

# DECLARATION OF PERFORMANCE

No. 002-2020

1	Type:	<b>TurboDeflectors</b>
2	Product identification:	<b>Deflectors ROTADO, stainless steel models:</b> TNS-100, TNS-110, TNS-115, TNS-120, TNS-125, TNS-130, TNS-135, TNS-140, TNS-145, TNS-150, TNS-155, TNS-160, TNS-165, TNS-170, TNS-175, TNS-180, TNS-185, TNS-190, TNS-195, TNS-200, TNS-250, TNS-300, TNS-315, TNS-355, TNS-400, TNS-500, TNS-600, TNS-630, TNS-680, TNS-800
3	Standard	<b>TS 4861-001-24372456-2016</b>
4	Intended use:	<b>Product is intended for use as natural ventilation system element designed to efficiently draw exhaust air from a wide range of rooms and air cavities of structures, especially roofs</b>
5	Name and contact address of the manufacturer	<b>LLC "TURBODEFLEKTOR"</b> Office 2, d. 4, Cable passage, Cheboksary, 428022, Russian Federation. Tel.: +7 (800) 700-24-60, E-mail: <a href="mailto:mail@turbodeflector.ru">mail@turbodeflector.ru</a>
6	Name and contact address of the technical representative in EU	<b>SIA "CONCEPTUM"</b> Cesvainies Str. 4, Riga, LV-1073, Latvia Tel.: +371-677-95225, E-mail: <a href="mailto:conceptum.sia@gmail.com">conceptum.sia@gmail.com</a>
7	Testing procedure performed by:	<b>Building Research Institute – Certification Company, Ltd.</b> <b>Testing Laboratory No. 1234</b> accredited by CAI Address: Fr. Diviše 386, 104 00 Prague 10 Czech Republic <b>Test Report No. A 019/ 2020, DD 21.02.2020</b>

Performance of the **Deflectors ROTADO** according requirements of Company Standard – **TS 4861-001-24372456-2016**

<b>Turbo deflectors Ø 100 mm without reducer – additional resistance*</b>			
<b>Wind speed [m/s]</b>	<b>Static under pressure [Pa] – Ø 100 mm</b>	<b>Air flow rate [m³/h] – Ø 100 mm</b>	<b>Technical specification</b>
1.00	0.10	8.0	TS 4861-001-24372456-2016
2.30	0.30	18.1	
3.60	1.00	30.3	
4.10	1.30	36.2	
5.00	2.10	44.3	
6.10	3.25	57.6	
6.90	4.30	66.6	

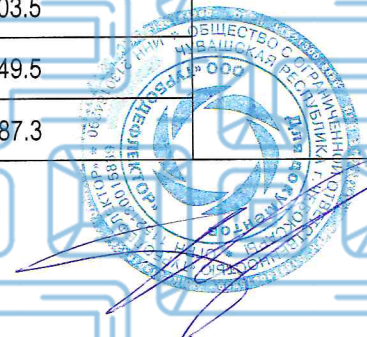


Turbodeflectors Ø 135 mm without reducer – additional resistance*			
Wind speed [m/s]	Static under pressure [Pa] – Ø 135 mm	Air flow rate [m³/h] – Ø 135 mm	Technical specification
1.00	0.00	15.8	TS 4861-001-24372456-2016
2.30	0.25	34.9	
3.60	0.50	53.9	
4.10	0.70	61.2	
5.00	1.10	72.4	
6.10	1.65	87.4	
6.90	2.10	99.0	

\*) On wind speed effect on under pressure Ø 100 mm and Ø 135 mm, additional resistance Ø 119 mm, Ø 99 mm, Ø 50 mm – information can be obtained in test report No. A 019/ 2020, DD 21.02.2020

Turbodeflectors Ø 180 mm without reducer – additional resistance**			
Wind speed [m/s]	Static under pressure [Pa] – Ø 180 mm	Air flow rate [m³/h] – Ø 180 mm	Technical specification
1.00	0.10	9,5	TS 4861-001-24372456-2016
2.30	0.15	36.5	
3.60	0.35	64.9	
4.10	0.45	74.8	
5.00	0.70	90.8	
6.10	1.10	111.6	
6.90	1.50	126.6	

Turbodeflectors Ø 250 mm without reducer – additional resistance**			
Wind speed [m/s]	Static under pressure [Pa] – Ø 250 mm	Air flow rate [m³/h] – Ø 250 mm	Technical specification
1.00	0.10	7.8	TS 4861-001-24372456-2016
2.30	0.25	73.9	
3.60	0.70	135.3	
4.10	0.95	161.0	
5.00	1.50	203.5	
6.10	2.40	249.5	
6.90	3.20	287.3	



Turbodeflectors Ø 315 mm without reducer – additional resistance**			
Wind speed [m/s]	Static under pressure [Pa] – Ø 315 mm	Air flow rate [m³/h] – Ø 315 mm	Technical specification
1.00	0.00	0.0	TS 4861-001-24372456-2016
2.30	0.15	74.5	
3.60	0.46	156.3	
4.10	0.70	188.2	
5.00	1.10	248.0	
6.10	1.80	314.3	
6.90	2.40	366.8	

Turbodeflectors Ø 400 mm without reducer – additional resistance**			
Wind speed [m/s]	Static under pressure [Pa] – Ø 400 mm	Air flow rate [m³/h] – Ø 400 mm	Technical specification
1.00	0.05	25.2	TS 4861-001-24372456-2016
2.30	0.25	157.5	
3.60	0.60	310.0	
4.10	0.75	361.2	
5.00	1.10	468.8	
6.10	1.60	593.7	
6.90	2.00	677.3	

\*\*/ On wind speed effect on under pressure Ø 180 mm, Ø 250 mm, Ø 315 mm and Ø 180 mm, additional resistance Ø 156 mm, Ø 199 mm, Ø 99 mm – information can be obtained in test report No. A 019/ 2020, DD 21.02.2020

Extrapolation on bigger turbodeflector diameters using regression equations without reduction

	Wind speed →	6,9 m/s	6,1 m/s	5,0 m/s	4,1 m/s	3,6 m/s	2,3 m/s
	Diameter mm	Air flow rate m³/h	Air flow rate m³/h	Air flow rate m³/h	Air flow rate m³/h	Air flow rate m³/h	Air flow rate m³/h
Measured values	400	663	581	456	360	302	150
	440	813	714	558	439	370	183
Extrapolation	500	1068	941	731	573	486	240
	550	1310	1156	895	700	596	294
Risk extrapolation	800	2908	2586	1977	1537	1325	654

8 The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 7. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 5.

Signed for and on behalf of the manufacturer by :

Cheboksary 30/04/2020

Issue place and date

Name and position

Signature

# DECLARATION OF PERFORMANCE

No. 001-2020

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2	Product identification:	<b>Deflectors ROTADO, galvanized steel models:</b> Tst-100, Tst-110, Tst-115, Tst-120, Tst-125, Tst-130, Tst-135, Tst-140, Tst-145, Tst-150, Tst-155, Tst-160, Tst-165, Tst-170, Tst-175, Tst-180, Tst-185, Tst-190, Tst-195, Tst-200, Tst-250, Tst-300, Tst-315, Tst-355, Tst-400, Tst-500, Tst-600, Tst-630, Tst-680, Tst-800  TAS-100, TAS-110, TAS-115, TAS-120, TAS-125, TAS-130, TAS-135, TAS-140, TAS-145, TAS-150, TAS-155, TAS-160, TAS-165, TAS-170, TAS-175, TAS-180, TAS-185, TAS-190, TAS-195, TAS-200, TAS-250, TAS-300, TAS-315, TAS-355, TAS-400, TAS-500, TAS-600, TAS-630, TAS-680, TAS-800
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Cheboksary 30/04/2020

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Issue place and date

Name and position

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Signature