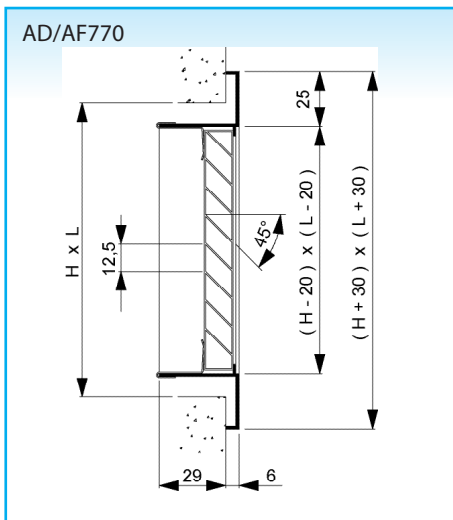
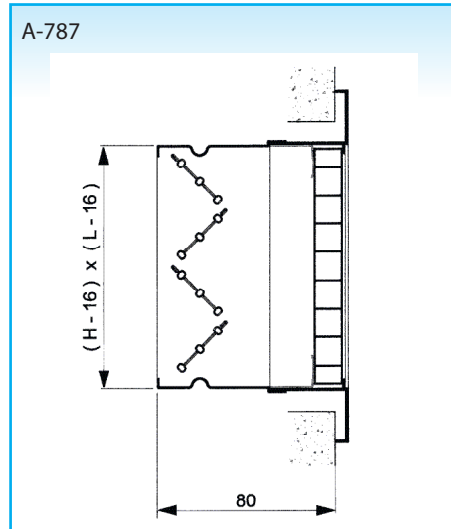
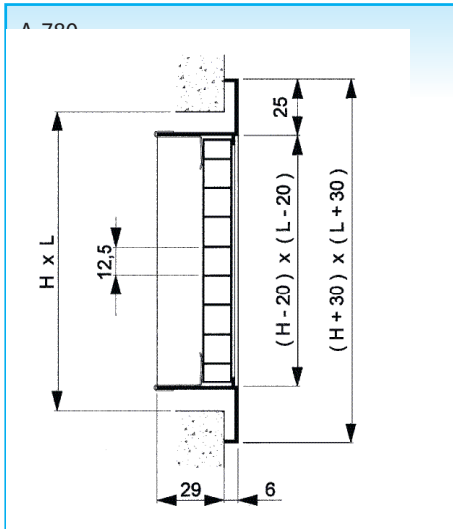


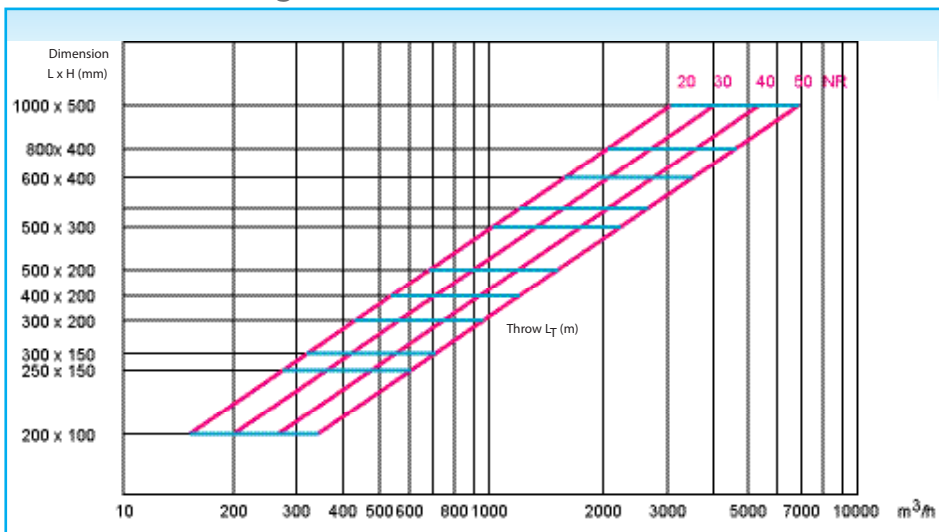
# GRID CORE GRILLE A-770/A-780

## Installation dimensions

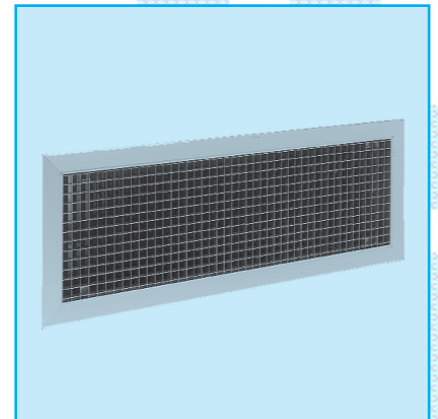


Nominal dimensions:  
L = nominal length (mm)  
H = nominal height (mm)  
All dimensions in mm

## Fast selection diagram



For a detailed selection and other dimensions, see next page.



## Application

The grille type A-770/A-780 is used for the exhaust of large quantities of air with minimal pressure loss in facilities such as offices, warehouses, shopping centres, ...  
The grille can be mounted in the wall or the ceiling (only AE and AF).

## Technical information

Characteristics:

- grid core with square mesh or mesh with 45° deflection
- mazes: 12,5 x 12,5 mm
- free passage ca. 85 %
- available in multiples of 1 mm, in height as well as in length  
min L = 100 mm, max L = 2000 mm  
min H = 100 mm, max H = 1220 mm
- GT007 only available in multiples of 25 mm in height as well as in length max L = 1200 mm, max H = 600 mm

Construction:

- extruded aluminium frame, natural tone anodised
- mill finish aluminium grid core

## Specifications description

Example:

Aluminium exhaust grille with fixed grid core (square mesh of 12,5 x 12,5 mm), equipped with a damper. The frame is natural tone anodised.

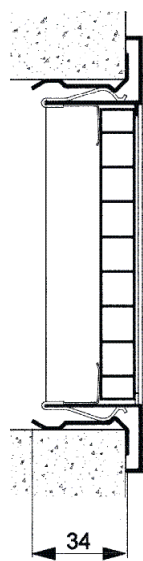
Type: AF780 + GT007  
nom. dim. (L x H) ... x ... mm

## Accessories

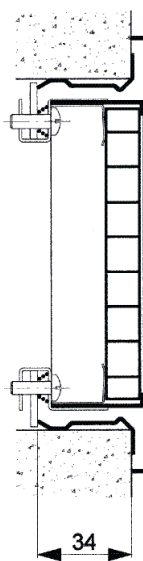
- GT007: damper with vertical opposed blades. Constructed in galvanised steel sheet painted black. (For further details, see p. 1 290)
- GR001: mounting frame: roll-formed, galvanised steel sheet (only for AD and AE)

## Fixing methods

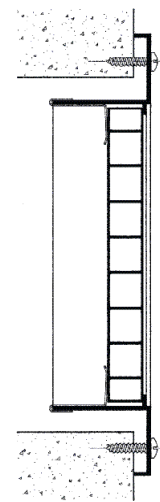
AD770/AD780 + GR001  
Friction spring fixing and mounting frame



AE780 + GR001  
Concealed screw fixing and mounting frame



AF770/AF780  
Visible screw fixing



## How to order

AE780, dimension 300 x 300 mm, with damper GT007 and mounting frame GR001

a) Grille

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | E | 7 | 8 | 7 | - | - | 0 | 3 | 0 | 0 | 0 | 3 | 0 | 0 |
|   |   |   |   |   |   |   | L |   |   |   | H |   |   |   |

0: without damper  
7: with damper

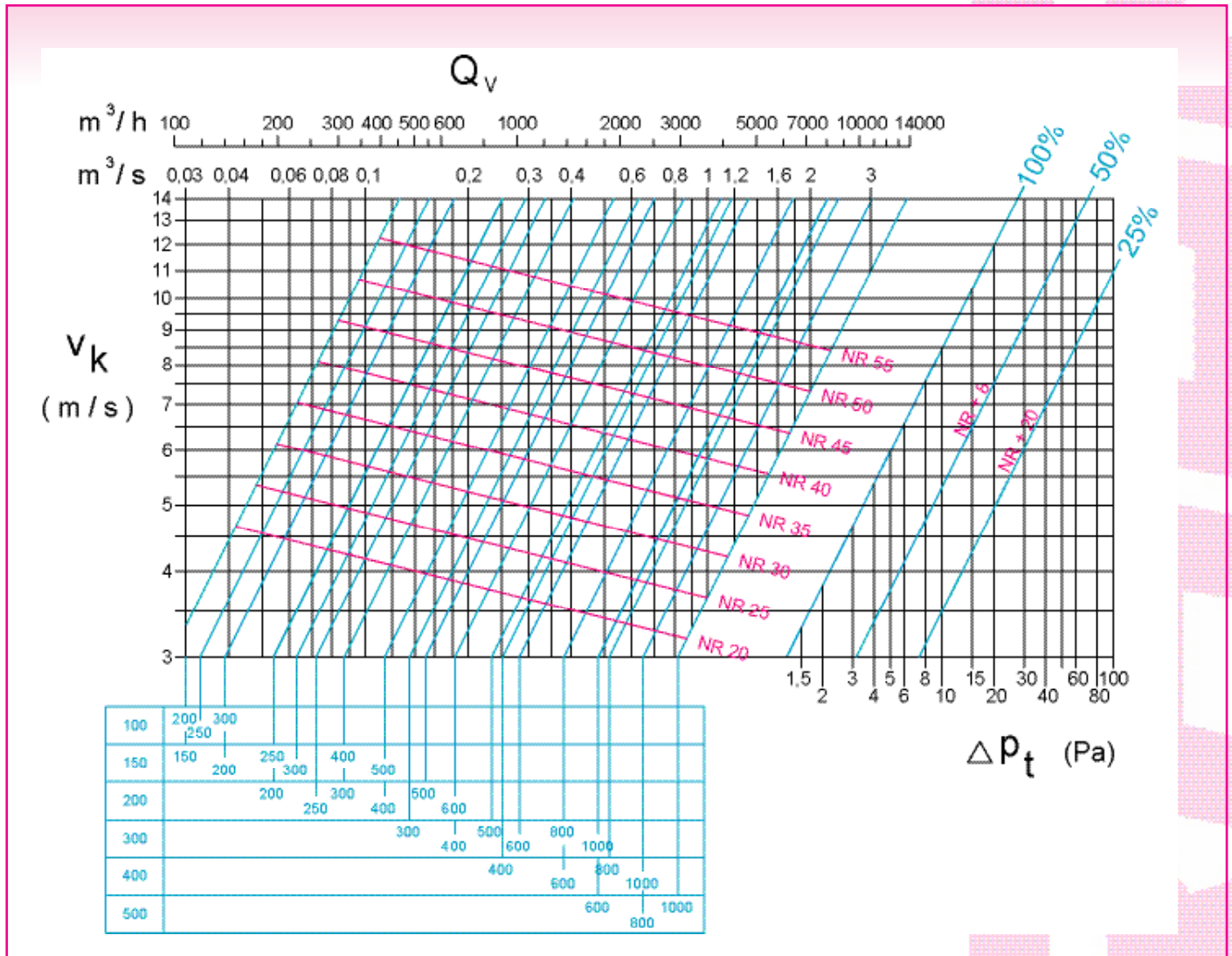
7: mesh with 45° deflection  
8: square mesh

D: frame width 25 mm, friction spring fixing  
E: frame width 25 mm, concealed screw fixing (only for A-780)  
F: frame width 25 mm, screw fixing  
U: false ceiling sheet out of aluminium U-frame

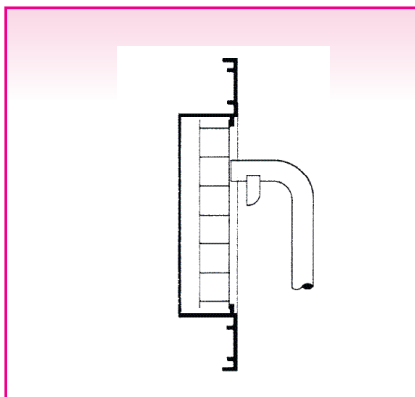
b) Mounting frame

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G | R | 0 | 0 | 1 | - | - | 0 | 3 | 0 | 0 | 0 | 3 | 0 | 0 |
|   |   |   |   |   |   |   | L |   |   |   | H |   |   |   |

Selection diagram - exhaust



Air flow rate measurement-exhaust



Velometer jet: 2220 A or 6070

| H (mm) | $A_k$ - values ( $m^2$ ) |       |       |       |       |       |       |       |
|--------|--------------------------|-------|-------|-------|-------|-------|-------|-------|
|        | L (mm)                   |       |       |       |       |       |       |       |
|        | 200                      | 250   | 300   | 400   | 500   | 600   | 800   | 1000  |
| 100    | 0,009                    | 0,011 | 0,013 | -     | -     | -     | -     | -     |
| 150    | 0,013                    | 0,018 | 0,021 | 0,029 | 0,038 | -     | -     | -     |
| 200    | 0,018                    | 0,024 | 0,029 | 0,038 | 0,050 | 0,061 | -     | -     |
| 300    | -                        | -     | 0,045 | 0,061 | 0,078 | 0,094 | 0,127 | 0,160 |
| 400    | -                        | -     | -     | 0,084 | -     | 0,127 | 0,172 | 0,216 |
| 500    | -                        | -     | -     | -     | -     | 0,160 | 0,216 | 0,275 |

Example

- Exhaust air flow rate  $q_v = 0,5 m^3/s$
- Grille: 500 x 300 mm
- Air velocity  $v_k = 6,5 m/s$
- Noise level NR 40
- Total pressure loss with damper 50% open:  $\Delta p_t = 15 Pa$
- Noise level correction: NR 40 + 8 = NR 48