermediate pipe

| Dim |
|-----|
| 75  |
| 87  |
| 100 |
| 111 |
| 120 |

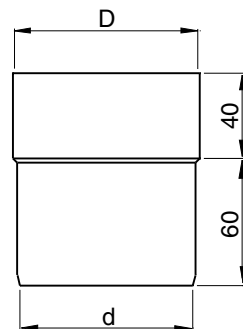
Cut into suitable pieces



### SRORM Pipe connector

| Dim |
|-----|
| D/d |
| 75  |
| 87  |
| 100 |

SRORM fits both inside and outside the downpipe.

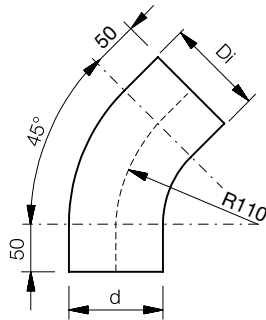


# Technical Facts

## Downpipe with accessories

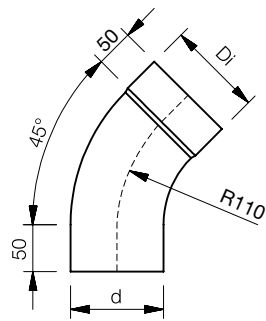
### BK45 Bends 45°

|      |
|------|
| Dim  |
| Di/d |
| 75   |
| 87   |
| 100  |



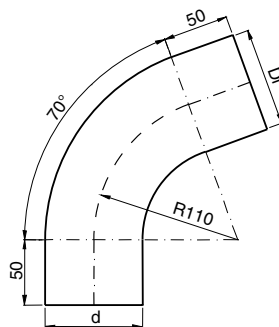
### BM45 Bends 45°

|      |
|------|
| Dim  |
| Di/d |
| 75   |
| 87   |
| 100  |



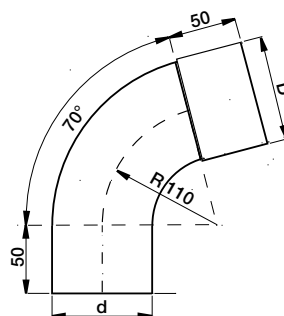
### BK70 Bends 70°

|      |
|------|
| Dim  |
| Di/d |
| 75   |
| 87   |
| 100  |
| 111  |
| 120  |



### BM70 Bends 70°

|     |
|-----|
| Dim |
| D/d |
| 111 |
| 120 |

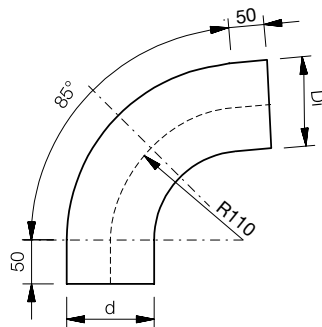


# Technical Facts

## Downpipe with accessories

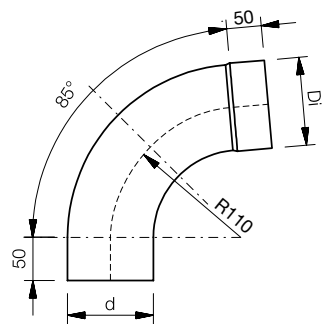
### BK85 Bends 85°

|      |  |
|------|--|
| Dim  |  |
| Di/d |  |
| 75   |  |
| 87   |  |
| 100  |  |



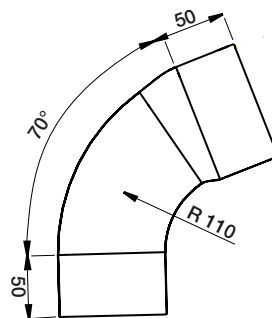
### BM85 Bends 85°

|      |  |
|------|--|
| Dim  |  |
| Di/d |  |
| 75   |  |
| 87   |  |
| 100  |  |



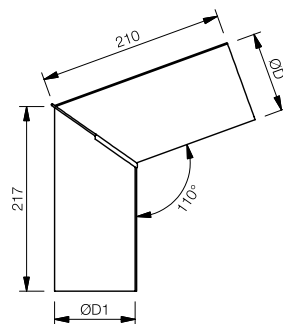
### BKM70 Bends, conical 70°

|      |  |
|------|--|
| Dim  |  |
| Di/d |  |
| 75   |  |
| 87   |  |
| 100  |  |



### BKS Bends, sharp 70°

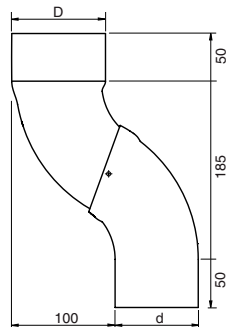
|     |  |
|-----|--|
| Dim |  |
| D/d |  |
| 75  |  |
| 87  |  |
| 100 |  |
| 111 |  |
| 120 |  |



# Technical Facts

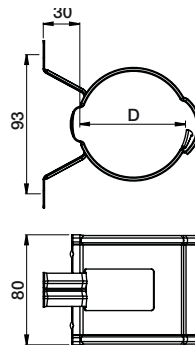
## Downpipe with accessories

|     |     |
|-----|-----|
| Dim |     |
| D/d |     |
|     | 75  |
|     | 87  |
|     | 100 |



### SSVU Pipe holder

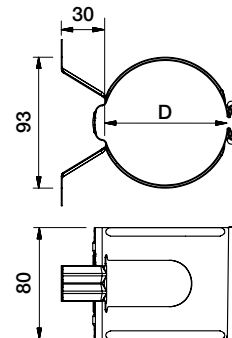
|     |     |
|-----|-----|
| Dim |     |
| D   |     |
|     | 75  |
|     | 87  |
|     | 100 |
|     | 111 |
|     | 120 |



*With wedge locking cupper (CU) design.*

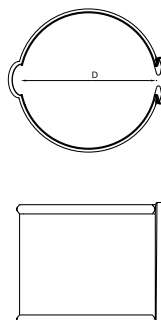
### SVHA Pipe holder

|     |     |
|-----|-----|
| Dim |     |
| D   |     |
|     | 75  |
|     | 87  |
|     | 100 |
|     | 111 |
|     | 120 |



### SV Pipe holder with spike

|     |     |
|-----|-----|
| Dim |     |
| D   |     |
|     | 75  |
|     | 87  |
|     | 100 |
|     | 111 |
|     | 120 |

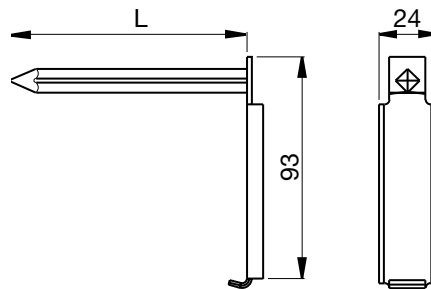


# Technical Facts

## Downpipe with accessories

### SST Spike

| L<br>mm |
|---------|
| 125     |
| 175     |
| 250     |
| 300     |



### SSC Screw kit

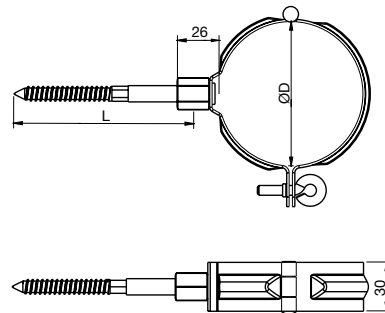
| Distance<br>from wall (mm) | Plug | Screw | Distances* |
|----------------------------|------|-------|------------|
| 25                         | 1    | 1     | 1          |
| 55                         | 1    | 1     | 2          |
| 85                         | 1    | 1     | 3          |
| 115                        | 1    | 1     | 4          |

\*Distances in light grey HD polythene



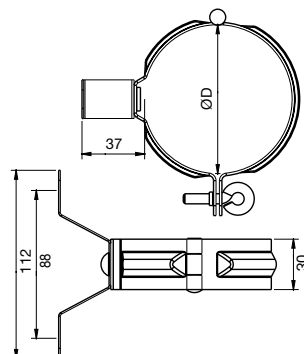
### SHFS Pipe holder with screw

| Dim<br>D | L<br>mm |     |
|----------|---------|-----|
| 75       | 100     | 140 |
| 87       | 100     | 140 |
| 100      | 100     | 140 |



### SHFB Pipe holder with legs

| Dim<br>D |
|----------|
| 75       |
| 87       |
| 100      |

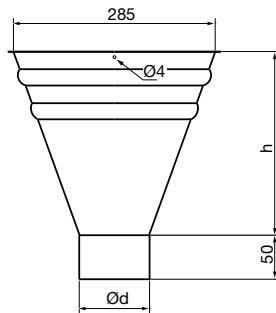


# Technical Facts

## Downpipe with accessories

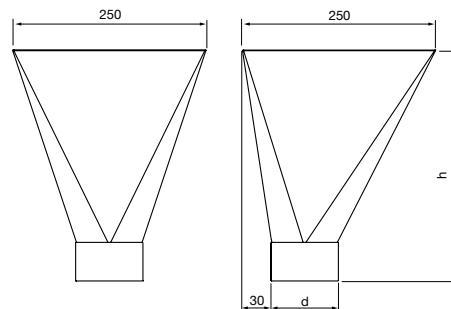
### VATK Hopper

| Dim | h   |
|-----|-----|
| 87  | 270 |
| 100 | 253 |
| 111 | 239 |
| 120 | 227 |



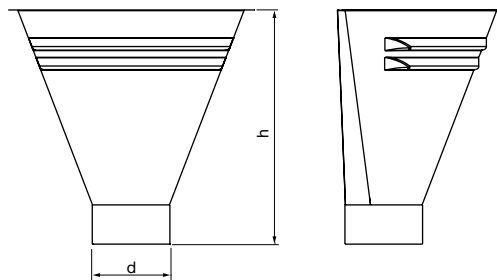
### VATKL Square hopper

| Dim | h   |
|-----|-----|
| 75  | 305 |
| 87  | 230 |
| 100 | 200 |



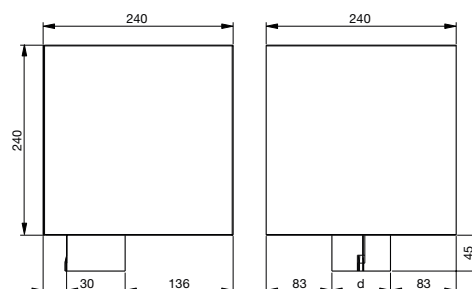
### VATKS Halfround hopper

| Dim | h   |
|-----|-----|
| 87  | 270 |
| 100 | 253 |



### VATKF Square hopper

| Dim |
|-----|
| 75  |
| 87  |
| 100 |



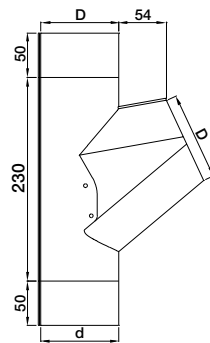
# Technical Facts

## Downpipe with accessories

### GROR Adjustable branch

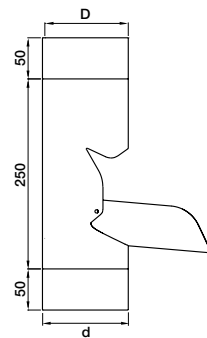
|     |  |
|-----|--|
| Dim |  |
| 75  |  |
| 87  |  |
| 100 |  |
| 111 |  |
| 120 |  |

The product is adjustable between 50 and 80 degrees in dim 75, 87 and 100, dim 111 and 120 are welded and not adjustable.



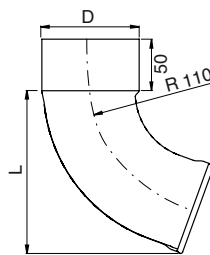
### FUTK Adjustable shoe

|     |  |
|-----|--|
| Dim |  |
| 75  |  |
| 87  |  |
| 100 |  |



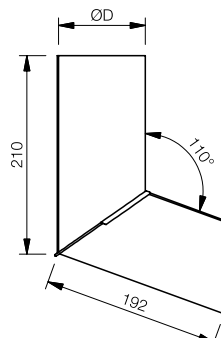
### UTK Shoe

| Dim | L<br>mm |
|-----|---------|
| 75  | 151     |
| 87  | 157     |
| 100 | 113     |
| 111 | 169     |
| 120 | 173     |



### UTKS Shoe, sharp

|     |  |
|-----|--|
| Dim |  |
| 75  |  |
| 87  |  |
| 100 |  |
| 111 |  |
| 120 |  |



# Technical Facts

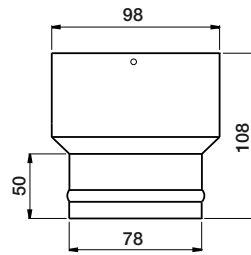
## Downpipe with accessories

### SLAS

Connector for 80 mm hose.

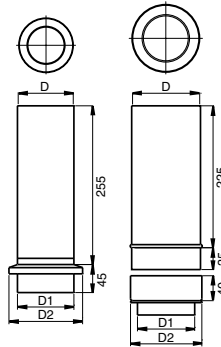
Dim

87



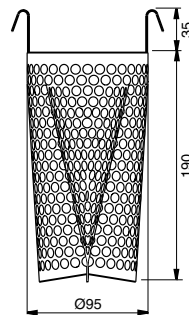
### BUTK Drain shoe

| Dim | D1<br>mm | D2<br>mm |
|-----|----------|----------|
| 75  | 81       | 115      |
| 87  | 93       | 115      |
| 100 | 93       | 115      |
| 111 | 93       | 119      |
| 120 | 93       | 125      |



### DVSIL Leaf filter

Stainless steel.



### PRT Sliding pipe

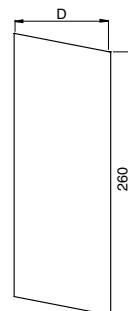
Dim

75

87

100

111



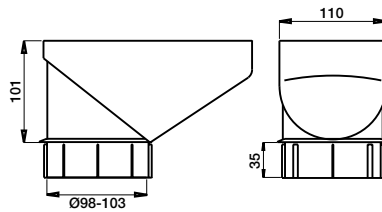
The sliding pipe fits outside the downpipe.

# Technical Facts

## Downpipe with accessories

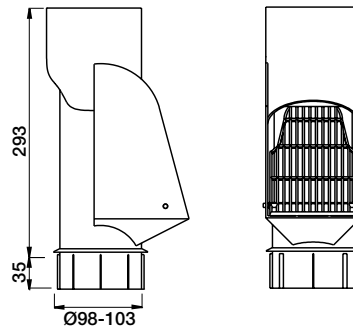
### RT Drain trap (HD polythene)

Leaf filter in HD polythene for downpipes.  
The lower section fits standard ground pipes/junction pipes.



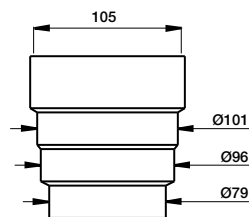
### SLS Self cleaning leaf trap

Self cleaning leaf filter in HD polythene for downpipes. The lower section fits standard ground pipes.

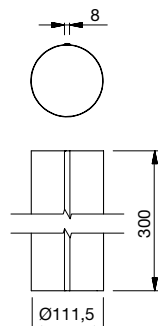


### MRT Drain connector

Connector for HD polythene filters.  
For connection to ground pipes with dimensions other than standard.



### IMR Lining of the cursor



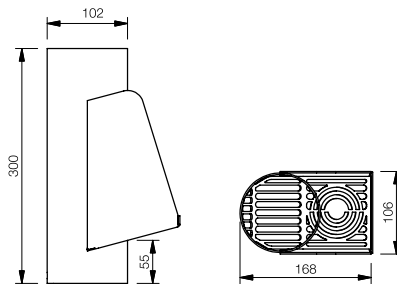
# Technical Facts

## Reinforced downpipe with accessories

### VANSLS 300

300 mm reinforced self-cleaning leaf filter.

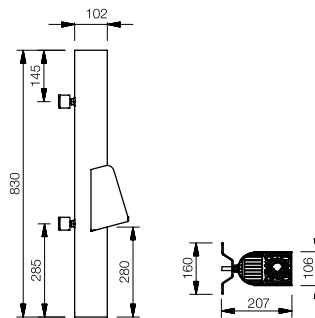
|                   | Steel | Stainless |
|-------------------|-------|-----------|
| Outer dim. (Ø mm) | 101.6 | 101.6     |
| Thickness         | 2.0   | 1.5       |
| Weight (kg)       | 2.1   | 1.8       |



### VANSLS 850

830 mm reinforced downpipe with self-cleaning leaf filter for buildings with plinth.

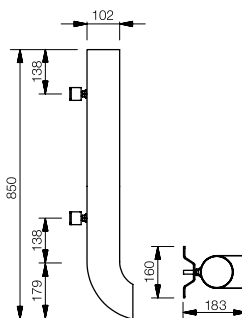
|                   | Steel | Stainless |
|-------------------|-------|-----------|
| Outer dim. (Ø mm) | 101.6 | 101.6     |
| Thickness         | 2.0   | 1.5       |
| Weight (kg)       | 5.3   | 4.1       |



### VANUTK 850

850 mm reinforced downpipe with shoe.

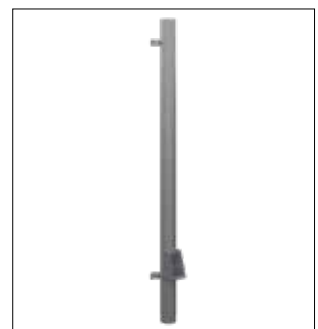
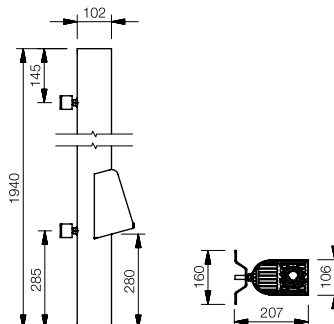
|                   | Steel | Stainless |
|-------------------|-------|-----------|
| Outer dim. (Ø mm) | 101.6 | 101.6     |
| Thickness         | 2.0   | 1.5       |
| Weight (kg)       | 5.3   | 4.0       |



### VANSLS 2000

2m reinforced downpipe with self-cleaning leaf filter at the bottom.

|                   | Steel | Stainless |
|-------------------|-------|-----------|
| Outer dim. (Ø mm) | 101.6 | 101.6     |
| Thickness         | 2.0   | 1.5       |
| Weight (kg)       | 10.9  | 8.5       |



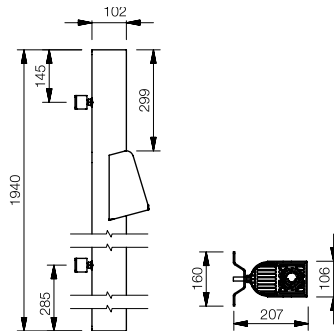
# Technical Facts

## Reinforced downpipe with accessories

### VANSLST 2000

2m reinforced downpipe with self-cleaning leaf filter on top. Excellent for use in kindergarten and junior school environments.

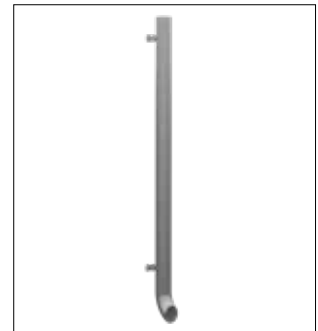
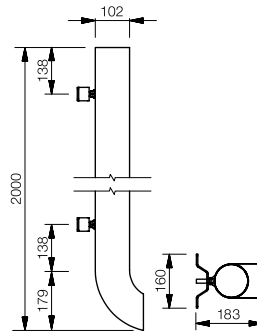
|                   | Steel | Stainless |
|-------------------|-------|-----------|
| Outer dim. (Ø mm) | 101.6 | 101.6     |
| Thickness         | 2.0   | 1.5       |
| Weight (kg)       | 10.9  | 8.5       |



### VANUTK 2000

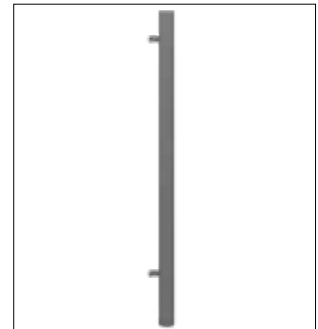
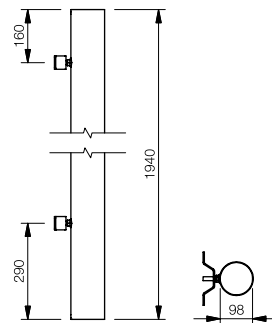
2m reinforced downpipe with shoe.

|                   | Steel | Stainless |
|-------------------|-------|-----------|
| Outer dim. (Ø mm) | 101.6 | 101.6     |
| Thickness         | 2.0   | 1.5       |
| Weight (kg)       | 11.8  | 8.0       |



### VANSTD 2000

|                   | Steel | Stainless |
|-------------------|-------|-----------|
| Outer dim. (Ø mm) | 101.6 | 101.6     |
| Thickness         | 2.0   | 1.5       |
| Weight (kg)       | 10.5  | 8.2       |



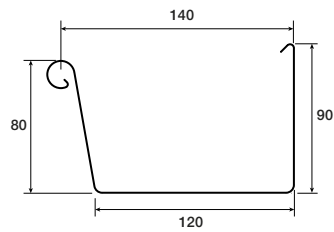
# Technical Facts

## Rectangular gutter with accessories

### RTRA Gutter

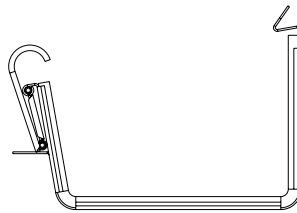
| Dim | Area*<br>mm <sup>2</sup> |
|-----|--------------------------|
| 140 | 10 000                   |

\* Water carrying area.



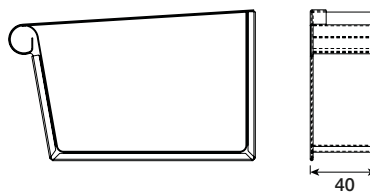
### RTSK Gutter joint

| Dim |
|-----|
| 140 |



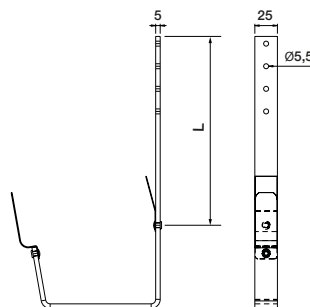
### RTGV/RTGH Stop end

| Dim |
|-----|
| 140 |



### RTK07/RTK21 Bracket

| Dim | L mm  |       |
|-----|-------|-------|
|     | RTK07 | RTK21 |
| 140 | 70    | 210   |

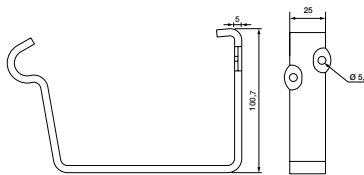


# Technical Facts

## Rectangular gutter with accessories

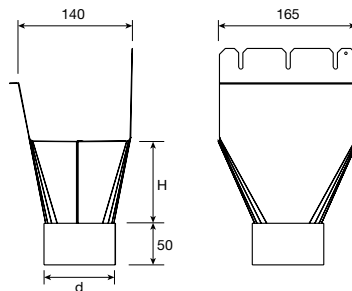
### RTKFK Bracket

|     |  |
|-----|--|
| Dim |  |
| 140 |  |



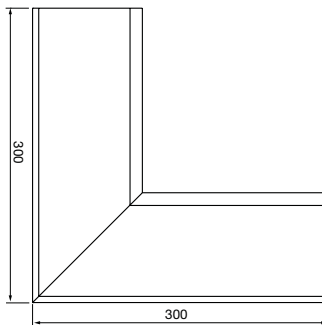
### RTOK Gutter outlet

| Dim     | H  |
|---------|----|
| D/d     | mm |
| 140/87  | 95 |
| 140/100 | 85 |
| 140/111 | 75 |



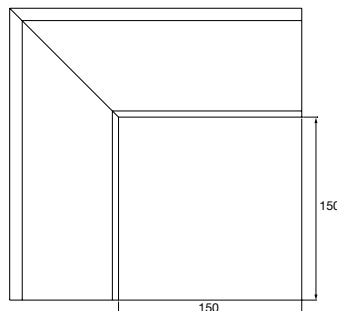
### RTVI Gutter angle, inner

|     |  |
|-----|--|
| Dim |  |
| 140 |  |



### RTVY Gutter angle, outer

|     |  |
|-----|--|
| Dim |  |
| 140 |  |



# Technical Facts

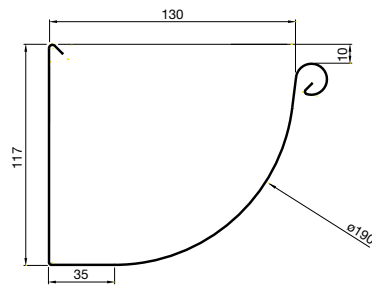
## Quarter round gutter with accessories

### KVRA Gutter

| Dim | Area*           | Area**          |
|-----|-----------------|-----------------|
|     | mm <sup>2</sup> | mm <sup>2</sup> |
| 130 | 13 269          | 11 969          |

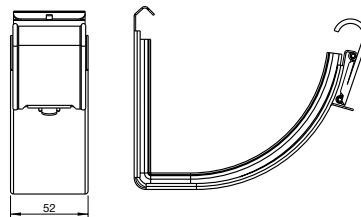
\* Sectional area

\*\* Water carrying area (10 mm lower front edge)



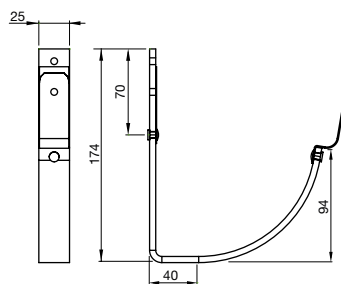
### KVSK Gutter joint

| Dim |
|-----|
| 130 |



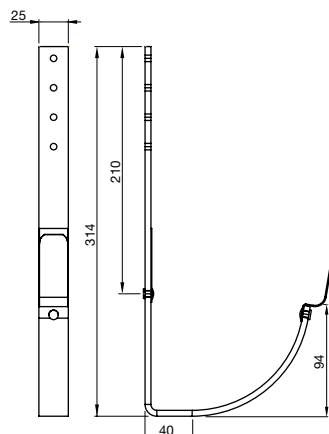
### KVK07 Bracket, short

| Dim |
|-----|
| 130 |



### KVK21 Bracket, long

| Dim |
|-----|
| 130 |

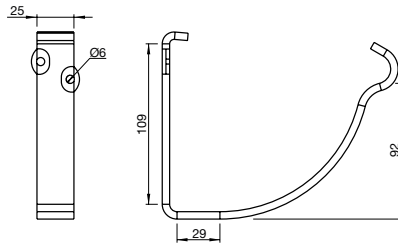


# Technical Facts

## Quarter round gutter with accessories

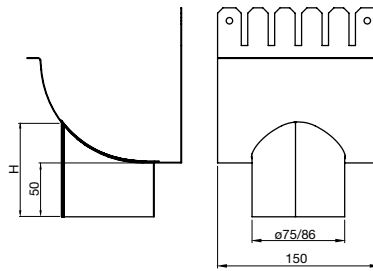
### KVFK Bracket, short

|     |  |
|-----|--|
| Dim |  |
| 130 |  |



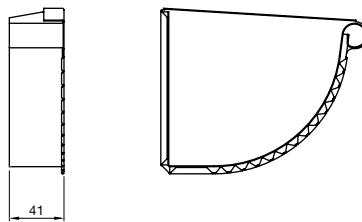
### KVTP Gutter outlet

| Dim    | H  |
|--------|----|
| D/d    | mm |
| 130/87 | 88 |
| 130/75 | 75 |



### KVGV/KVGH Stop end

|     |  |
|-----|--|
| Dim |  |
| 130 |  |



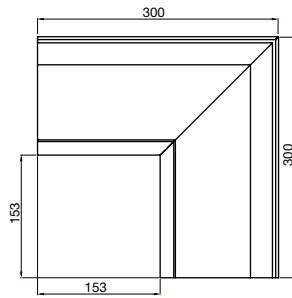
# Technical Facts

## Quarter round gutter with accessories

### KWVI Gutter angle, inner

Dim

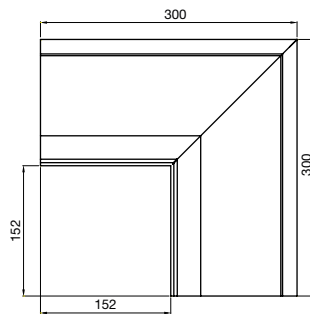
130



### KVYV Gutter angle, outer

Dim

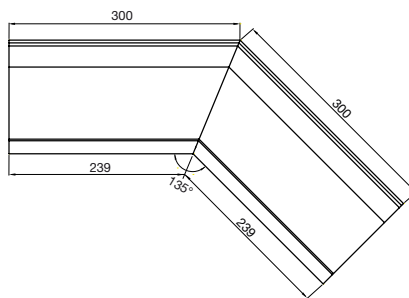
130



### KWVI Gutter angle, inner 135°

Dim

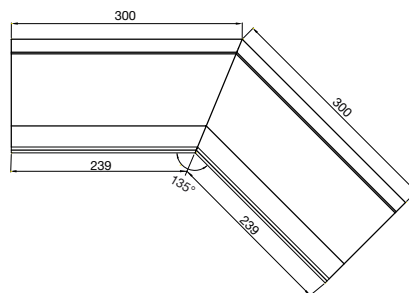
130



### KVYV Gutter angle, outer 135°

Dim

130



# Technical Facts

## Accessories

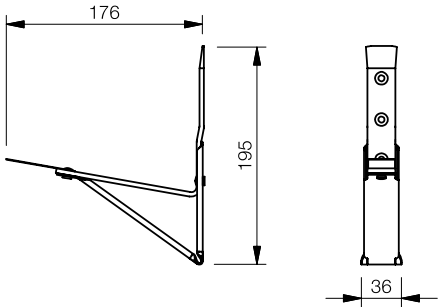
### STIFT Touch up paint

Touch up paint to fix the small scratch or to cover up cut ends, with application brush.



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### FRK Gutter hook











Most of us spend the majority of our time indoors. Indoor climate is crucial to how we feel, how productive we are and if we stay healthy.

We at Lindab have therefore made it our most important objective to contribute to an indoor climate that improves people's lives. We do this by developing energy-efficient ventilation solutions and durable building products. We also aim to contribute to a better climate for our planet by working in a way that is sustainable for both people and the environment.

[Lindab | For a better climate](#)