

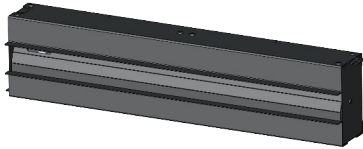
TDLMS

Concealed single-slot diffuser



Diffusion

Components
for perfect air
distribution in HVAC
systems



Product

TDLMS

Application

On closed suspended ceilings

Construction

Painted steel RAL 9005

SPECIFICATION

High induction single-slot linear diffuser designed without frame for concealed installation in suspended ceilings.

MOUNTING

To plenum with side screws

Dimensions

P7 = 40 mm SLOT

P8 = 60 mm SLOT

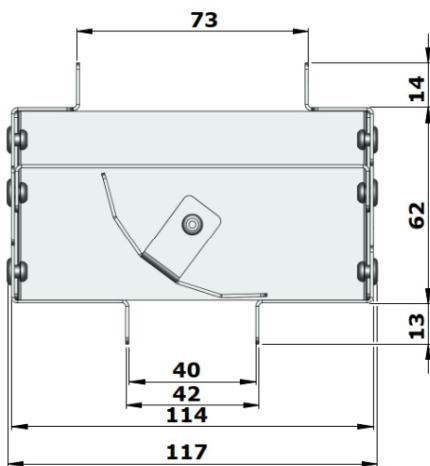
ACCESSORIES

Damper, equaliser and plenum

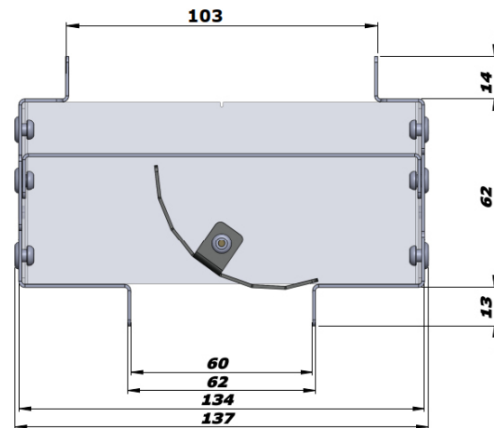
AVAILABLE LENGTHS:

L=500

L=1000



TDLMS1F***P7



TDLMS1F***P8

TDLMS

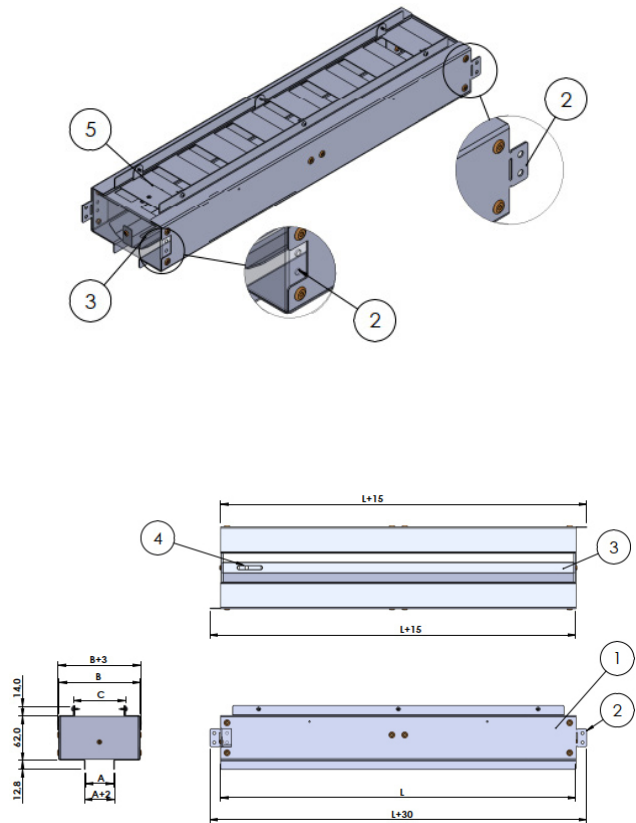
Concealed single-slot diffuser

IN-LINE MOUNTING

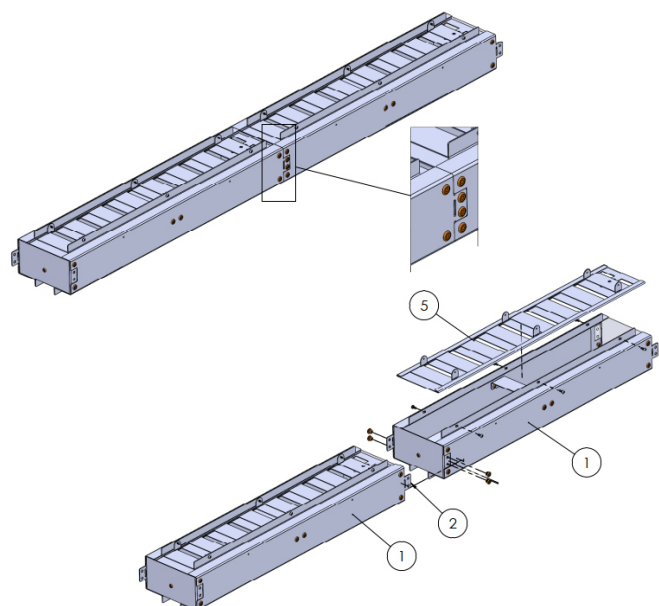
DIFFUSER COMPONENTS

Pos.	Description
1	Diffuser
2	Line junction element
3	Deflector
4	Slot for damper adjustment
5	Damper / Equalizer
6	Ceiling
7	Connection
8	Plenum

A (mm)	B (mm)	C (mm)
40	114	73
60	134	103

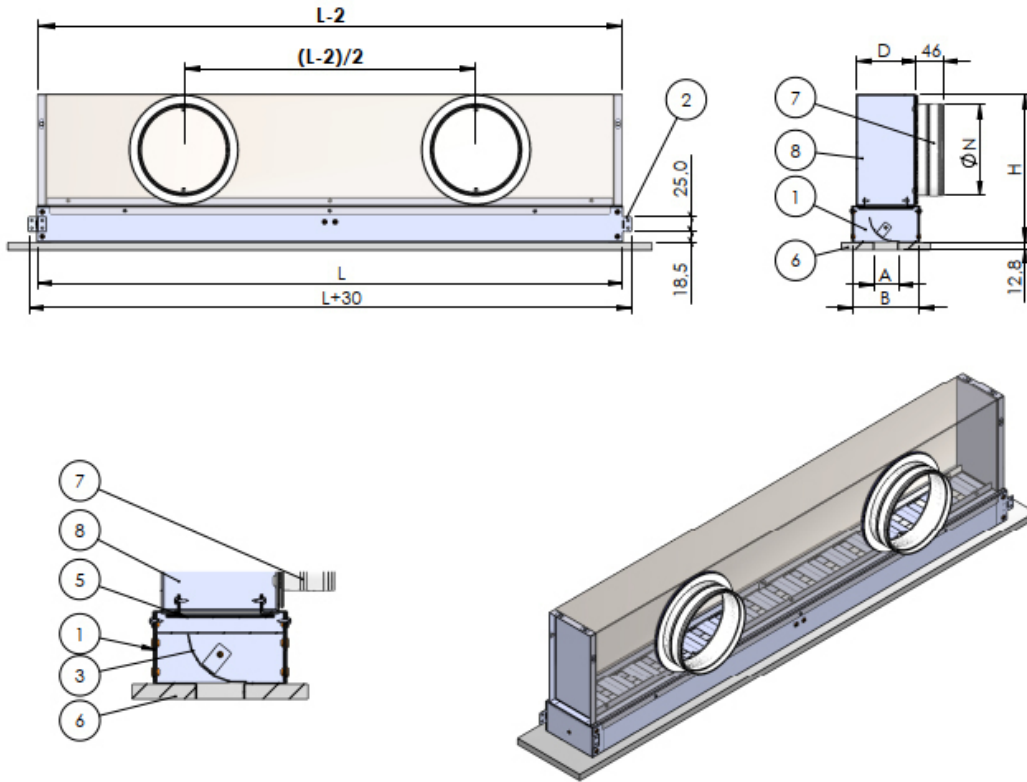


Pos.	Description
1	Diffuser
2	Line junction element
5	Damper / Equalizer





PLENUM DIMENSIONS:



	A (mm)	B (mm)	D (mm)	ØN (mm)	H (mm)	L (mm)
TDLMS1FxxxP7	40	114	101	160	252	diffuser length (xxx)
TDLMS1FxxxP8	60	134	103	200	292	diffuser length (xxx)

No. Connections	
diffuser length (500mm)	1
diffuser length (1000mm)	2

Symbol	Description
Q	Air flow rate in m³/h
Ak	Effective section (free area) in m²
Vk	Average velocity at diffuser outlet in m/s
X0,25	Throw length L in m at a terminal velocity VL of 0.25 m/s under isothermal conditions free from obstacles.
Pst	Static pressure loss in Pa, of Diffuser + Plenum
Lw(A)	Sound Power in dB(A)

TDLMS 40 SELECTION TABLE WITHOUT DAMPER

dT values: 0 K		Vertical throw			Horizontal throw		
Q	Dim	500	1000	1000	500	1000	1000
(m ³ /h)	Dim	0,01	0,02	0,02	0,0075	0,015F	0,015F
	Ak(m ²)						
80	Vk (m/s)	2,2	1,1	3,0	1,5		
	X0,25 (m)	2,8	1,60	1,9	1,0		
	Ps(Pa)	6,0	<5	9,0	<5		
	Lw(A)	<20	<20	<20	<20		
100	Vk (m/s)	2,8	1,4	3,7	1,9		
	X0,25 (m)	4,4	2,50	3,0	1,6		
	Ps(Pa)	9,0	<5	14,0	<5		
	Lw(A)	<20	<20	23,0	<20		
120	Vk (m/s)	3,3	1,7	4,4	2,2		
	X0,25 (m)	6,3	3,60	4,3	2,2		
	Ps(Pa)	13,0	<5	20,0	5,0		
	Lw(A)	25,0	<20	29,0	<20		
150	Vk (m/s)	4,2	2,1	5,6	2,8		
	X0,25 (m)	9,9	5,60	6,7	3,4		
	Ps(Pa)	20,0	5,0	32,0	8,0		
	Lw(A)	31,0	<20	36,0	<20		
200	Vk (m/s)	5,6	2,8		3,7		
	X0,25 (m)	17,5	9,90		6,0		
	Ps(Pa)	36,0	9,0		14,0		
	Lw(A)	40,0	19,0		23,0		
250	Vk (m/s)		3,5		4,6		
	X0,25 (m)		15,00		9,4		
	Ps(Pa)		14,0		22,0		
	Lw(A)		26,0		30,0		
350	Vk (m/s)				6,5		
	X0,25 (m)				18,0		
	Ps(Pa)				43,0		
	Lw(A)				40,0		
450	Vk (m/s)				8,3		



TDLMS 60 SELECTION TABLE WITHOUT DAMPER

dT values: 0 K		Vertical throw			Horizontal throw		
Q (m ³ /h)	Dim	Dim Ak(m ²)	1000	1000	1000	1000	
			500 0,0142	0,028	500 0,0145	0,029F	
150	Vk (m/s)		2,9	1,5	2,9	1,4	
	X0,25 (m)		3,4	2,00	3,0	1,9	
	Ps(Pa)		9,0	<5	8,0	<5	
	Lw(A)		20,0	<20	22,0	<20	
200	Vk (m/s)		3,9	2,0	3,8	1,9	
	X0,25 (m)		6,2	3,50	4,3	3,4	
	Ps(Pa)		16,3	4,1	14,0	<5	
	Lw(A)		25,0	<20	31,0	<20	
250	Vk (m/s)		4,9	2,4	4,8	2,4	
	X0,25 (m)		9,5	5,40	6,7	5,3	
	Ps(Pa)		25,4	6,4	22,5	6,0	
	Lw(A)		35,0	<20	38,0	<20	
300	Vk (m/s)		5,9	2,9	5,7	2,9	
	X0,25 (m)		14,0	7,80	6,7	7,7	
	Ps(Pa)		36,6	9,0	32,5	8,0	
	Lw(A)		41,0	23,0	43,0	25,0	
350	Vk (m/s)			3,4	6,7	3,4	
	X0,25 (m)			10,60	6,7	10,5	
	Ps(Pa)			12,5	44,0	11,0	
	Lw(A)			27,0	48,0	30,0	
400	Vk (m/s)			3,9		3,8	
	X0,25 (m)			13,90		13,7	
	Ps(Pa)			16,3		14,5	
	Lw(A)			31,0		34,0	
500	Vk (m/s)			4,9		4,8	
	X0,25 (m)			21,00		21,0	
	Ps(Pa)			25,5		23,0	
	Lw(A)			38,0		41,0	
600	Vk (m/s)					5,7	
	X0,25 (m)					30,7	
	Ps(Pa)					33,0	
	Lw(A)					46,0	
700	Vk (m/s)					6,7	
	X0,25 (m)					41,8	
	Ps(Pa)					45,0	
	Lw(A)					51,0	