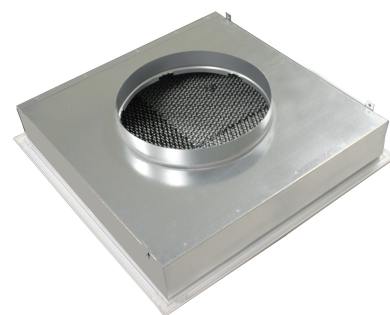


**PPTMB
(RAL9010)**

- Diffusers
- Supply 1-4 directions
- Steel
- White, RAL 9010



Perforated ceiling diffusers for air supply type PPTMB (RAL9010)

Air supply ceiling diffusers with adjustable 1- to 4-way pattern perforated plate.

Application

- For air supply in ventilation and air conditioning systems

Material

- Steel

Colour

- White, RAL 9010

Composition

- Perforated removable front plate with incorporated top entry plenum box.

Text for tender

- The square air supply ceiling diffusers are of the multidirectional type with a perforated front plate and an incorporated plenum box. They are made of steel in white powdercoating finish RAL 9010.
- **Cairox** type **PPTMB**

Other available products

- For **PPTMB 315** see **PS/PPTMB 315**

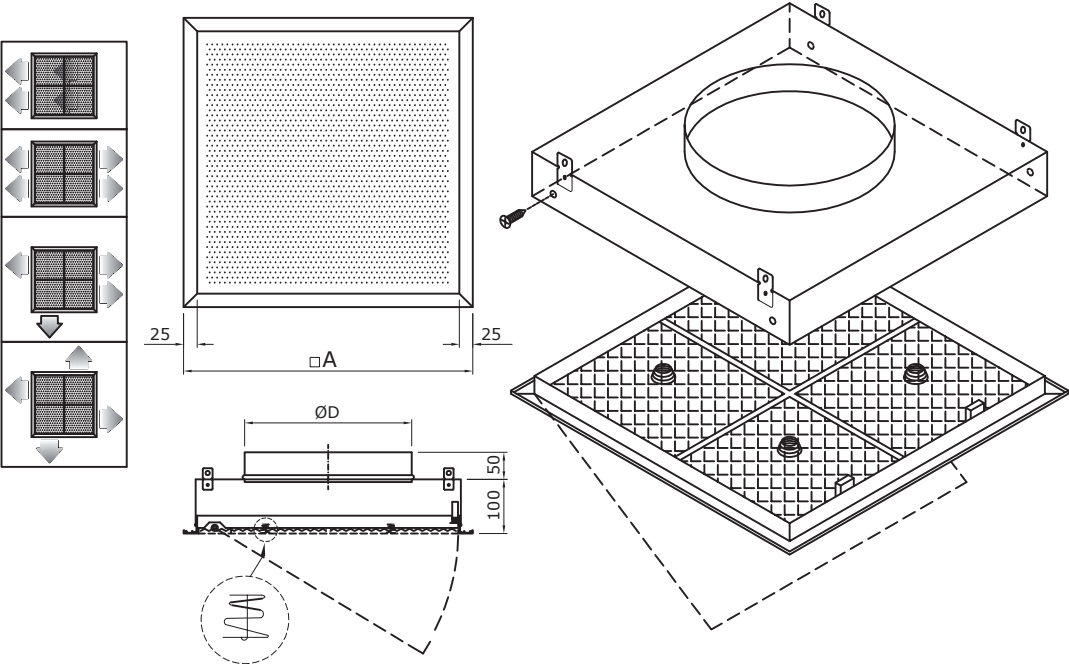
Order example

- **PPTMB, 200**

Explanation

PPTMB = Diffuser type

200 = Diffuser size (connection diameter)



PPTMB	Dimensions	
	A [mm]	ØD [mm]
160	300	160
200	400	200
250	500	250

PPTMB		Quick selection								
		300/160 0.0302			400/200 0.0591			500/250 0.0976		
Q	Ak	1.2	2.4	3.6	1.2	2.4	3.6	1.2	2.4	3.6
150	Vz	H= 2.7 H= 3.2 H= 3.8	0.97 0.36 0.21	0.32 0.21 0.15	0.19 0.15 0.11	0.69 0.26 0.15	0.23 0.15 0.1	0.14 0.1 0.08		
	Vk		1.4			0.7				
	X0.25		2.4			2				
	Ps		8			2				
	Lw(A)		25			<20				
200	Vz	H= 2.7 H= 3.2 H= 3.8	1.29 0.49 0.28	0.43 0.28 0.19	0.26 0.19 0.15	0.92 0.35 0.2	0.31 0.2 0.14	0.18 0.14 0.11	0.73 0.27 0.16	0.24 0.16 0.11
	Vk		1.8			0.9			0.6	
	X0.25		2.8			2.3			2.1	
	Ps		13			3			1	
	Lw(A)		34			<20			<20	
250	Vz	H= 2.7 H= 3.2 H= 3.8	1.62 0.61 0.35	0.54 0.35 0.24	0.32 0.24 0.19	1.15 0.43 0.25	0.38 0.25 0.17	0.23 0.17 0.13	0.91 0.34 0.2	0.3 0.2 0.14
	Vk		2.3			1.2			0.7	
	X0.25		3.1			2.6			2.3	
	Ps		22			6			2	
	Lw(A)		42			22			<20	
300	Vz	H= 2.7 H= 3.2 H= 3.8				1.38 0.52 0.3	0.46 0.3 0.21	0.28 0.21 0.16	1.09 0.41 0.23	0.36 0.23 0.16
	Vk					1.4			0.9	
	X0.25					2.9			2.5	
	Ps					8			3	
	Lw(A)					28			<20	
400	Vz	H= 2.7 H= 3.2 H= 3.8				1.85 0.69 0.4	0.62 0.4 0.28	0.37 0.28 0.21	1.46 0.55 0.31	0.49 0.31 0.22
	Vk					1.9			1.1	
	X0.25					3.4			3	
	Ps					15			5	
	Lw(A)					38			23	
600	Vz	H= 2.7 H= 3.2 H= 3.8							2.19 0.82 0.47	0.73 0.47 0.33
	Vk								1.7	
	X0.25								3.8	
	Ps								12	
	Lw(A)								36	
800	Vz	H= 2.7 H= 3.2 H= 3.8							2.92 1.09 0.63	0.97 0.63 0.44
	Vk								2.3	
	X0.25								4.7	
	Ps								22	
	Lw(A)								46	

Symbols and specifications

- Q = Air Volume in m³/h
 - Ak = Effective surface (free area) in m²
 - B = Distance between diffusers in m
 - H = Installation height of the diffusers in m
 - Vz = Maximum velocity at the occupied zone regarding distance between diffusers and installation height in m/s
 - Vk = Average effective velocity through the grill in m/s
 - X0.25 = Throw length in m at an endvelocity Vt of 0,25m/s
 - Ps = Static pressure loss given in Pa
 - Lw(A) = Acoustic power in dB(A)
-
- The throw X0.25 is given at an end velocity of 0.25m/s for a smooth ceiling without any obstacles.
 - The table values are given for the adjustable deflection plates set at its standard position to achieve an air flow pattern in 4 direction
 - The values are given for isothermal supply air. Throw distances for cooling conditions at -11K can be calculated by deviding the X0.25 values with factor 1.1. For heating purposes at Dt of +11K a multiplier of 1.1 should be applied to the given X0.25 value.
 - In order to achieve a high comfort level, selections can be made according to the maximal velocity at the occupied zone Vz. These values are given at distances between diffusers B and installation heights H. Velocities Vz lower than, or equal to 0,25m/s at the occupied zone are advised.
 - The pressure losses Ps are given for grilles without damper of with fully opened damper.
 - The acoustic power Lw(A) are given for grilles without damper of with fully opened damper without room attenuation. Acoustic powers below 20dB(A) are mentioned as "<20" in the tables.
 - For all special requirements, please contact our engineering office.

Placement instruction

