

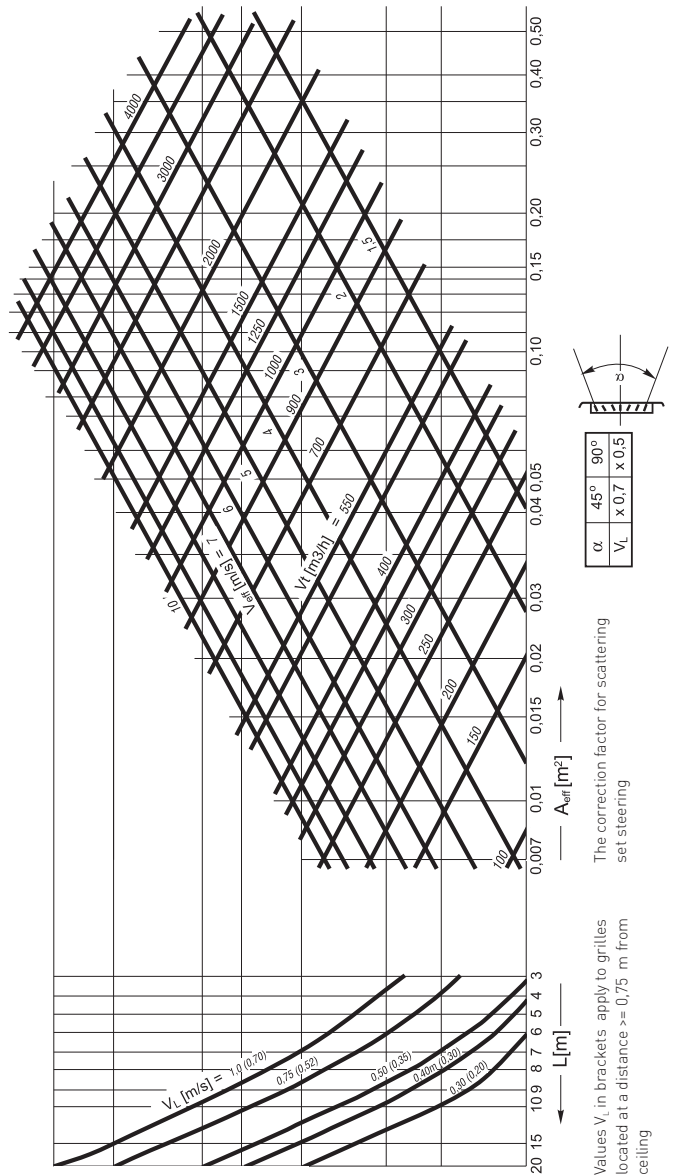
Flow and acoustic characteristics of the air grilles



Symbols:

V_L	[m/s]	average flow velocity at a distance L
V_t	[m ³ /h]	the total air flow
V_{eff}	[m/s]	effective flow velocity
A_{eff}	[m ²]	effective area of grid
Δt	[K]	air temperature differences
Δp	[Pa]	local pressure loss
L	[m]	throw
α	[°]	angle of the steering
y	[m]	the deflection of air stream
L_w	[dB _(A)]	power level

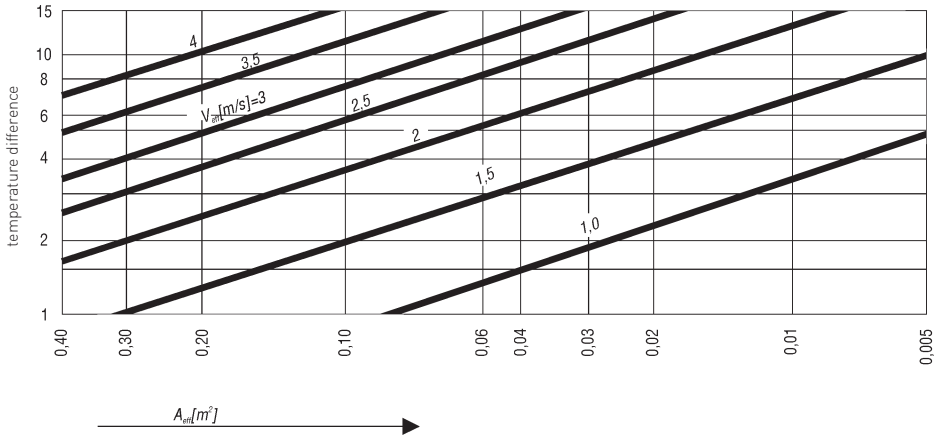
Applies to:
 AL-SWS, ST-SWS, ALW, ALS, ALWS, ALSW, STW, STS,
 AL-SWS, ST-SWS, ALW, ALS, ALWS, ALSW, STW, STS,
 STWS, STSW, ALP, AL-SI2, AL-SI21, ST-SI2, ST-SI21, KH,
 ALWT-2, ALWN, KST (vanes at 90°)



Flow and acoustic characteristics of the air grilles



The recommended air flow rate effective to obtain the Coanda effect in relation to the active surface of grille and the temperature difference supply air and room air.
The distance from the ceiling grid < 0,75 m.



Note:
Exceeding the limits indicated in the graph of temperature differences (for a given area and flow velocity) causes the separation of air from the ceiling.

Influence temperature difference between supply air and room air in the deflection of air stream at a distance L. The distance from the ceiling grid < 0,75 m.

