

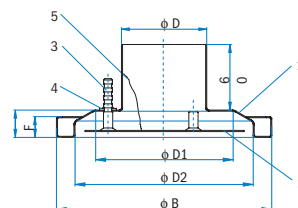
■ Circular diffuser OD-10

Version HIDDEN Mod. OD-10IA-CRL

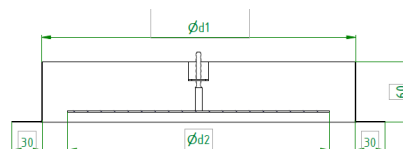
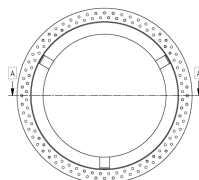
Application

Circular diffusers OD-10 are designed for ceiling installation in rooms with heights from 2.6 to 4 m and temperature difference between supply and room air of 10K.

By rotating the central disc, the discharge angle can be adjusted horizontally or vertically.



• The HIDDEN version is only available for the sizes 200-250-315



Size	d1	d2
1/200	313	261
2/250	398	325
3/315	448	370

Description

Diffuser housing is made of sheet aluminium, valve disc of pickled sheet steel. Diffuser is powder coated in RAL 9010 or upon customer's wish.

Component parts

1. Housing with connection valve
2. Disc control element
3. Spring
4. Holder
5. Safety rope

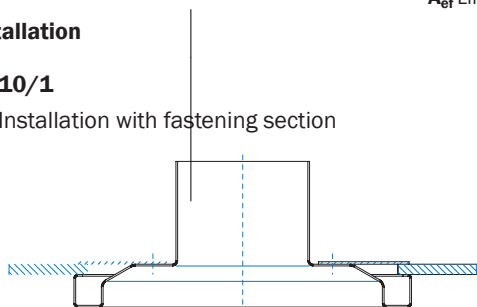
Size	ΦB	ΦD	ΦD1	ΦD2	C	F	A _{eff} s = -5	A _{eff} s = +5
80	197	78	128	163	25	20	0.00435	0.00498
100	215	98	146	181	25	20	0.00486	0.00556
125	249	123	180	215	25	20	0.00582	0.00666
160	308	158	204.5	264	35	25	0.01173	0.01236
200			313	261		60	0.01437	0.01514
250			398	325		60	0.02434	0.02507
315			448	448		60	0.03034	0.03119

A_{eff} Effective area (m²)

Installation

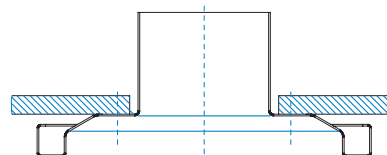
OD-10/1

- Installation with fastening section



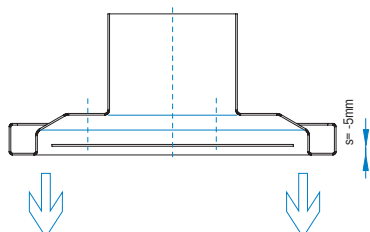
OD-10/2

- Direct installation in the ceiling with screws

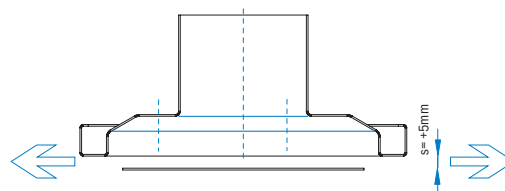


Set-up of the next valve disc

- Air jet direction by heating



- Air jet direction by cooling

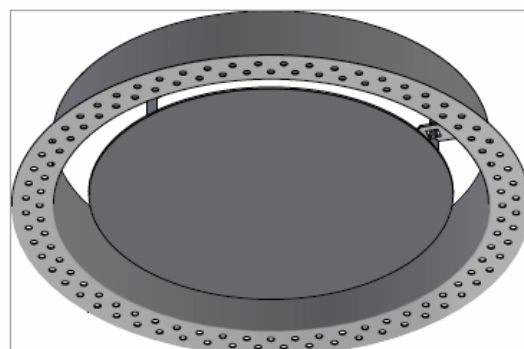


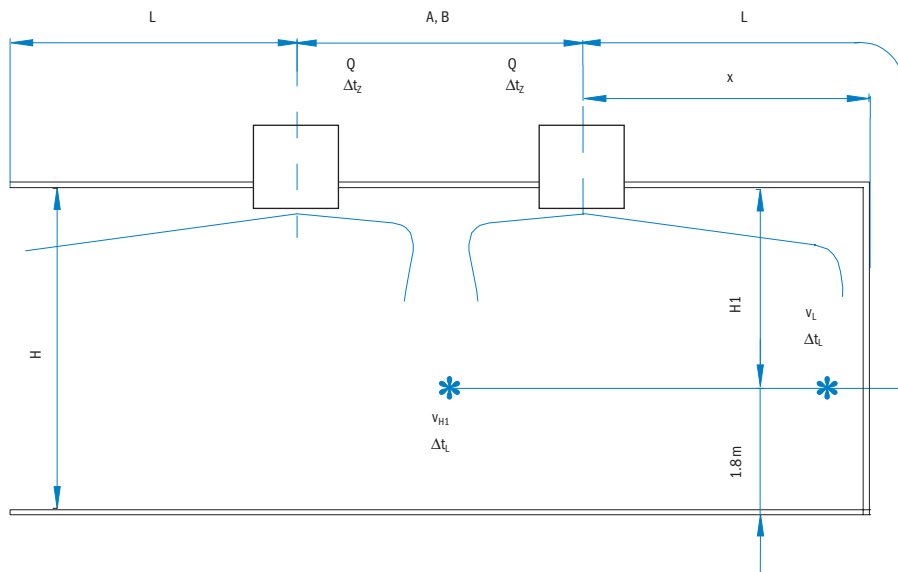
• Version HIDDEN Mod. OD-10IA-CRL

Ordering key

OD-10/1 Size 160

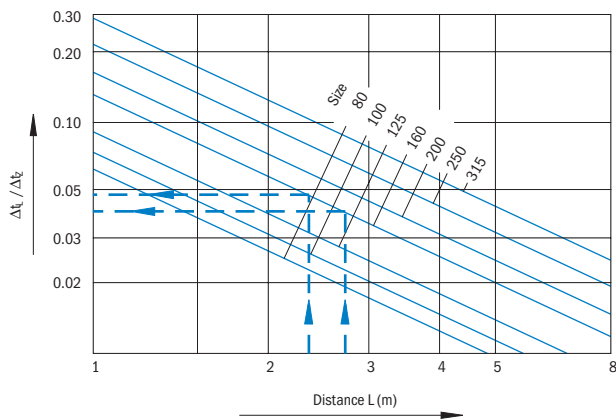
- 1 Installation with attaching section
- 2 Direct ceiling installation





Definition of symbols

Q (m³/h)	Air flow
x (m)	Horizontal distance to the wall
H (m)	Room height
H1 (m)	Distance between the ceiling and occupied zone
L (m)	Throw distance ($L = H1 + x$)
v_L (m)	Air velocity at the throw distance L
Δt_z (K)	Temperature difference between supply and room air
Δt_L (K)	Temperature difference between room air and air jet temperature
Δp (Pa)	Pressure drop
L_{WA} (dB(A))	Sound power level
v_{H1} (m/s)	Air velocity at the H1 distance
A, B (m)	Distance between two diffusers (by width and length)



Dim. S	Sizes 80, 100, 125	Sizes 160, 200	Sizes 250, 315	Correction factor
5	1.05	1.04	1.03	k1
10	0.95	0.97	0.98	k1
5	-6.0	-5.5	-5.0	k2
10	2.0	1.5	1.5	k2
5	1.17	1.11	1.08	k3
10	0.90	0.92	0.94	k3

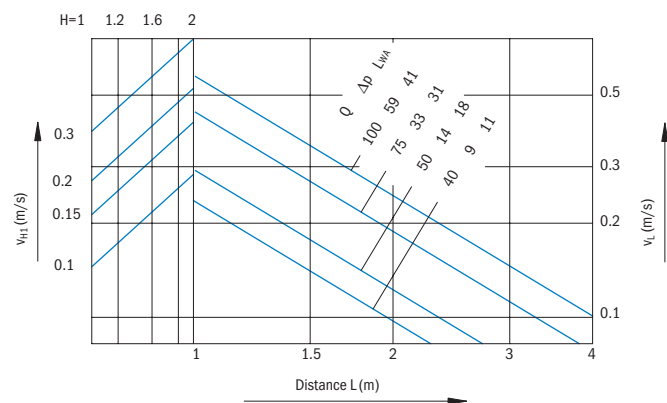
k1 Velocity corrections v_{H1} in v_L :
 $v_{H1} = (v_{H1} \text{ from diagram}) \times k1$
 $v_L = (v_L \text{ from diagram}) \times k1$

k2 Sound power corrections:
 $L_{WA} = (L_{WA} \text{ from diagram}) - k2$

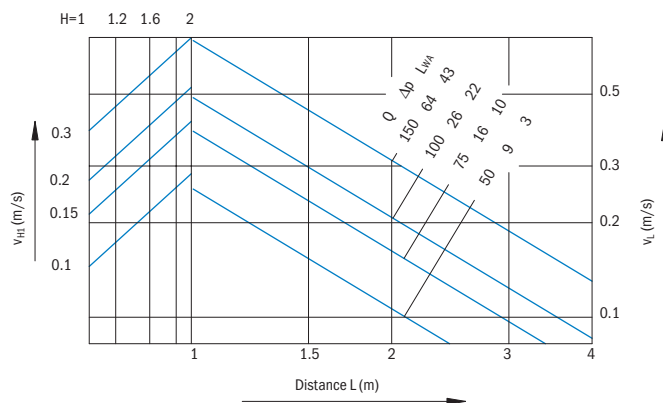
k3 Pressure drop corrections:
 $\Delta p = (\Delta p \text{ from diagram}) \times k3$

Technical data for horizontal discharge (central disc adjustment $s = 10 \text{ mm}$)

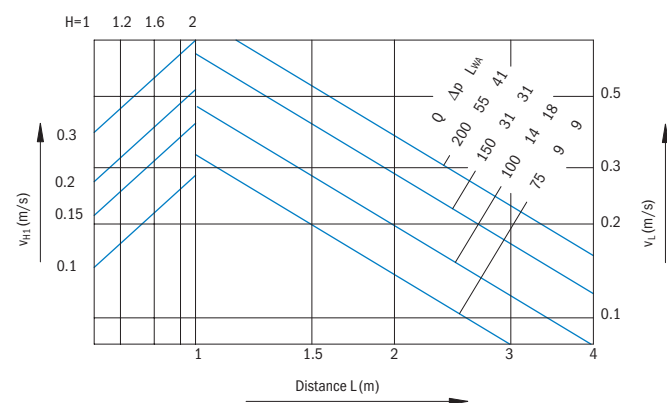
Size 80



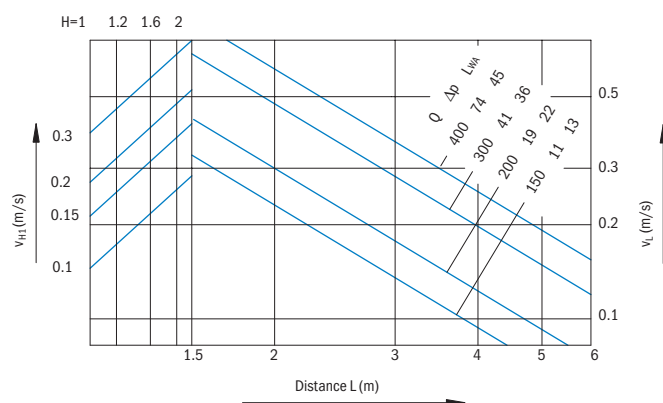
Size 100



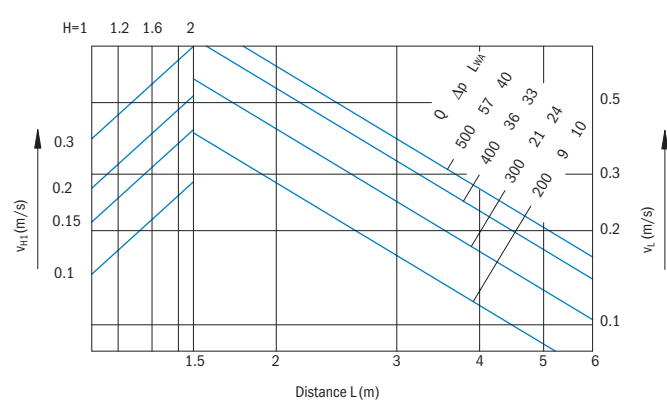
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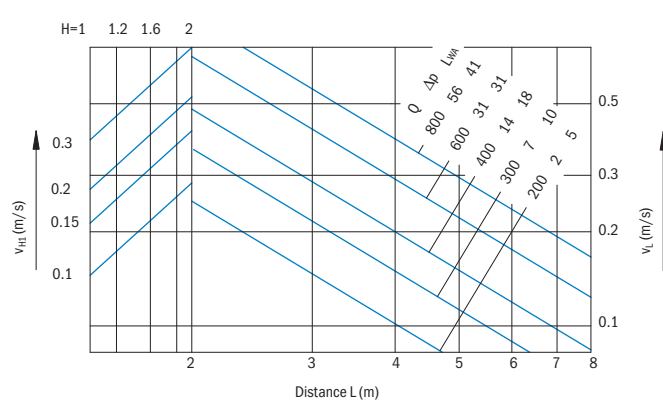
Size 160



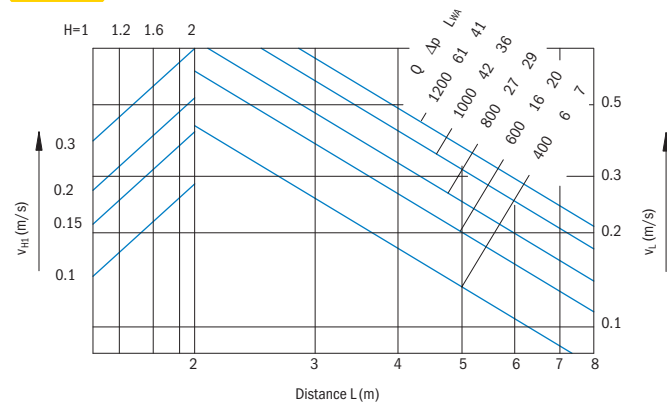
Size 200



Size 250



Size 315

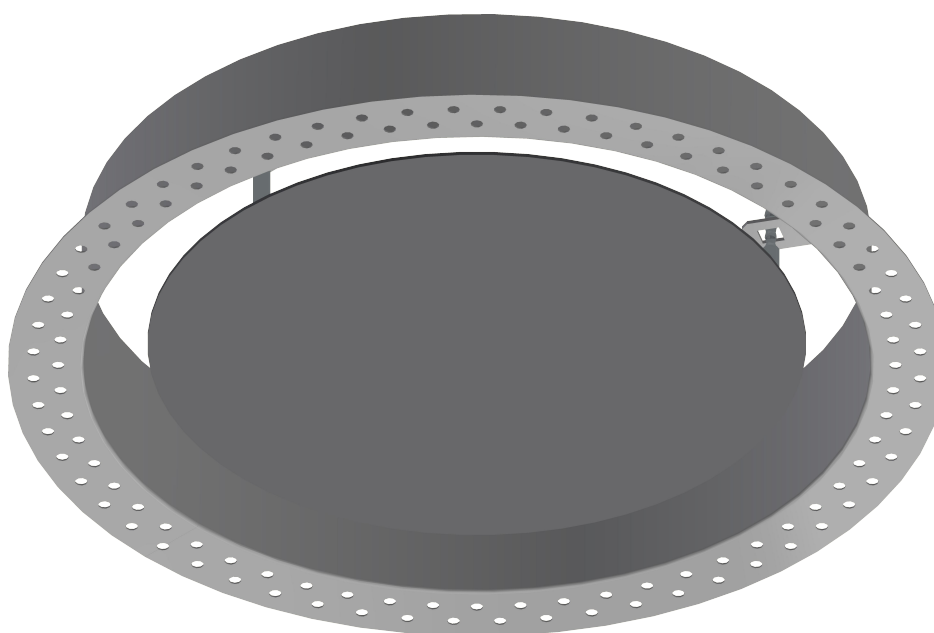


Technical data - Quick selection - SIMPLY 4.1

Size	d1	d2
1/200	313	261
2/250	398	325
3/315	448	370

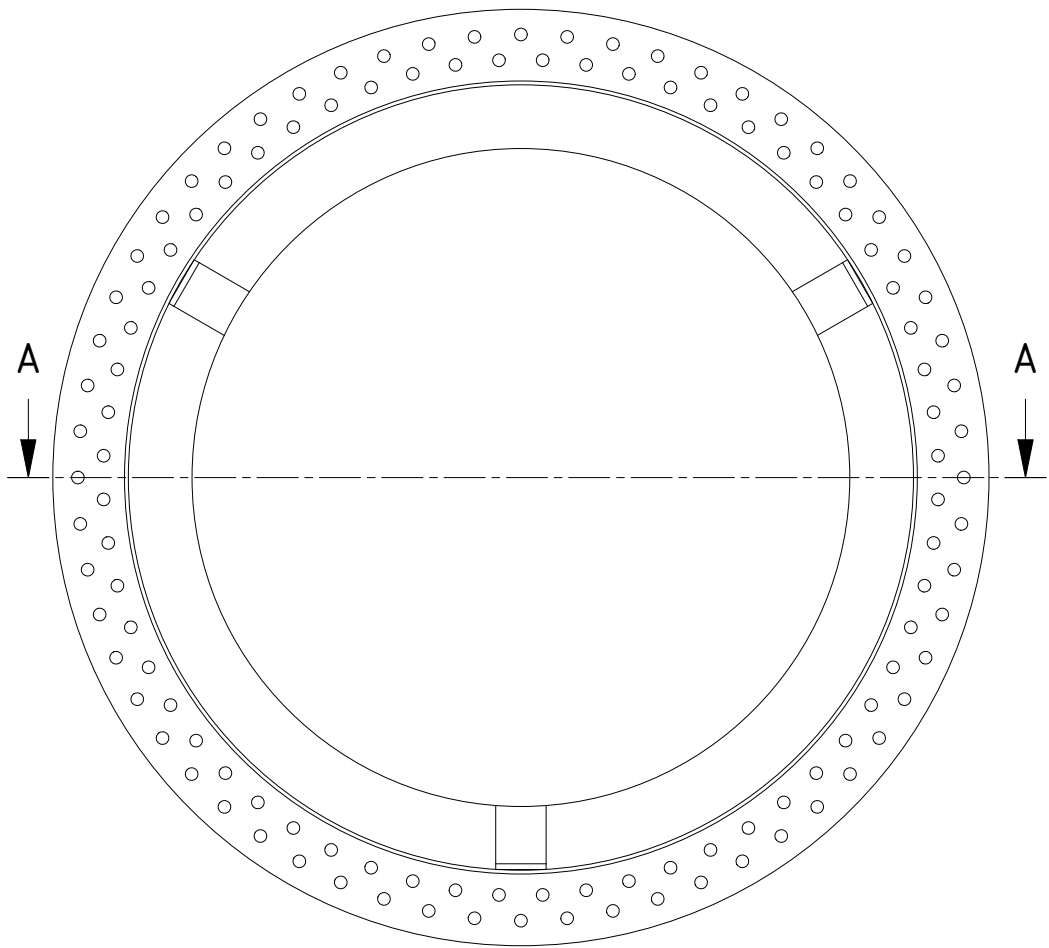
- The HIDDEN version is only available for the sizes 200-250-315

OD-10IA-CRL_200_ Caudal 250 m3h	250 m3/h	14 Pa	20 dB(A)	3 m/s
OD-10IA-CRL_200_ Caudal 300 m3h	300 m3/h	20 Pa	23 dB(A)	3 m/s
OD-10IA-CRL_200_ Caudal 400 m3h	400 m3/h	36 Pa	31 dB(A)	4 m/s
OD-10IA-CRL_200_ Caudal 450 m3h	450 m3/h	45 Pa	34 dB(A)	5 m/s
OD-10IA-CRL_250_ Caudal 450 m3h	450 m3/h	21 Pa	20 dB(A)	4 m/s
OD-10IA-CRL_250_ Caudal 500 m3h	500 m3/h	26 Pa	27 dB(A)	4 m/s
OD-10IA-CRL_250_ Caudal 550 m3h	500 m3/h	32 Pa	30 dB(A)	4 m/s
OD-10IA-CRL_250_ Caudal 600 m3h	600 m3/h	38 Pa	32 dB(A)	5 m/s
OD-10IA-CRL_315_ Caudal 600 m3h	600 m3/h	15 Pa	22 dB(A)	3 m/s
OD-10IA-CRL_315_ Caudal 700 m3h	740 m3/h	21 Pa	26 dB(A)	3 m/s
OD-10IA-CRL_315_ Caudal 800 m3h	800 m3/h	27 Pa	30 dB(A)	4 m/s
OD-10IA-CRL_315_ Caudal 900 m3h	900 m3/h	35 Pa	33 dB(A)	4 m/s
OD-10IA-CRL_315_ Caudal 1000 m3h	1000 m3/h	43 Pa	36 dB(A)	5 m/s

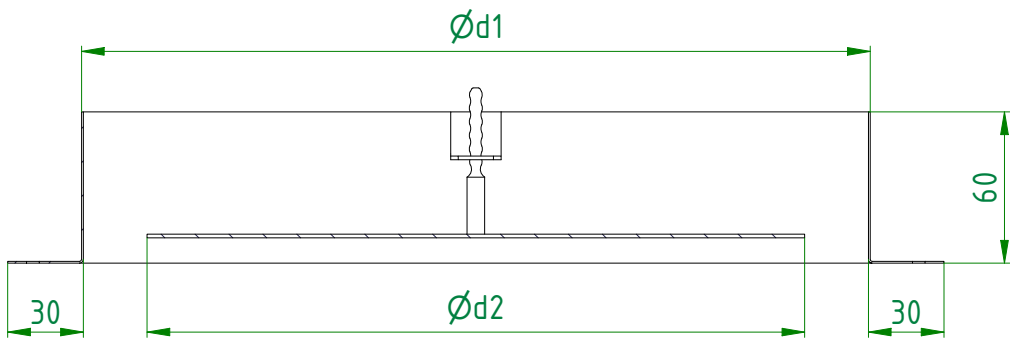


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A-A (1 : 3)

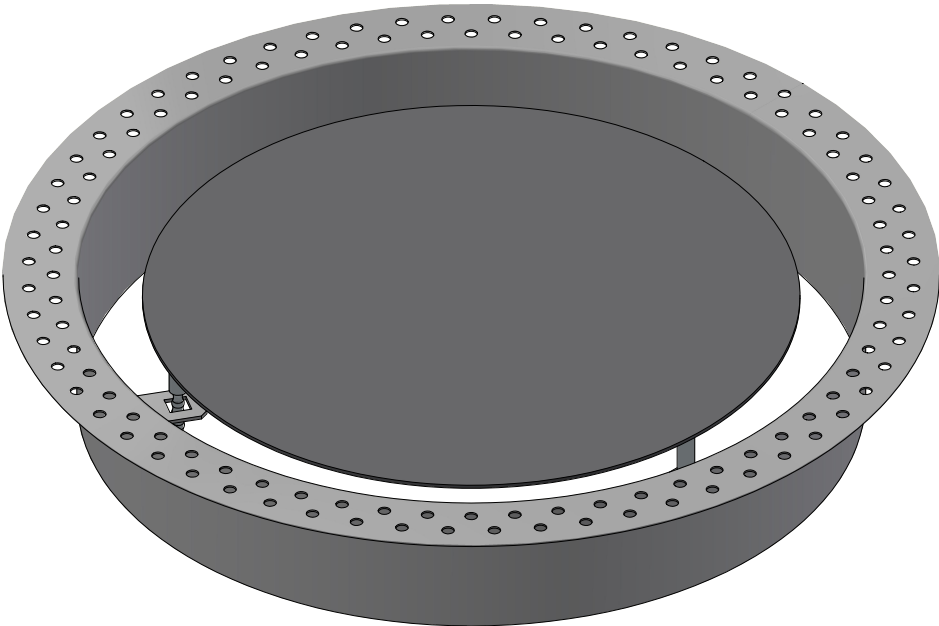


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dopustni odstopki za netolerirane mere /
deviation for untolerated dimensions

SIST ISO 2768: m

POGLED V IZOMETRIJI
ISOMETRIC VIEW



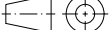
ZA POTRDITEV: Potrditi v 24 h od prejema! Po izteku 24 h si pridržujemo pravico do spremembe dobavnega roka.

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BESTÄTIGUNG ERFORDERLICH: Bitte beachten Sie, dass die Lieferfrist ab Eingang der Bestätigung unserer Zeichnungen gilt.

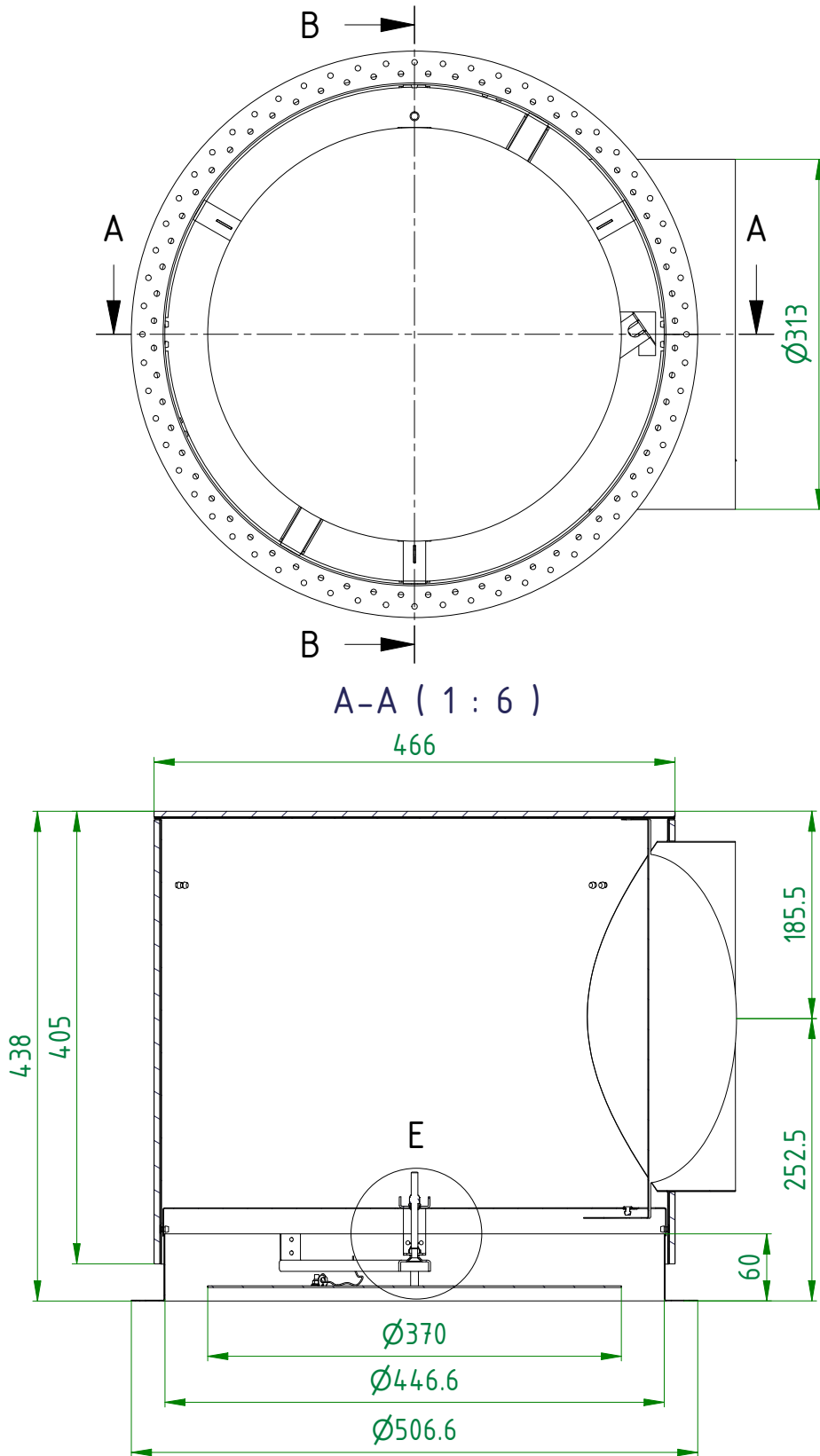
25.3.2025

Size	d1	d2
1/200	313	261
2/250	398	325
3/315	448	370

material / material		površinska zaščita / surface protection		obdelava / surface finish		način projekcije / projection type	
velikost / sheet size	A3	pripada / reference		list / sheet	1 / 1	merilo / scale	
konstruiral / drawn	25/03/2025	urupnik		OD-10IA			
pregledal / checked by							
tehнолог / approved							
teža / weight	N/A	ime datoteke / file name OD-10IA v. 1-200.iam		Sketch for confirmation			
sprememba / change							
datum sprem. / date of change							
				številka posla / order number		koda artikla / product code	

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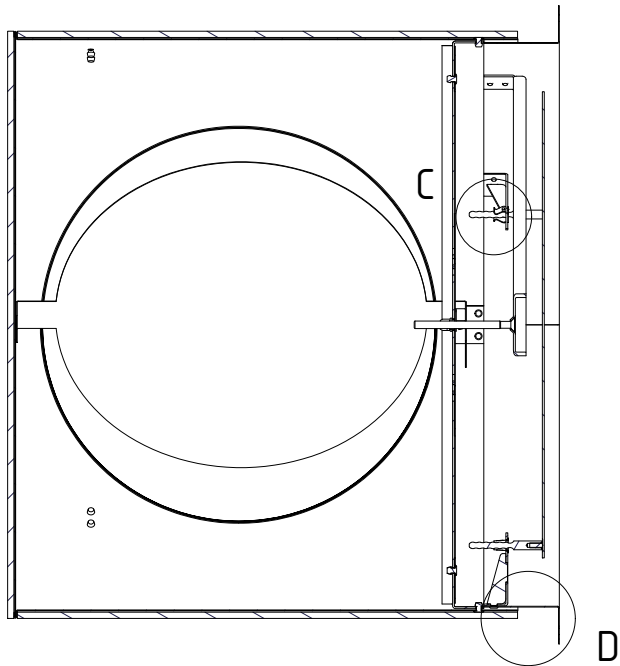
ZA POTRDITEV: Potrditi v 24 h od prejema! Po izteku 24 h si pridržujemo pravico do spremembe dobavnega roka.

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23.4.2025

B-B (1 : 6)

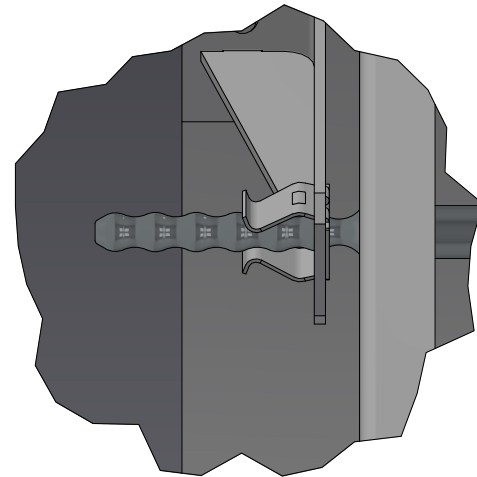


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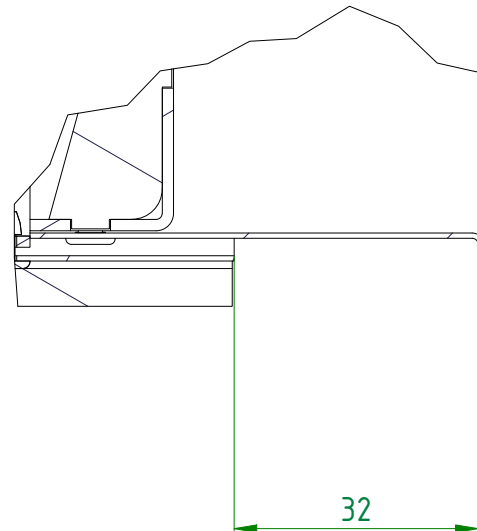
dopustni odstopki za netolerirane mere / deviation for untolerated dimensions

SIST ISO 2768: m

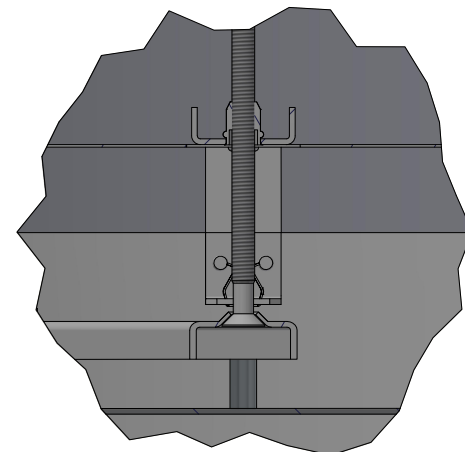
C (1 : 1)



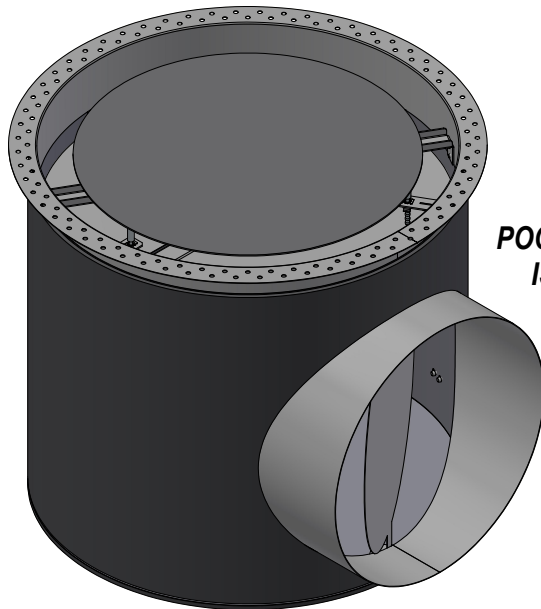
D (1 : 1)



E (1 : 2)



POGLED V IZOMETRIJI
ISOMETRIC VIEW



Datum veljavnosti od: 23/04/2025
Date of validity:

material / material		površinska zaščita / surface protection		obdelava / surface finish		način projekcije / projection type		
velikost / sheet size	A3	pripada / reference	list / sheet 1 / 1	merilo / scale				
konstruiral / drawn	23/04/2025	urupnik	OD-10IA/ZR/S/M/I5 3/315					
pregledal / checked by								
tehnolog / approved								
teža / weight	N/A	ime datoteke / file name 101-00000 - OD-10IA-ZR-S-M-I5 3-315.iam						
sprememba / change		številka posla / order number		koda artikla / product code				
datum sprem. / date of change		140096118		101-00000				