

NOVA-D

Door Grille



Table of Contents

Description	3
Dimensions & Weights	5
Ordering Codes	8
Quick Selection	9
Technical Parameters	13
Installation	14
Transport, Storage and Operation	16
Supplement	17



Description

NOVA-D is a non-transparent diffusion grille. The product is intended for free air flow through both sides of the grille. The product is installed into doors or walls. The field of application is industrial and commercial premises with higher emphasis on appearance.

Highlights

- Lightweight construction
- Design with emphasized aesthetics

Design

NOVA-D is manufactured from anodized aluminium profiles. The product consists of a frame and 1 layer of fixed blades. The product is provided in anodized surface finish or powder painted to RAL9003 (signal white) as standard. Other RAL colours are available upon request.

Product Parts



PLACEHOLDER
picture

Legend

P1 NOVA-D

PLACEHOLDER
picture

PLACEHOLDER
picture

PLACEHOLDER
picture

PLACEHOLDER
picture

W	H	H ₁	A _v	m
mm			m ²	kg
200	100	91	0,005	0,3
	150	136	0,007	0,4
	200	181	0,009	0,5
300	100	91	0,007	0,5
	150	136	0,011	0,6
	200	181	0,015	0,8
	300	286	0,023	1,1
400	100	91	0,010	0,6
	150	136	0,015	0,8
	200	181	0,020	1,0
	300	286	0,032	1,4
	400	391	0,043	1,8
500	100	91	0,013	0,7
	150	136	0,019	0,9
	200	181	0,025	1,2
	300	286	0,040	1,7
	400	391	0,055	2,3
	500	491	0,070	2,8
600	100	91	0,015	0,8
	150	136	0,023	1,1
	200	181	0,031	1,4
	300	286	0,048	2,0
	400	391	0,066	2,7
	500	491	0,084	3,3
800	100	91	0,021	1,1
	150	136	0,031	1,5
	200	181	0,041	1,8
	300	286	0,065	2,6
	400	391	0,089	3,5
	500	491	0,114	4,3
1000	100	91	0,026	1,4
	150	136	0,039	1,8
	200	181	0,052	2,2
	300	286	0,082	3,3
	400	391	0,113	4,3
	500	491	0,143	5,3
1200	100	91	0,031	1,6
	150	136	0,047	2,1
	200	181	0,063	2,7
	300	286	0,099	3,9
	400	391	0,136	5,1
	500	491	0,172	6,3

W	H	H ₁	A _v	m
mm			m ²	kg
225	125	116	0,007	0,4
	225	211	0,012	0,7
325	125	116	0,011	0,6
	225	211	0,019	0,9
	325	316	0,028	1,3
425	125	116	0,014	0,8
	225	211	0,025	1,1
	325	316	0,037	1,6
	425	416	0,050	2,1
525	125	116	0,018	0,9
	225	211	0,031	1,4
	325	316	0,047	2,0
	425	416	0,062	2,5
	525	511	0,075	3,0
625	125	116	0,021	1,1
	225	211	0,037	1,6
	325	316	0,056	2,3
	425	416	0,075	2,9
	525	511	0,091	3,5
825	125	116	0,028	1,4
	225	211	0,050	2,1
	325	316	0,075	3,0
	425	416	0,099	3,8
	525	511	0,121	4,6
1025	125	116	0,036	1,7
	225	211	0,062	2,6
	325	316	0,093	3,6
	425	416	0,124	4,7
	525	511	0,151	5,6
1225	125	116	0,043	2,0
	225	211	0,075	3,1
	325	316	0,112	4,3
	425	416	0,149	5,6
	525	511	0,181	6,7

Ordering Codes

NOVA-D

Mounting

1 Screws

2 Glue

Dimensions ¹

W × H

Mounting frame

UR1 Narrow

UR2 Wide

Surface finish ²

AN Anodized

SW Signal white (RAL9003, gloss 30%)

RALXXXX Other RAL colour

NOTES:

1. Available dimension combinations are in the dimension table.
2. In case the surface finish is not specified in the ordering code, the product will be delivered anodized surface finish.

Example of the Ordering Code

NOVA-D-2-400×150-UR1-AN

An aluminium door grille with fixing to door using glue, intended for a structural opening with dimensions 400 mm × 150 mm, with a type 1 mounting frame.

Quick Selection

Air flow volume q_v at different A-weighted sound power levels L_{WA}

NOTE: The working points were **measured with open R1-NOVA damper**.

Item	25 dB(A)		30 dB(A)		35 dB(A)	
	m ³ /h	l/s	m ³ /h	l/s	m ³ /h	l/s
NOVA-D-1-200x100-UR1-SW	64	18	86	24	109	30
NOVA-D-1-200x150-UR1-SW	89	25	119	33	151	42
NOVA-D-1-200x200-UR1-SW	107	30	145	40	188	52
NOVA-D-1-300x100-UR1-SW	84	23	113	31	146	40
NOVA-D-1-300x150-UR1-SW	113	31	155	43	202	56
NOVA-D-1-300x200-UR1-SW	135	38	188	52	248	69
NOVA-D-1-300x300-UR1-SW	159	44	230	64	311	86
NOVA-D-1-400x100-UR1-SW	100	28	137	38	179	50
NOVA-D-1-400x150-UR1-SW	134	37	187	52	246	68
NOVA-D-1-400x200-UR1-SW	159	44	224	62	299	83
NOVA-D-1-400x300-UR1-SW	183	51	268	75	368	102
NOVA-D-1-400x400-UR1-SW	183	51	277	77	393	109
NOVA-D-1-500x100-UR1-SW	115	32	160	44	210	58
NOVA-D-1-500x150-UR1-SW	152	42	215	60	286	79
NOVA-D-1-500x200-UR1-SW	178	49	256	71	345	96
NOVA-D-1-500x300-UR1-SW	201	56	300	83	418	116
NOVA-D-1-500x400-UR1-SW	196	54	303	84	437	121
NOVA-D-1-500x500-UR1-SW	172	48	277	77	412	114
NOVA-D-1-600x100-UR1-SW	128	36	180	50	238	66
NOVA-D-1-600x150-UR1-SW	168	47	240	67	323	90
NOVA-D-1-600x200-UR1-SW	194	54	283	79	387	107
NOVA-D-1-600x300-UR1-SW	219	61	329	91	462	128
NOVA-D-1-600x400-UR1-SW	206	57	325	90	474	132
NOVA-D-1-600x500-UR1-SW	173	48	286	79	434	121
NOVA-D-1-800x100-UR1-SW	152	42	216	60	290	81
NOVA-D-1-800x150-UR1-SW	197	55	286	79	389	108
NOVA-D-1-800x200-UR1-SW	225	62	333	92	461	128
NOVA-D-1-800x300-UR1-SW	240	67	372	103	535	149
NOVA-D-1-800x400-UR1-SW	218	60	354	98	529	147
NOVA-D-1-800x500-UR1-SW	175	49	298	83	464	129
NOVA-D-1-1000x100-UR1-SW	170	47	247	69	336	93
NOVA-D-1-1000x150-UR1-SW	221	61	325	90	447	124
NOVA-D-1-1000x200-UR1-SW	254	70	378	105	528	147
NOVA-D-1-1000x300-UR1-SW	256	71	404	112	590	164
NOVA-D-1-1000x400-UR1-SW	223	62	370	103	565	157
NOVA-D-1-1000x500-UR1-SW	168	47	299	83	480	133
NOVA-D-1-1200x100-UR1-SW	192	53	278	77	379	105
NOVA-D-1-1200x150-UR1-SW	242	67	359	100	500	139
NOVA-D-1-1200x200-UR1-SW	271	75	413	115	586	163
NOVA-D-1-1200x300-UR1-SW	277	77	440	122	649	180
NOVA-D-1-1200x400-UR1-SW	229	64	387	108	600	167
NOVA-D-1-1200x500-UR1-SW	164	45	294	82	481	134
NOVA-D-1-225x125-UR1-SW	84	23	112	31	142	39

Item	25 dB(A)		30 dB(A)		35 dB(A)	
	m ³ /h	l/s	m ³ /h	l/s	m ³ /h	l/s
NOVA-D-1-225x225-UR1-SW	124	34	169	47	221	61
NOVA-D-1-325x125-UR1-SW	105	29	143	40	185	51
NOVA-D-1-325x225-UR1-SW	149	41	211	59	281	78
NOVA-D-1-325x325-UR1-SW	172	48	247	69	337	94
NOVA-D-1-425x125-UR1-SW	123	34	170	47	223	62
NOVA-D-1-425x225-UR1-SW	174	48	248	69	334	93
NOVA-D-1-425x325-UR1-SW	191	53	282	78	391	109
NOVA-D-1-425x425-UR1-SW	186	52	285	79	406	113
NOVA-D-1-525x125-UR1-SW	139	39	195	54	258	72
NOVA-D-1-525x225-UR1-SW	190	53	278	77	380	106
NOVA-D-1-525x325-UR1-SW	210	58	314	87	440	122
NOVA-D-1-525x425-UR1-SW	195	54	305	85	443	123
NOVA-D-1-525x525-UR1-SW	167	46	271	75	408	113
NOVA-D-1-625x125-UR1-SW	153	42	218	60	291	81
NOVA-D-1-625x225-UR1-SW	207	58	305	85	422	117
NOVA-D-1-625x325-UR1-SW	225	63	341	95	482	134
NOVA-D-1-625x425-UR1-SW	201	56	321	89	475	132
NOVA-D-1-625x525-UR1-SW	160	44	272	75	421	117
NOVA-D-1-825x125-UR1-SW	180	50	259	72	350	97
NOVA-D-1-825x225-UR1-SW	234	65	352	98	495	138
NOVA-D-1-825x325-UR1-SW	240	67	376	104	546	152
NOVA-D-1-825x425-UR1-SW	210	58	345	96	522	145
NOVA-D-1-825x525-UR1-SW	163	45	281	78	444	123
NOVA-D-1-1025x125-UR1-SW	204	57	295	82	403	112
NOVA-D-1-1025x225-UR1-SW	260	72	396	110	562	156
NOVA-D-1-1025x325-UR1-SW	260	72	411	114	605	168
NOVA-D-1-1025x425-UR1-SW	216	60	361	100	555	154
NOVA-D-1-1025x525-UR1-SW	150	42	273	76	447	124
NOVA-D-1-1225x125-UR1-SW	221	61	325	90	450	125
NOVA-D-1-1225x225-UR1-SW	276	77	427	119	615	171
NOVA-D-1-1225x325-UR1-SW	269	75	434	121	649	180
NOVA-D-1-1225x425-UR1-SW	216	60	371	103	581	161
NOVA-D-1-1225x525-UR1-SW	143	40	265	73	443	123

Air flow volume q_v at different A-weighted sound pressure levels L_{pA} with 10m² absorbtion area

NOTE: The working points were **measured with open R1-NOVA damper**.

Item	20 dB(A)		25 dB(A)		30 dB(A)	
	m ³ /h	l/s	m ³ /h	l/s	m ³ /h	l/s
NOVA-D-1-200x100-UR1-SW	60	17	82	23	104	29
NOVA-D-1-200x150-UR1-SW	83	23	112	31	144	40
NOVA-D-1-200x200-UR1-SW	99	28	137	38	179	50
NOVA-D-1-300x100-UR1-SW	78	22	107	30	139	38
NOVA-D-1-300x150-UR1-SW	105	29	146	41	192	53
NOVA-D-1-300x200-UR1-SW	126	35	177	49	235	65
NOVA-D-1-300x300-UR1-SW	146	41	215	60	294	82
NOVA-D-1-400x100-UR1-SW	93	26	130	36	170	47
NOVA-D-1-400x150-UR1-SW	124	34	176	49	233	65
NOVA-D-1-400x200-UR1-SW	146	41	210	58	283	79
NOVA-D-1-400x300-UR1-SW	168	47	250	69	347	96
NOVA-D-1-400x400-UR1-SW	166	46	257	71	368	102
NOVA-D-1-500x100-UR1-SW	107	30	151	42	199	55
NOVA-D-1-500x150-UR1-SW	141	39	202	56	271	75
NOVA-D-1-500x200-UR1-SW	163	45	239	66	326	91
NOVA-D-1-500x300-UR1-SW	183	51	279	77	393	109
NOVA-D-1-500x400-UR1-SW	177	49	281	78	408	113
NOVA-D-1-500x500-UR1-SW	154	43	254	71	382	106
NOVA-D-1-600x100-UR1-SW	118	33	169	47	225	63
NOVA-D-1-600x150-UR1-SW	155	43	225	62	305	85
NOVA-D-1-600x200-UR1-SW	177	49	264	73	365	101
NOVA-D-1-600x300-UR1-SW	199	55	306	85	433	120
NOVA-D-1-600x400-UR1-SW	184	51	299	83	441	123
NOVA-D-1-600x500-UR1-SW	154	43	261	72	401	111
NOVA-D-1-800x100-UR1-SW	139	39	202	56	274	76
NOVA-D-1-800x150-UR1-SW	181	50	268	74	368	102
NOVA-D-1-800x200-UR1-SW	205	57	309	86	433	120
NOVA-D-1-800x300-UR1-SW	217	60	343	95	500	139
NOVA-D-1-800x400-UR1-SW	194	54	324	90	491	136
NOVA-D-1-800x500-UR1-SW	155	43	270	75	426	118
NOVA-D-1-1000x100-UR1-SW	156	43	231	64	317	88
NOVA-D-1-1000x150-UR1-SW	202	56	302	84	421	117
NOVA-D-1-1000x200-UR1-SW	231	64	351	98	496	138
NOVA-D-1-1000x300-UR1-SW	231	64	371	103	549	153
NOVA-D-1-1000x400-UR1-SW	198	55	338	94	522	145
NOVA-D-1-1000x500-UR1-SW	147	41	269	75	439	122
NOVA-D-1-1200x100-UR1-SW	176	49	260	72	358	99
NOVA-D-1-1200x150-UR1-SW	221	61	334	93	470	130
NOVA-D-1-1200x200-UR1-SW	246	68	383	106	549	152
NOVA-D-1-1200x300-UR1-SW	249	69	404	112	603	167
NOVA-D-1-1200x400-UR1-SW	203	56	352	98	552	153
NOVA-D-1-1200x500-UR1-SW	143	40	264	73	438	122
NOVA-D-1-225x125-UR1-SW	78	22	106	29	136	38
NOVA-D-1-225x225-UR1-SW	115	32	160	44	209	58

Item	20 dB(A)		25 dB(A)		30 dB(A)	
	m ³ /h	l/s	m ³ /h	l/s	m ³ /h	l/s
NOVA-D-1-325x125-UR1-SW	98	27	135	38	176	49
NOVA-D-1-325x225-UR1-SW	137	38	198	55	266	74
NOVA-D-1-325x325-UR1-SW	157	44	232	64	318	88
NOVA-D-1-425x125-UR1-SW	113	31	161	45	212	59
NOVA-D-1-425x225-UR1-SW	160	45	232	65	315	88
NOVA-D-1-425x325-UR1-SW	174	48	263	73	368	102
NOVA-D-1-425x425-UR1-SW	169	47	264	73	379	105
NOVA-D-1-525x125-UR1-SW	129	36	184	51	245	68
NOVA-D-1-525x225-UR1-SW	174	48	259	72	358	100
NOVA-D-1-525x325-UR1-SW	191	53	291	81	413	115
NOVA-D-1-525x425-UR1-SW	176	49	281	78	413	115
NOVA-D-1-525x525-UR1-SW	149	41	248	69	377	105
NOVA-D-1-625x125-UR1-SW	141	39	204	57	275	76
NOVA-D-1-625x225-UR1-SW	189	53	285	79	397	110
NOVA-D-1-625x325-UR1-SW	205	57	316	88	451	125
NOVA-D-1-625x425-UR1-SW	181	50	295	82	440	122
NOVA-D-1-625x525-UR1-SW	142	39	247	69	388	108
NOVA-D-1-825x125-UR1-SW	165	46	242	67	330	92
NOVA-D-1-825x225-UR1-SW	213	59	327	91	465	129
NOVA-D-1-825x325-UR1-SW	216	60	346	96	509	141
NOVA-D-1-825x425-UR1-SW	187	52	315	87	483	134
NOVA-D-1-825x525-UR1-SW	143	40	254	70	407	113
NOVA-D-1-1025x125-UR1-SW	188	52	276	77	380	106
NOVA-D-1-1025x225-UR1-SW	235	65	366	102	525	146
NOVA-D-1-1025x325-UR1-SW	233	65	378	105	562	156
NOVA-D-1-1025x425-UR1-SW	192	53	328	91	512	142
NOVA-D-1-1025x525-UR1-SW	131	36	245	68	407	113
NOVA-D-1-1225x125-UR1-SW	201	56	303	84	424	118
NOVA-D-1-1225x225-UR1-SW	249	69	394	110	574	159
NOVA-D-1-1225x325-UR1-SW	240	67	398	111	601	167
NOVA-D-1-1225x425-UR1-SW	191	53	336	93	533	148
NOVA-D-1-1225x525-UR1-SW	124	34	236	66	402	112

Technical Parameters

Diagrams and technical parameters are available at design.systemair.com

Installation

IMPORTANT:

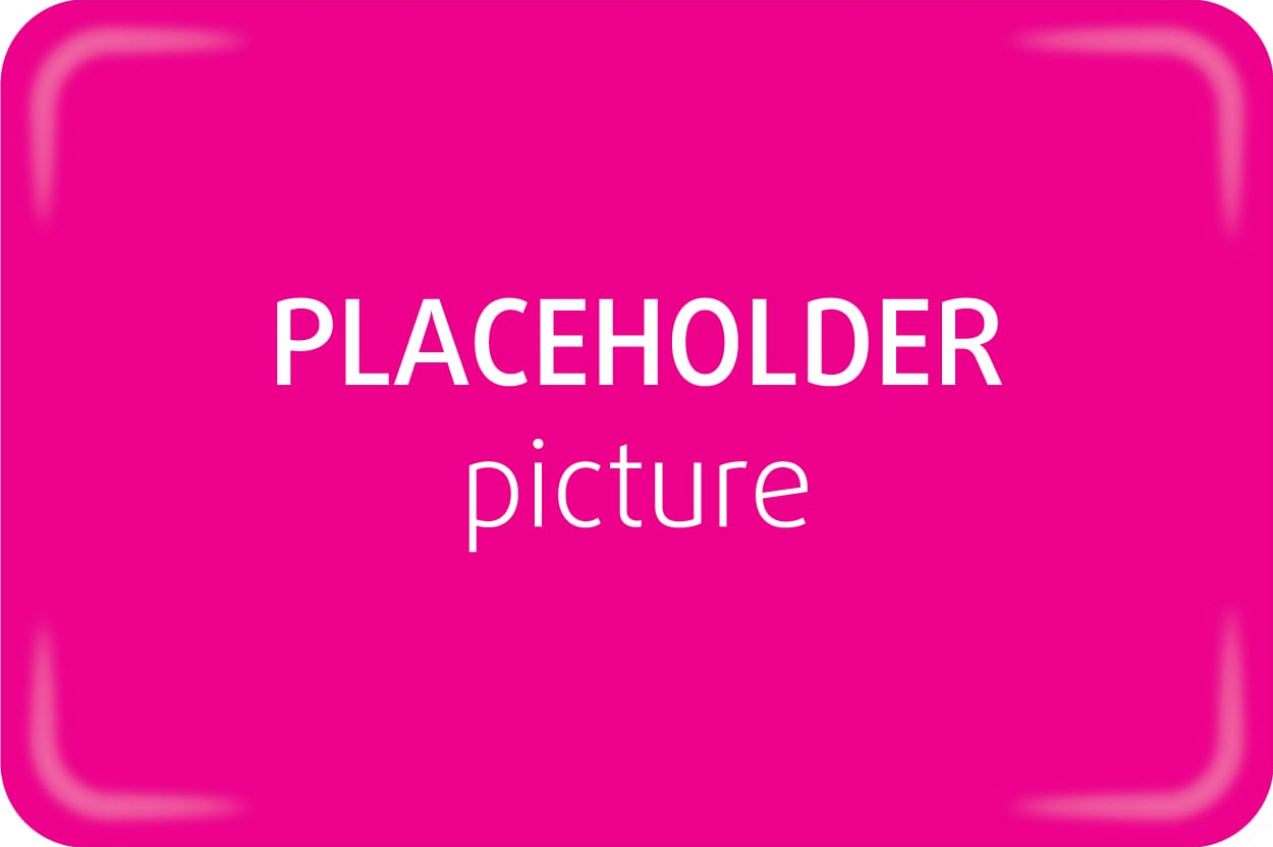
The mounting frame after installation must not be deformed by external forces (like by mounting into improperly formed and sized installation opening, etc.)

Mounting

1 Screws

2 Glue

1 Screws



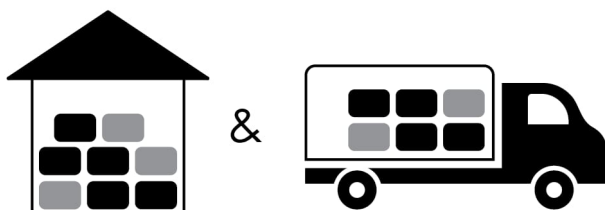
PLACEHOLDER
picture

NOTE: For mounting type "1" it is recommended to reduce the cut-out height dimension H by 10 mm. This helps fixing the grille in proper position.

2 Glue

PLACEHOLDER
picture

Transport, Storage and Operation



 °C -40 °C ... +50 °C

 % ≤ 95%



 °C -20 °C ... +70 °C

 % ≤ 95%

Supplement

Any deviations from the technical specifications contained herein and the terms should be discussed with the manufacturer. We reserve the right to make any changes to the product without prior notice, provided that these changes do not affect the quality of the product and the required parameters.

Current information on all products is available on design.systemair.com.



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