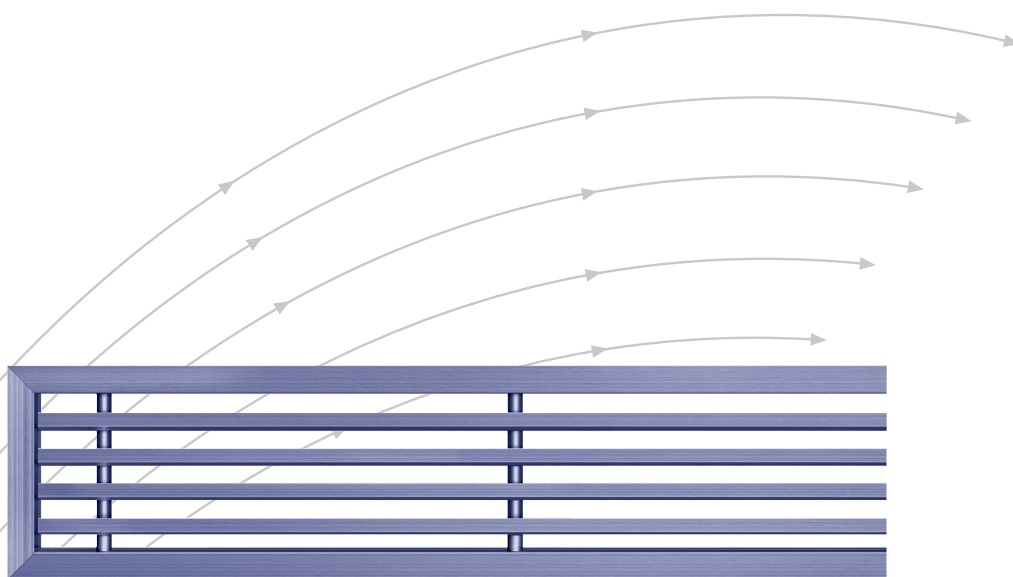


# Linear grilles

Type LG



**TROX<sup>®</sup> TECHNIK**



The art of handling air

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Linear grilles of light metal are very attractive air terminals. They are not designed for **load bearing** functions.

## Application

LG are suitable for use as air supply or exhaust grilles in ventilation ducts, as cover grilles for window ledges, as supply or recirculation grilles for induction appliances.

## Realisation

Linear grilles consist of an outer frame and a fixed blades grating of colourless anodised light metal. The dampers consist of steel frames with light metal opposed blades.

## Safety instructions

### CAUTION!

**Risk of injury from sharp edges and corners, ridges and thin-walled sheet metal parts!**

- Proceed carefully with all work.
- Wear protective gloves, safety shoes and protective helmet.

### WARNING!

**Danger from incorrect use. Misuse of the product may lead to dangerous situations.**

The product must not be used:

- in areas subject to explosion hazards;
- in the open air without sufficient protection against weather effects;
- in atmospheres that may have a damaging and/or corrosive effect on the product due to scheduled or unscheduled chemical reactions.

### CAUTION!

**Damage to the product due to improper handling. Check the device for damage and contamination prior to operation!**

Improper handling may lead to considerable material damage of the product.

- Do not use any acid or abrasive cleaning agents.
- Adhesives from sticky tape may lead to colour damage.
- Excessive moisture may lead to colour damage and corrosion.
- Use only cleaning agents, greases and oils that are expressly specified.

## Rapid selection (Type:....NT)

### Preferential sizes

Nominal width B	Nominal height																		
	ZL			H			AL			ZL			H			AL			
	[mm]	[m <sup>3</sup> /h]	[mm]	[m <sup>3</sup> /h]	[mm]	[m <sup>3</sup> /h]	[mm]	[m <sup>3</sup> /h]	[mm]	[m <sup>3</sup> /h]	[mm]	[m <sup>3</sup> /h]	[mm]	[m <sup>3</sup> /h]	[mm]	[m <sup>3</sup> /h]	[mm]	[m <sup>3</sup> /h]	
400	98	57	147	184	107	276	270	157	405	356	207	534							
500	122	57	183	230	107	345	337	157	505	445	207	667							
600	147	57	220	276	107	414	405	157	607	534	207	801							
750	183	57	274	345	107	517	506	157	759	667	207	1000							
1000	245	57	367	460	107	690	675	157	1012	890	207	1335							
1250	306	57	459	575	107	862	843	157	1265	1125	207	1687							

### Base: Directly flowing resp. flowing off

ZL = supply air,  $v_{\text{eff}} = 2.0 \text{ m/s}$ ,  $\Delta p_s = 4 \text{ Pa}$   
 AL = exhaust air,  $v_{\text{eff}} = 3.0 \text{ m/s}$ ,  $\Delta p_s = 7.5 \text{ Pa}$   
 $L_w$  for nominal dimension 600 x 107 mm  
 $L_{wZL} = 20 \text{ dB(A)}$ ,  $L_{wAL} = 24 \text{ dB(A)}$

### Legend

$v_{\text{eff}}$  = velocity of effective air  
 $\Delta p_s$  = static pressure drop  
 $L_w$  = sound power level

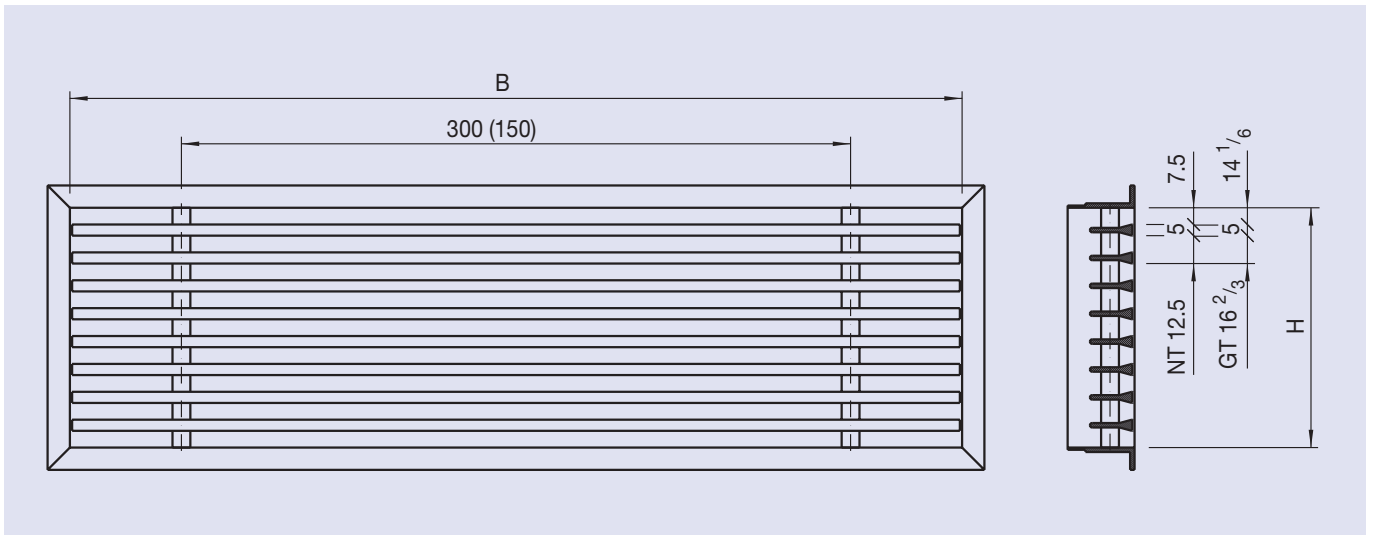
## Dimensions

B = nominal length x H = nominal height = inside frame dimensions

Free cross-section

Type ..... NT = ~ 63%

Type ..... GT = ~ 75%



## Preferential sizes

Type	Nominal width B [mm]						Nominal height H [mm]			
NT	400	500	600	750	1000	1250	57	107	157	207
GT <sup>1)</sup>	400	500	600	750	1000	1250	50	100	150	200

1) without opposed blade damper

## Special sizes

Linear grilles are manufactured in every desired nominal length B. However, if B exceeds 2000 mm, they are supplied as partial segments. Minimum length = 200 mm.

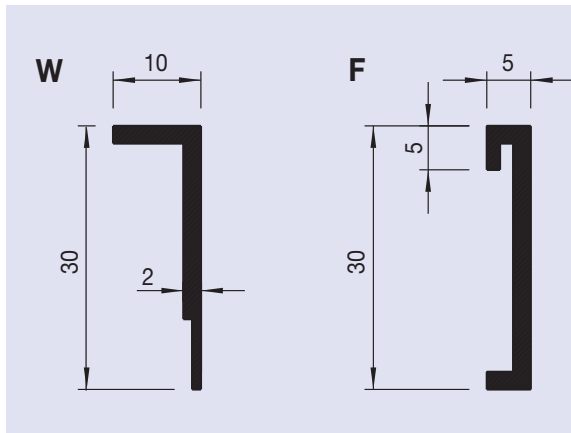
NT	H [mm]	20	32	45	<b>57</b>	70	82	95	<b>107</b>	120	132	145	<b>157</b>	170	182	195	<b>207</b>	etc
	Numbers of blades	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

GT	H [mm]	33.3	<b>50</b>	66.6	83.3	<b>100</b>	116.6	133.3	<b>150</b>	166.6	183.3	<b>200</b>	etc
	Numbers of blades	1	2	3	4	5	6	7	8	9	10	11	

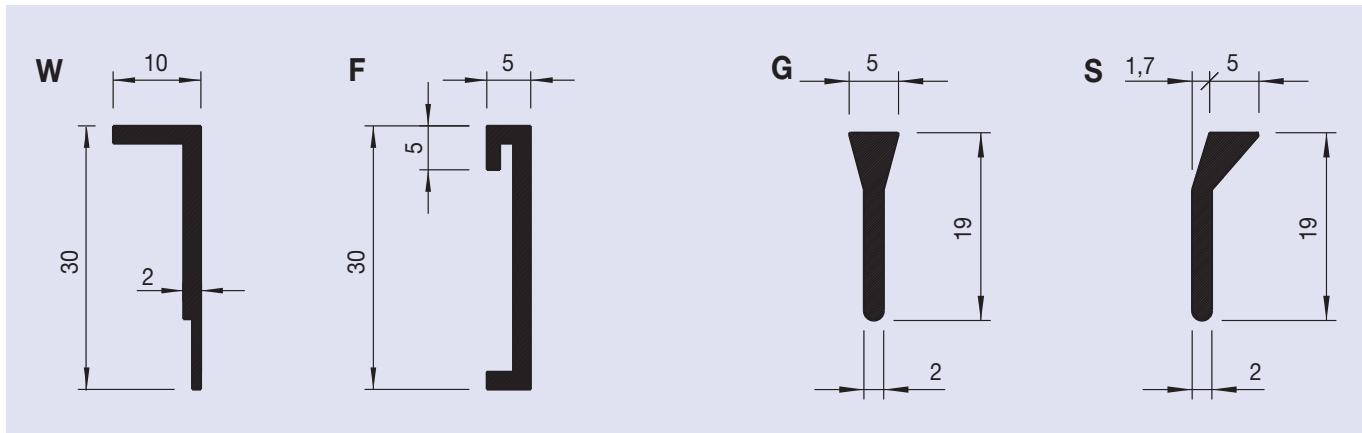
Technical specifications see  
'Dimensioning LG and BG L-03-3-01e

# Dimensions

## Frame sections

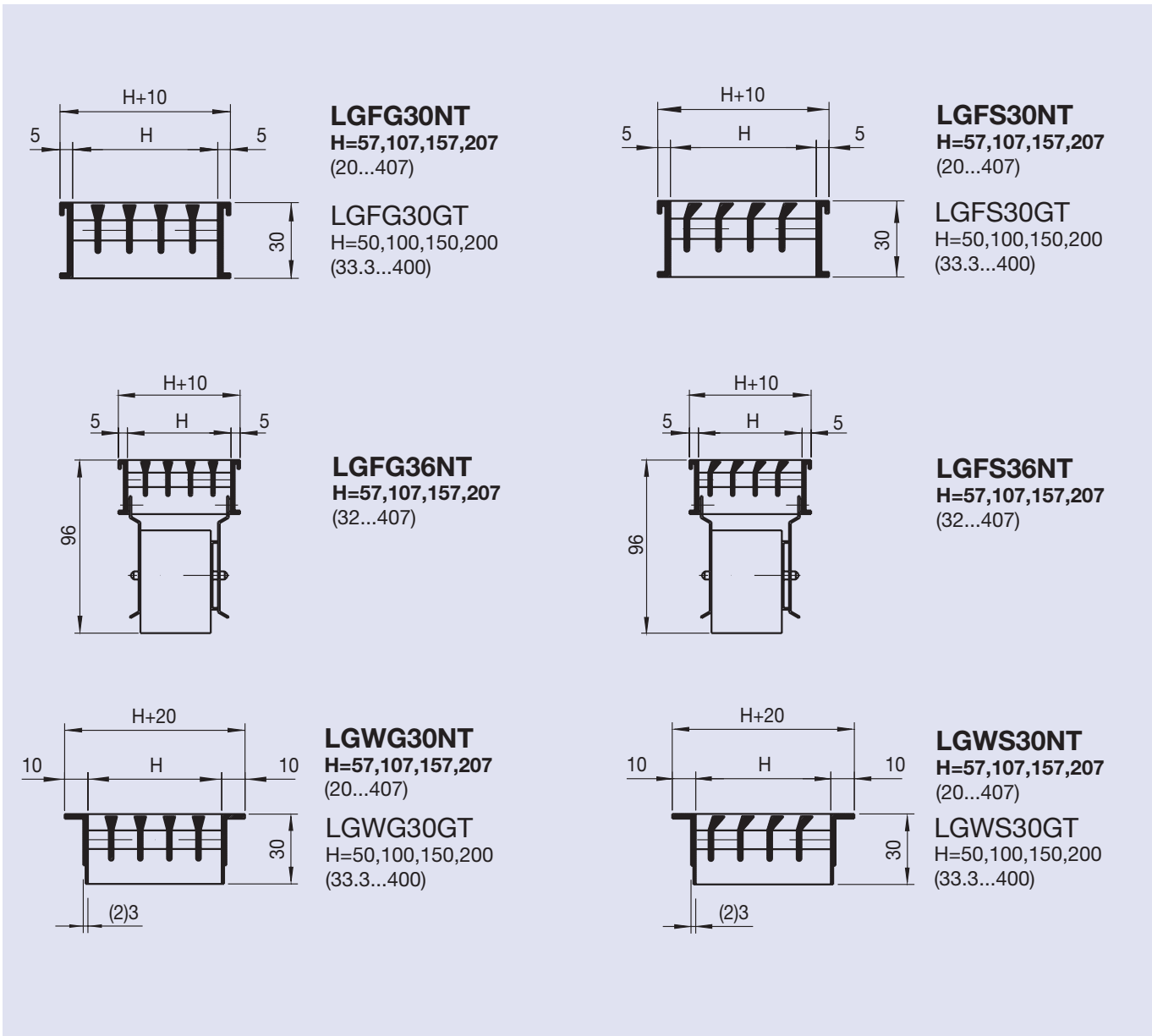


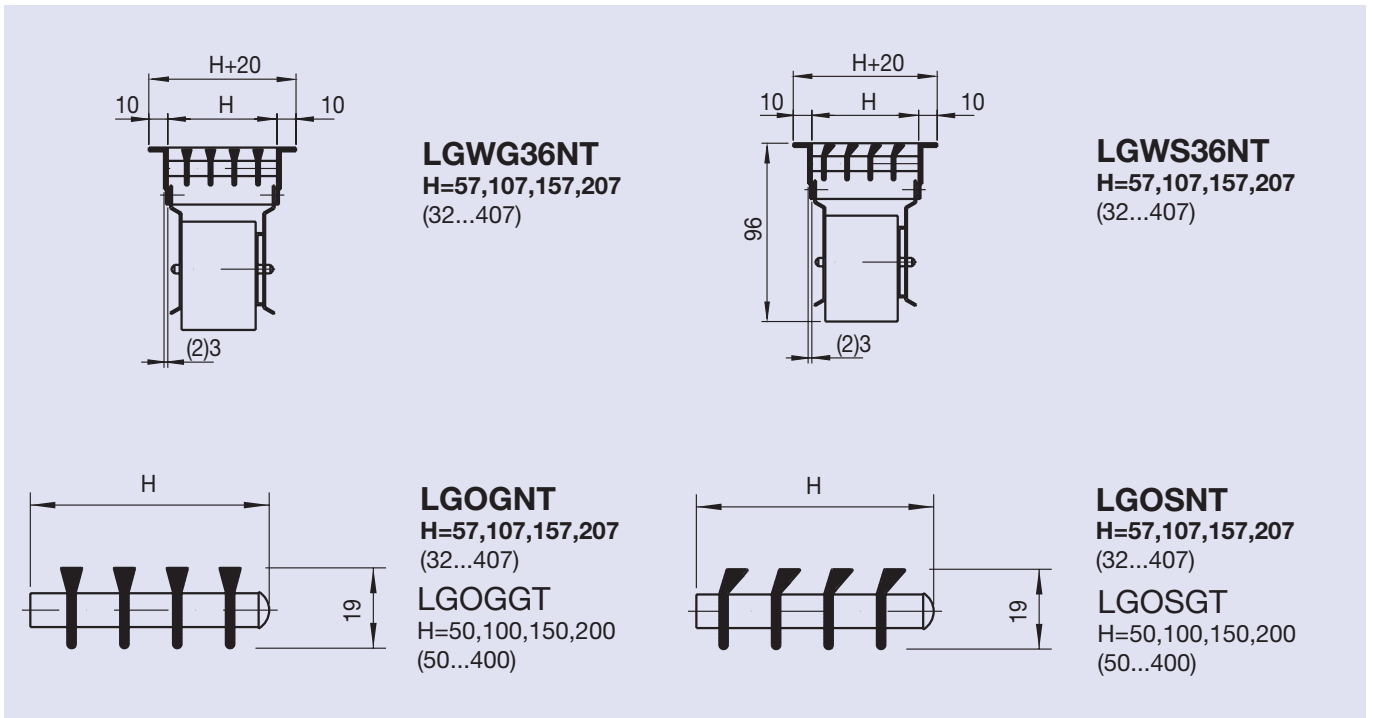
## Blade sections



## Sections

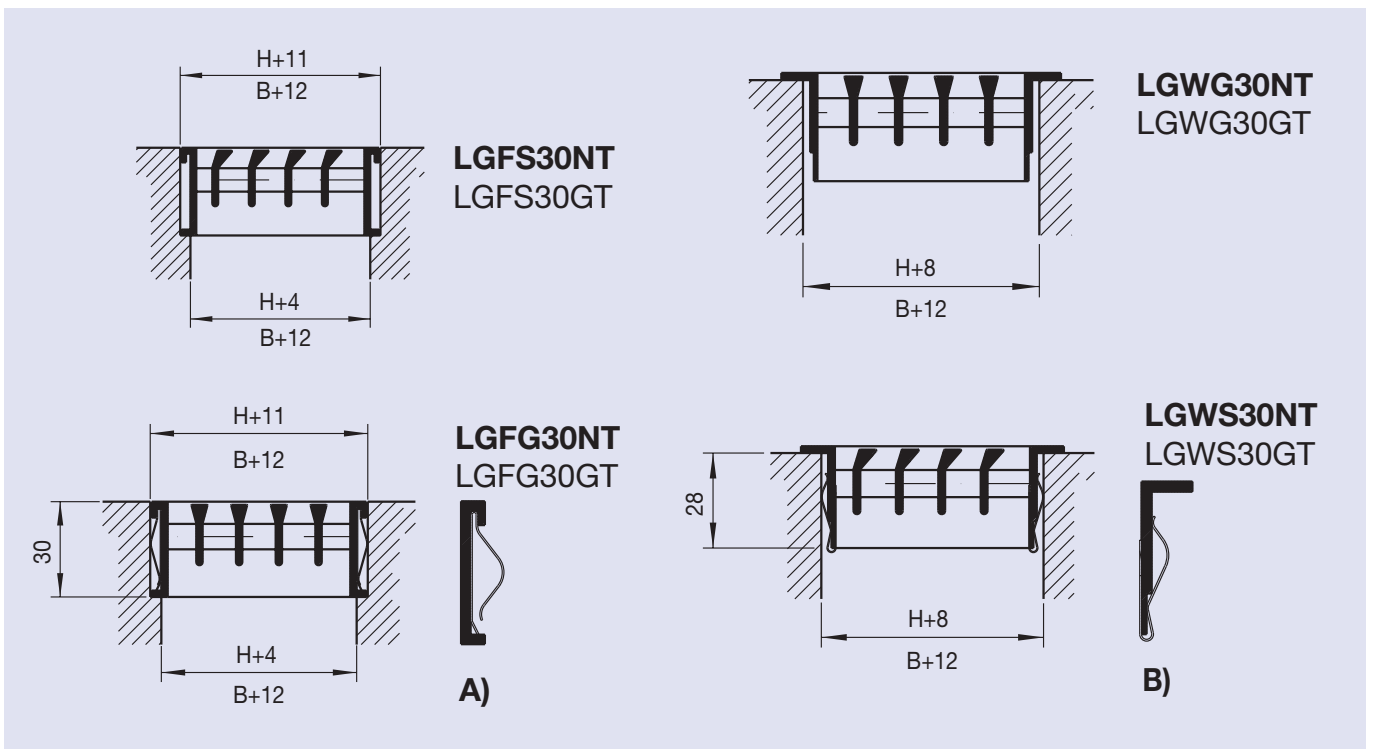
The nominal heights H available are indicated for each grille type.





## Installation examples

The linear grilles are inserted into the openings. For installation on walls, it is necessary to employ spring clips or larger edges with mounting holes. Both are supplied for extra charge.

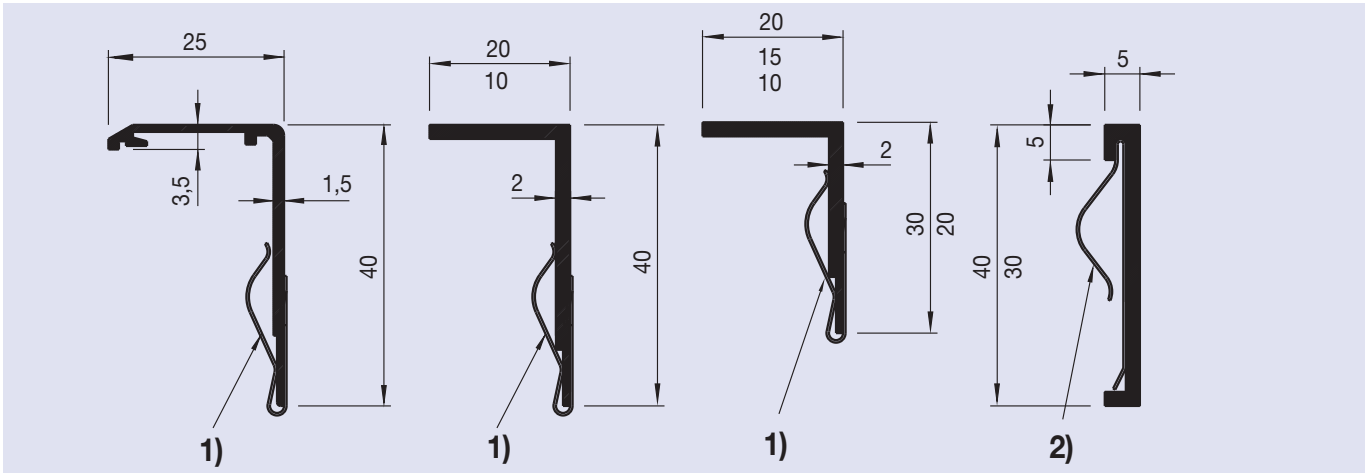


**A)** with spring clips KFF30,  
not suited for installation on ceiling

**B)** with spring clips KFW30,  
not suited for installation on ceiling

# Installation

**Special models** (prices on request)  
Frame profiles for special models

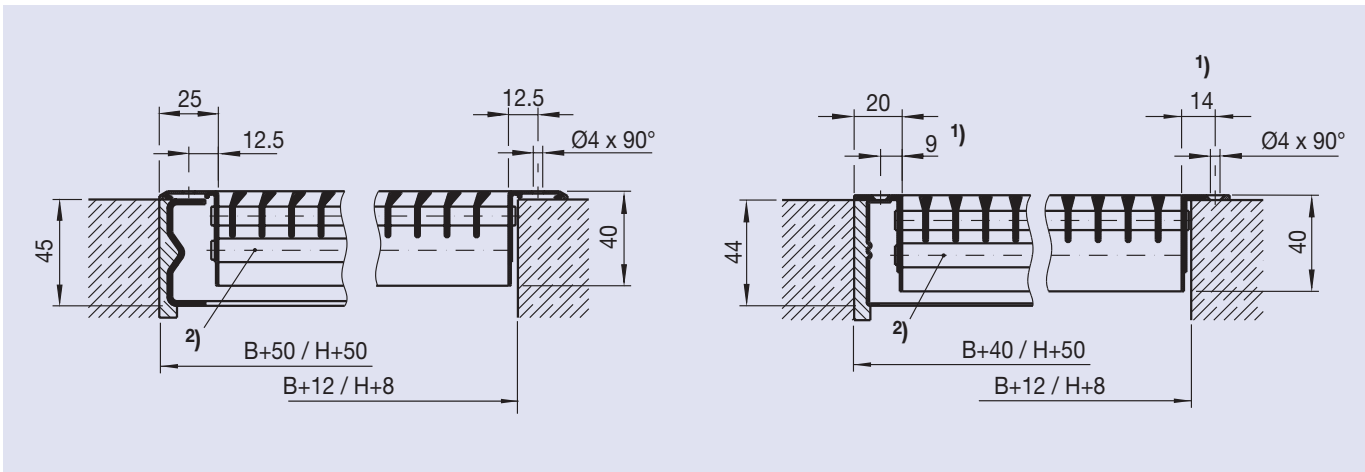


- 1) Spring clips KFW
- 2) Spring clips KFF30 or 40

Orders for LG with edge widths larger than 10 mm should state whether they are to be supplied with or without mounting holes. Special reinforced LG models are designed for load bearing applications (depth of the frame 40 mm).

**With special masonry frame**

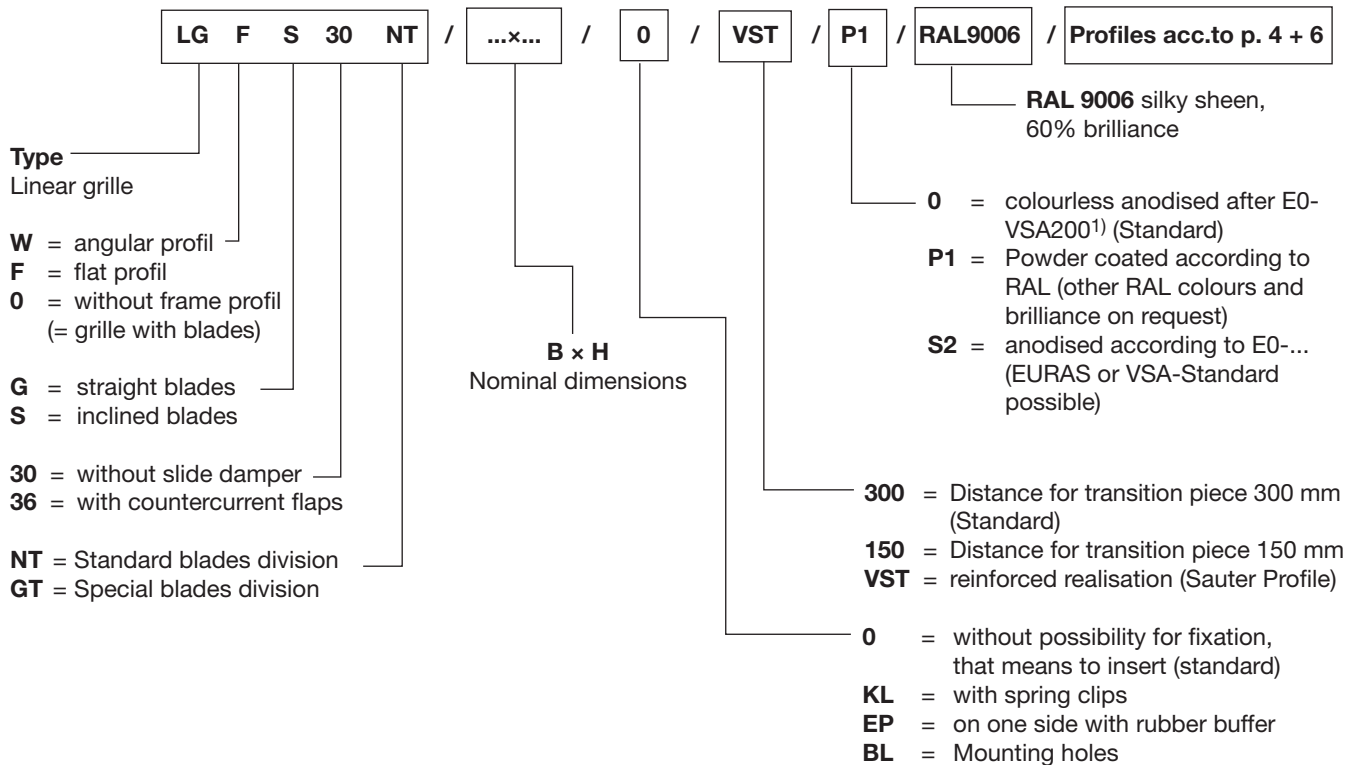
**Only with normal DG masonry frame available**  
(see prospectus L-02-1-10e).



- 1) Observe distances between holes !
- 2) Special reinforced models (designed for bad bearing applications, depth of the frame 40 mm)

Linear grilles against ball impact see prospectus L-02-4-03e

## Order codes



## Order examples

10 off LG F G 30 NT / 600 x 107 / 300

20 off LG W S 36 GT / 1000 x 150 / KL / 300 / P1 / RAL9010

1) Explanations see L-02-2-02e

## Text for tendering purposes

### Types

LGFG30NT, LGFS30NT, LGWG30NT, LGWS30NT

LGFG30GT, LGFS30GT, LGWG30GT, LGWS30GT

Linear grille of solid light metal sections, but not made for **load bearing** applications. Existing of an outer frame with a fixed blade grating. Blades arranged in longitudinal direction, not adjustable.

### Types

LGFG36NT, LGFS36NT, LGWG36NT, LGWS36NT

LGFG36GT, LGFS36GT, LGWG36GT, LGWS36GT

Linear grille like LGF..30 and LGW..30, however with damper mounted on rear side and light metal opposed blades (colourless).

## Variations for attachment

- inserted
- with spring clips
- with mounting holes

## Types (blade grating)

LGOG...NT, LGOS...NT, LGOG...GT, LGOS..GT

Blade grating of solid light metal sections, colourless anodised, but not made for **load bearing** applications. Blades arranged in longitudinal direction, not adjustable.

Connection tubes on one side equipped with rubber buffers.

## Options

- other RAL colours
- anodised according to E0-

