



TAU aluminium vloerroosters



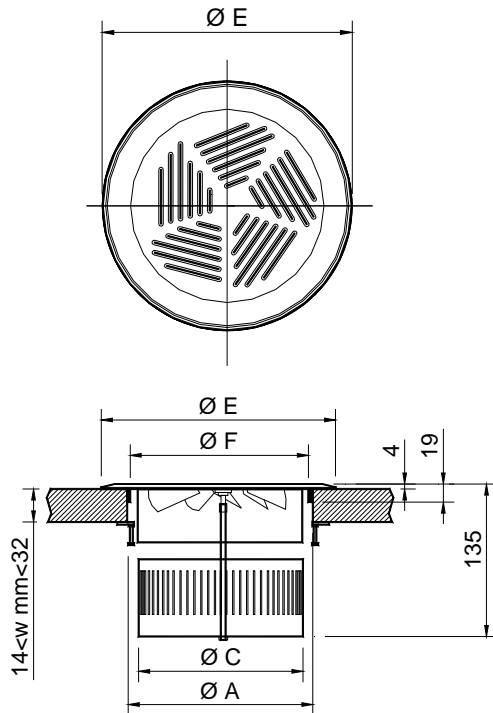
MADEL®

De vloerroosters van de **TAU** serie zijn ontworpen voor gebruik in schouwburgen, concertzalen, bioscopen, enz...

Rond luchtrooster met volumeregelaar, ontstoffer en bevestigingsring, voor montage in de vloer of onder stoelen.

Deze luchtroosters kunnen worden gebruikt voor een temperatuurverschil van 6°C en staat in voor goede prestaties met het geluidsdrukkniveau in de comfortzone.

TAU



| | A | E | F | C |
|-----|-----|-----|-----|-----|
| 150 | 150 | 190 | 140 | 132 |
| 200 | 200 | 240 | 190 | 182 |

CLASSIFICATION

TAU Floor swirl diffuser made from aluminium for creating a turbulent vertical discharge, mixing the room air.

MATERIAL

Diffuser made from aluminium.

FIXING SYSTEMS

1) Fixing by screws supplied with the diffuser.

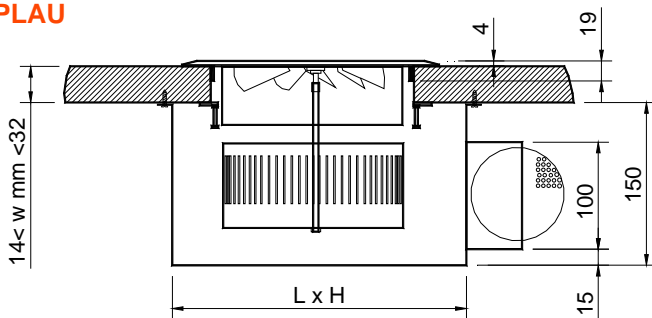
ACCESSORIES

PLAU Plenum with lateral circular connection, incorporating brackets for ground fixing. Made of galvanized steel.

...-R Volume damper in the spigot.

.../AIS/ Thermally insulated plenum with foam: Density 30 kg / m³ ISO 845. Thermal conductivity 20° C_0,040 W/m²K ISO 3386/1. Classified reaction to fire B-s2, d0 EN 13501-1.

PLAU



| | L | H |
|-----|-----|-----|
| 150 | 225 | 225 |
| 200 | 275 | 275 |

FINISHES

1) Natural aluminium.

RAL... Painted in other RAL colors.

SPECIFICATION TEXT

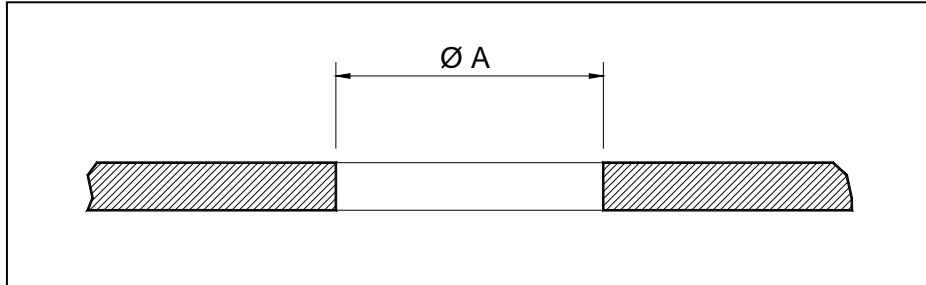
Supply and mounting of floor circular swirl diffuser with sliding volume damper and dust collector series **TAU dim. 150** constructed from natural aluminium. Manufacturer **MADEL**.

RAL colors

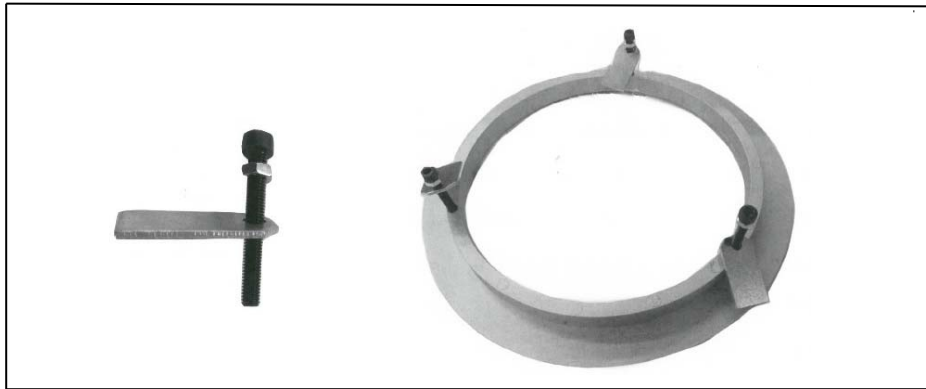


Assembly instructions

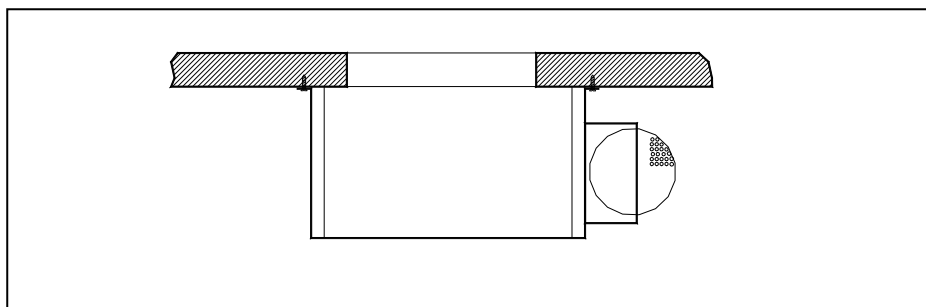
1.- Nominal diameter concrete slab opening :



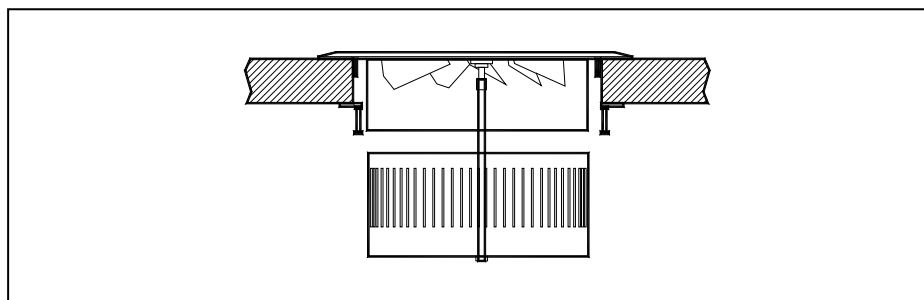
2.- Fit the screws on the mounting frame :



3.- When using a PLAU type plenum, screw it onto the lower part of the concrete slab :



4.- Finally fix the frame of the TAU, screw and place the diffuser :





TAU - 150

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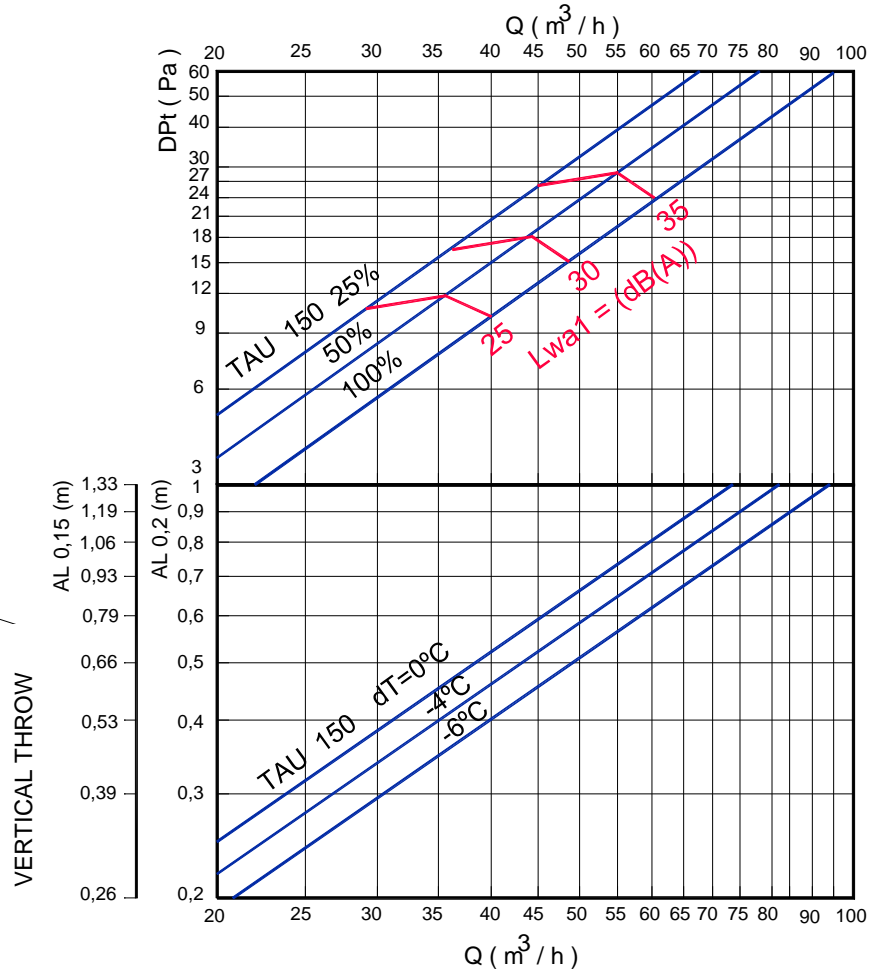
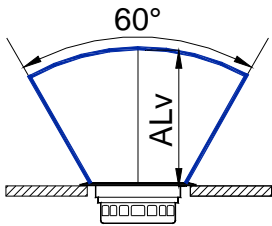
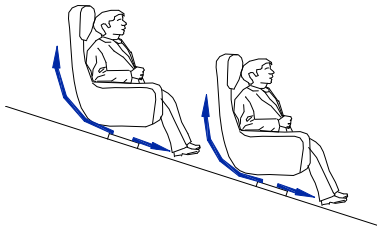
PRESURE LOSS AND SOUND POWER LEVEL

RECOMMENDED VELOCITY

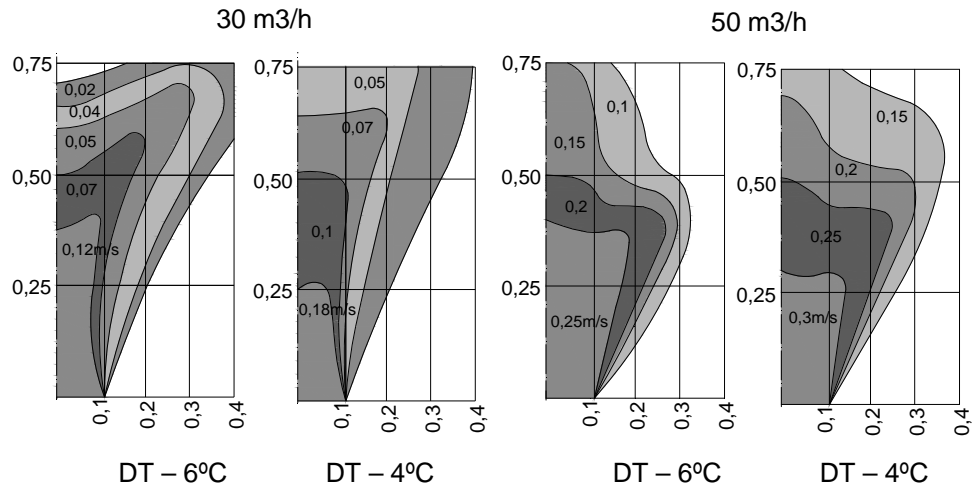
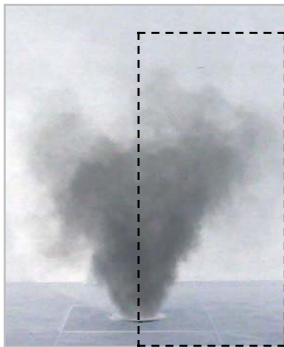
| | min m/s | max m/s |
|--|------------|------------|
| | 0,4 | 0,85 |

FREE FACE AREA (m2)

| | m2 | min m3/h | max m3/h |
|-----|-------|-------------|-------------|
| 150 | 0.018 | 30 | 57 |



Speed profile TAU 150





TAU - 200

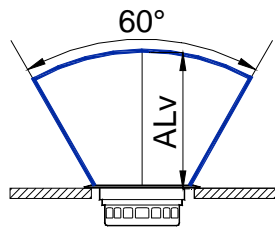
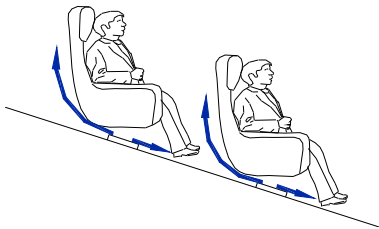
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RECOMMENDED VELOCITY

| | min m/s | max m/s |
|--|------------|------------|
| | 0,4 | 0,85 |

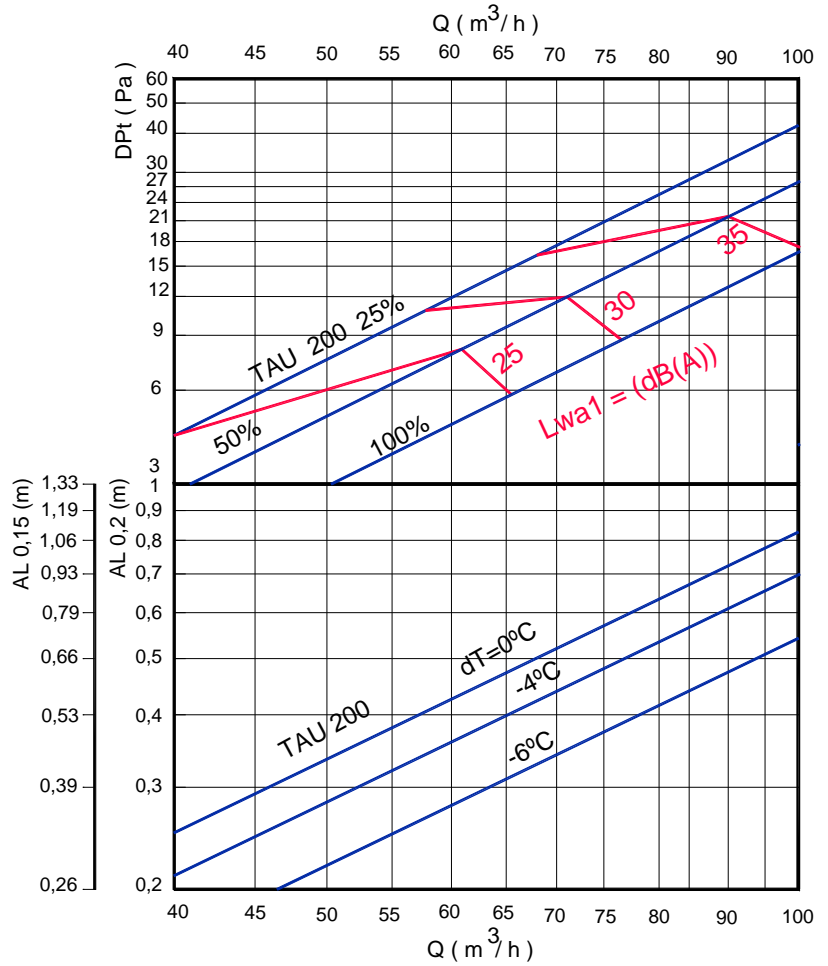
FREE FACE AREA (m2)

| | m2 | min m3/h | max m3/h |
|-----|--------|-------------|-------------|
| 200 | 0.0314 | 60 | 100 |

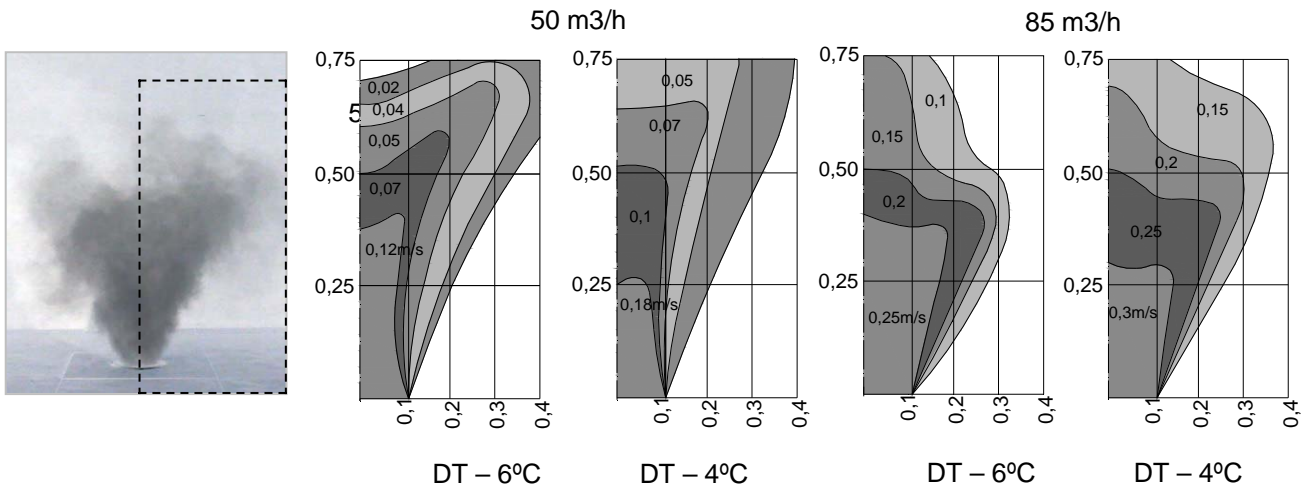


VERTICAL THROW

PRESURE LOSS AND SOUND POWER LEVEL



Speed profile TAU 200



Acoustic data by octave bands



Figure 1 Connection of the air duct to the bleachers



Figure 2 Model of bleachers with 8 diffusers

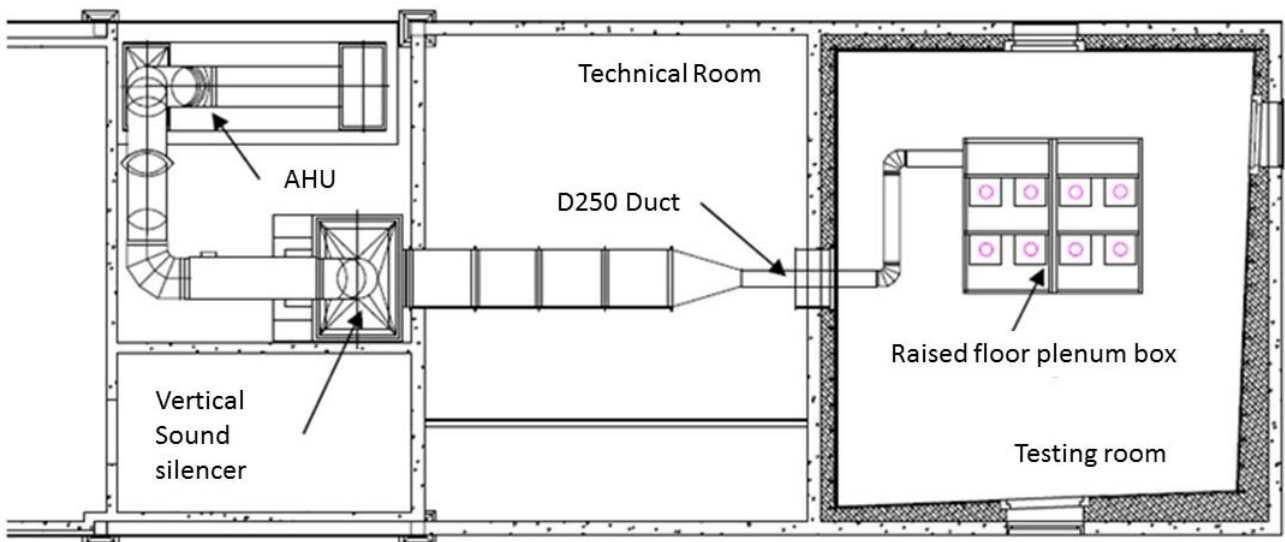


Figure 3 Principle scheme

TAU- 150

| Q | Sound power level in dB (A). Octava band centre frequency in Hz | | | | | | | | | | | Pa |
|------|---|-----|-----|-----|------|------|------|------|--------|----|----|-----|
| m3/h | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | GLOBAL | NC | NR | Dpt |
| 30 | <8 | 8 | 15 | 17 | 13 | 6 | <8 | 2 | 20 | 15 | 20 | 5 |
| 40 | 5 | 13 | 20 | 22 | 18 | 11 | 5 | 7 | 25 | 20 | 25 | 10 |
| 50 | 12 | 20 | 27 | 29 | 25 | 18 | 12 | 14 | 32 | 30 | 30 | 16 |
| 60 | 15 | 23 | 30 | 32 | 28 | 21 | 15 | 17 | 35 | 30 | 35 | 23 |

TAU-200

| Q | Sound power level in dB (A). Octava band centre frequency in Hz | | | | | | | | | | | Pa |
|------|---|-----|-----|-----|------|------|------|------|--------|----|----|-----|
| m3/h | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | GLOBAL | NC | NR | Dpt |
| 60 | 7 | 11 | 17 | 17 | 13 | 5 | 4 | 7 | 22 | 20 | 20 | 5 |
| 75 | 14 | 18 | 24 | 24 | 20 | 12 | 11 | 14 | 29 | 25 | 30 | 8 |
| 90 | 18 | 22 | 28 | 28 | 24 | 16 | 15 | 18 | 33 | 30 | 35 | 13 |
| 100 | 21 | 25 | 31 | 31 | 27 | 19 | 18 | 21 | 36 | 35 | 35 | 17 |