

zehnder

always the
best climate

Zehnder Alumline Extended Stock Range

Stock range of heating and cooling ceiling panels



Zehnder Alumline stock selection

Introduction

The stock profile has been compiled to support all project types, where a quick delivery time is required.

All models are offered, based on a lay-in grid version of the Zehnder Alumline radiant panel, which can also be used in a free-hanging applications if required. To complement the range, a simple hanger system and 1m length flexible hoses are also available.

For comprehensive information on the range of Alumline ceiling panels, consult the **Zehnder Alumline Technical brochure for heating and cooling ceiling modules.**

Specification

Panels manufactured according to the TAIM e.V. quality standard, version: November 1998. The material will be galvanised sheet steel with a minimum thickness of 0.6mm, with the lip on longitudinal side in line with static requirements.

Surface finished in RAL 9016 (white). Suitable for a T24 ceiling construction for heating and cooling ceiling modules. Panels supplied individually packaged in cardboard outer with protection film on front face of panel.

Design

The radiant panels will be 595 mm in width and lengths up to 2,992 mm in increments of 592 mm starting from 592 mm.

Installation

A minimum suspension height of 350 mm (bottom edge of bare ceiling to upper edge of heating and cooling ceiling) is recommended.

Insulation

Thermal foam insulation as standard.

Pipe register

Factory-integrated copper pipe register with large-area aluminium heat-conducting profiles from 12mm copper tubing according to EN 12735-2.

Performance

Maximum operating temperature: 83 °C

Maximum operating pressure: 10 bar

Flexible hoses

Steel braided 12 x 15 x 1,000mm length¹. Max. operating temperature of 80 °C and a max. operating pressure of 16 bar.

Plasterboard Frames

The Zehnder Plasterboard frames are available as standard to fit the standard Zehnder Alumline ceiling panel range (600 width x 600, 1,200, 1,800, 2,400 or 3,000mm lengths). The frame consists of a white powder-coated Aluminium T-section sides and ends which are joined at the corners with an internal bracket. The frame is secured by fixing through the upstand of the T-section into the subframe of the aperture of the plasterboard ceiling.

Bespoke plasterboard frames are available to order.

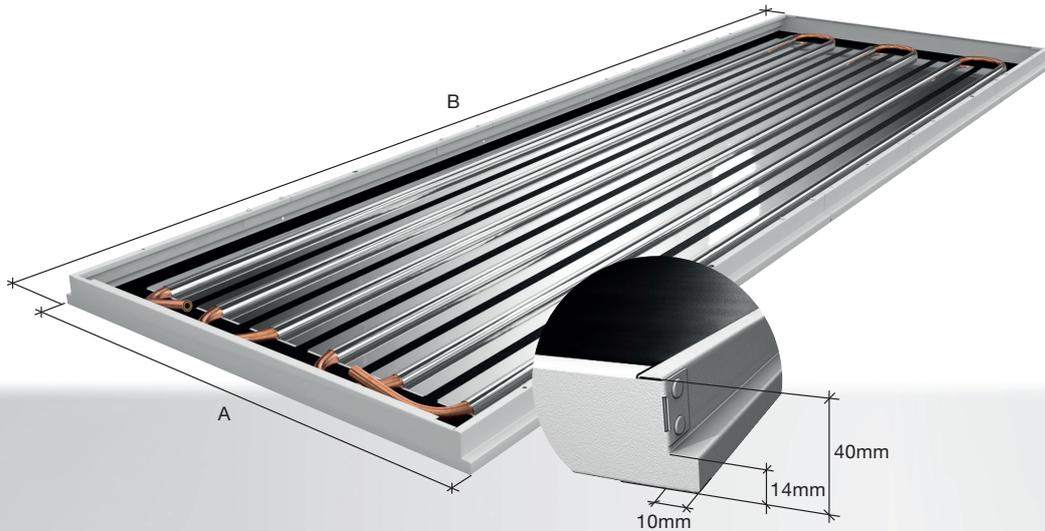
¹Data stated for DN10 variant. DN13 variant and corrugated pipe information available on request

Stock Panel Selection

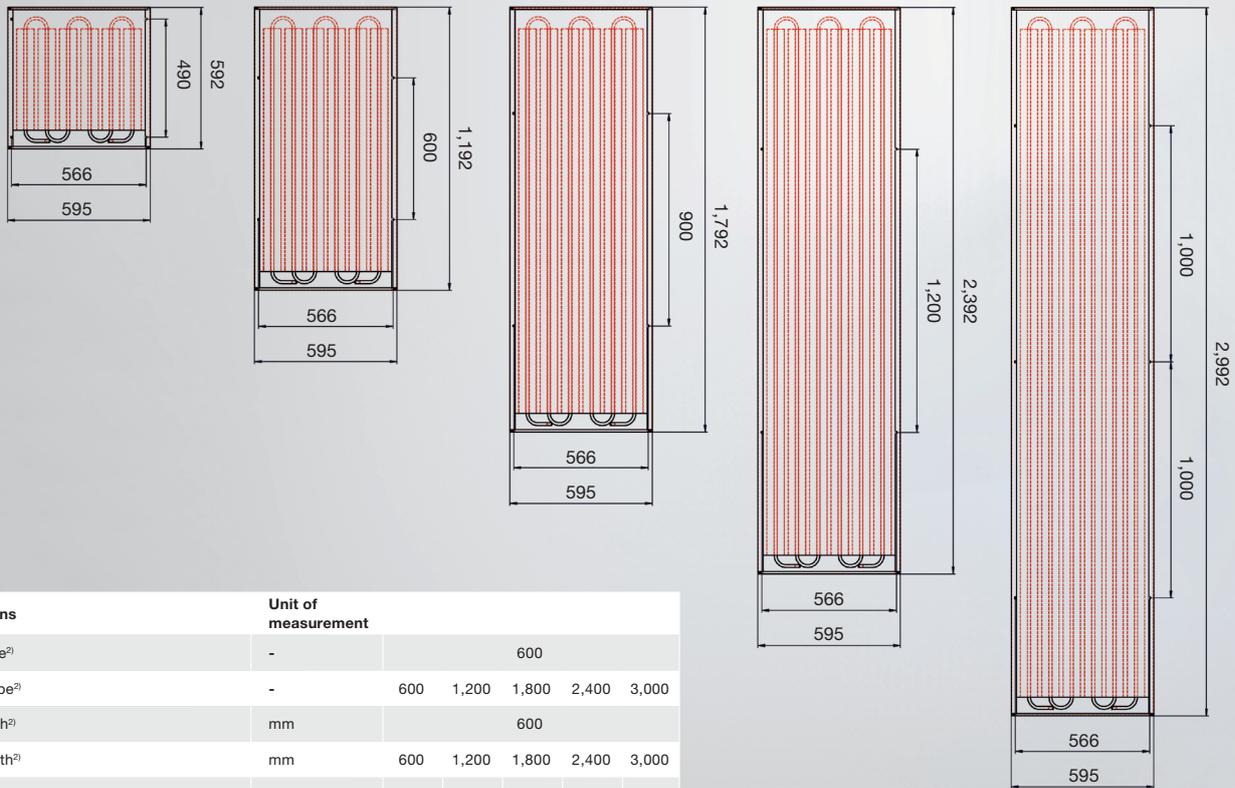
Product Code	Description	Panel Size (mm)	Output*
10020450	Alumline L592 x W595 CG RAL 9016 Same End Connections SP	592 x 595	176
10020449	Alumline L1192 x W595 CG RAL 9016 Same End Connections SP	1192 x 595	355
10020448	Alumline L1792 x W595 CG RAL 9016 Same End Connections SP	1792 x 595	533
10020447	Alumline L2392 x W595 CG RAL 9016 Same End Connections SP	2392 x 595	711
10020446	Alumline L2992 x W595 CG RAL 9016 Same End Connections SP	2992 x 595	888
10020599	Alumline L1192 x W595 CG RAL 9016 Opposite End Connections SP	1192 x 595	355
10020152	Alumline L1792 x W595 CG RAL 9016 Opposite End Connections SP	1792 x 595	533
10020153	Alumline L2392 x W595 CG RAL 9016 Opposite End Connections SP	2392 x 595	711
10020154	Alumline L2992 x W595 CG RAL 9016 Opposite End Connections SP	2992 x 595	888
10020214	2 x Armored Flexible Hose 12 x 15 x 1000 mm Stainless Steel Braiding		
10020213	2 x Armored Flexible Hose 12 x 15 x 1000 mm Stainless Steel Braiding: 4 x Hanging wire 1.5mm L: 1000 mm		
10020212	2 x Armored Flexible Hose 12 x 15 x 1000 mm Stainless Steel Braiding: 6 x Hanging wire 1.5mm L: 1000 mm		
10020155	2 x Armored Flexible Hose 12 x 12 x 1000 mm Stainless Steel Braiding		
TBA	2 x Hanging Wire 1.5 mm L: 1000 mm		

* Output based on Δt (K) 50 to EN 14037-3 standard for heating and cooling performance for ceiling panels

Module dimensions



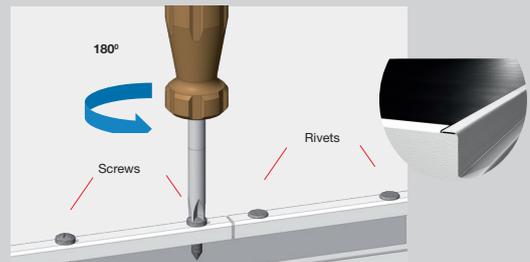
Version for closed ceilings



Dimensions	Unit of measurement						
Width type ²⁾	-	600					
Length type ²⁾	-	600	1,200	1,800	2,400	3,000	
Total width ²⁾	mm	600					
Total length ²⁾	mm	600	1,200	1,800	2,400	3,000	
Number of suspension points per module	Piece	4	4	4	4	6	
No. of parallel pipes	Piece	6					
Tube spacing	mm	90					
Pipe material / dimension (outside ø)	- / mm	D copper pipe / 12					
Panel material	-	Galvanised steel					
Parameters							
Max. operating temperature – standard version	°C	50					
Max. operating temperature – special version	°C	83					
Max. operating pressure ¹⁾	bar	6					
Weight							
Operating weight with water, without insulation	kg	4.04	7.78	11.53	15.27	19.01	
Operating weight with water, with insulation ³⁾	kg	4.19	8.12	12.04	15.96	19.88	
Water content	kg	0.39	0.75	1.11	1.47	1.83	

Anti-flec technology for lay-in modules

Not only for using Zehnder Aluline lay-in modules in high temperatures!

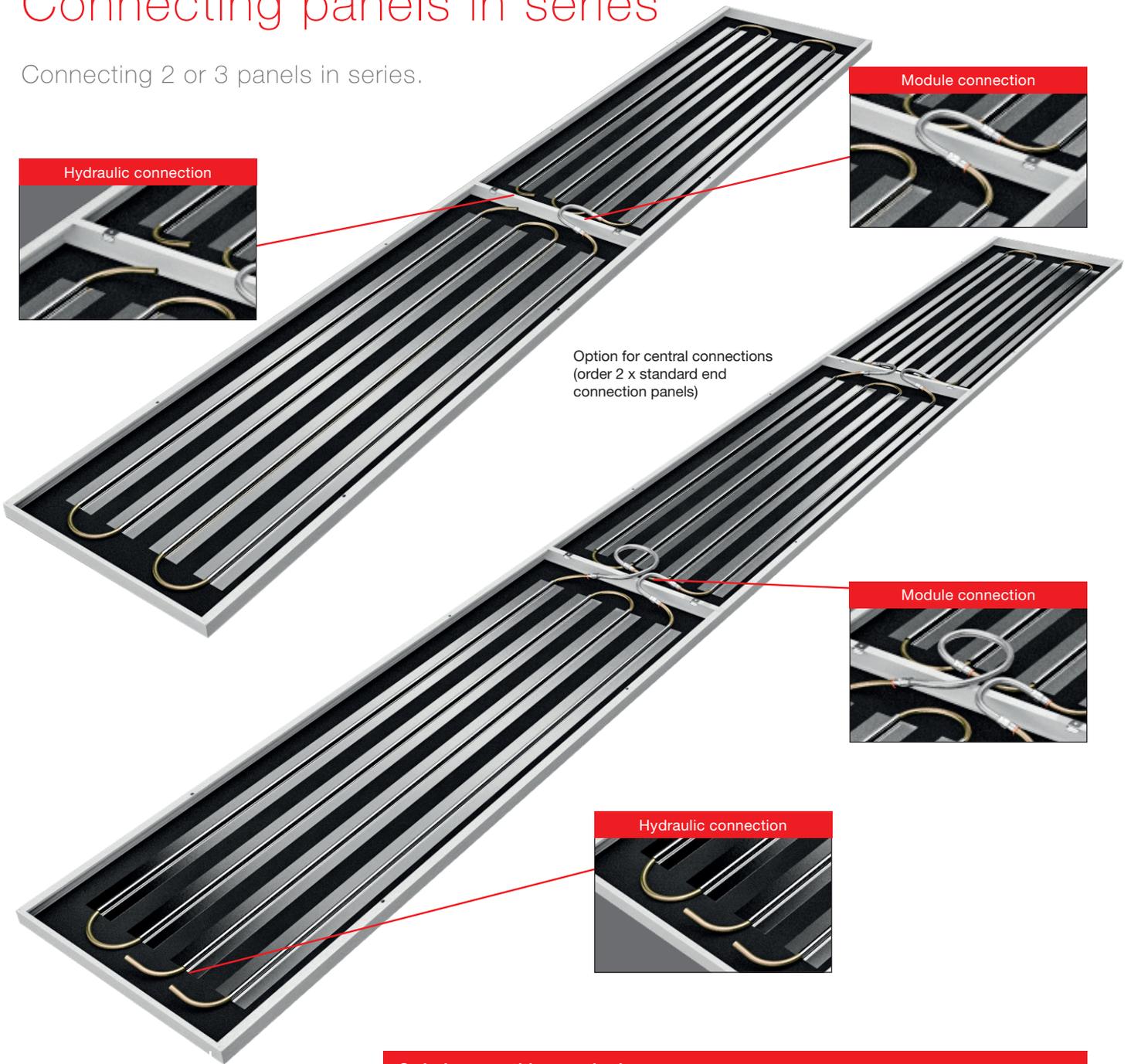


The Zehnder Aluline lay-in modules for grid ceilings are produced from a length of 1,500 mm with anti-flec technology. This ensures an even contact surface on the ceiling grid, even when heating.

After laying the modules in the grid, the anti-flec profiles are loosened in the ceiling grid by opening the screw pairs.

Connecting panels in series

Connecting 2 or 3 panels in series.



Option for central connections
(order 2 x standard end connection panels)

Ordering quantities required

Composite modules						Panels				Interconnectors		Flexible connections		Hanging wires	
Panel width	Nominal overall length	Panel 1	Panel 2	Panel 3	Output @ $\Delta T = 50K$	Part number	Qty	Part number	Qty	Part number	Qty	Part number	Qty	Part number	Qty
600	600	600			178	10020450	1					10020214	1	TBA	4
600	1200	1200			356	10020449	1					10020214	1	TBA	4
600	1800	1800			533	10020448	1					10020214	1	TBA	4
600	2400	2400			711	10020447	1					10020214	1	TBA	4
600	3000	3000			888	10020446	1					10020214	1	TBA	6
600	3600	1800	1800		1066	10020448	1	10020152	1	10020155	1	10020214	1	TBA	8
600	4200	2400	1800		1244	10020447	1	10020152	1	10020155	1	10020214	1	TBA	8
600	4800	2400	2400		1421	10020447	1	10020153	1	10020155	1	10020214	1	TBA	8
600	5400	3000	2400		1599	10020446	1	10020153	1	10020155	1	10020214	1	TBA	10
600	6000	3000	3000		1776	10020446	1	10020154	1	10020155	1	10020214	1	TBA	12
600	6600	1800	2400	2400	1954	10020448	1	10020153	2	10020155	2	10020214	1	TBA	12
600	7200	2400	2400	2400	2132	10020447	1	10020153	2	10020155	2	10020214	1	TBA	12
600	7800	3000	2400	2400	2309	10020446	1	10020153	2	10020155	2	10020214	1	TBA	14
600	8400	2400	3000	3000	2487	10020447	1	10020154	2	10020155	2	10020214	1	TBA	16
600	9000	3000	3000	3000	2664	10020446	1	10020154	2	10020155	2	10020214	1	TBA	18

Heating and cooling performance

The heating and cooling performance values of Zehnder Alumline are measured based on EN 14037-3 (heating) and EN 14240 (cooling).

Thermal outputs for 6-pipe activation										
Sail module / ceiling sail with insulation						Sail module / ceiling sail without insulation				
Dimensions	600 x 600	600 x 1200	600 x 1800	600 x 2400	600 x 3000	600 x 600	600 x 1200	600 x 1800	600 x 2400	600 x 3000
Δt (K)	W	W	W	W	W	W	W	W	W	W
70	243	518	792	1066	1340	283	602	921	1240	1559
68	236	501	767	1033	1299	274	583	892	1201	1510
66	228	485	742	1000	1257	265	564	863	1162	1461
64	221	469	718	967	1215	256	546	835	1124	1413
62	213	453	693	934	1174	248	527	806	1085	1365
60	206	437	669	901	1132	239	508	778	1047	1317
58	198	421	645	868	1091	230	490	749	1009	1269
56	191	405	620	835	1050	222	471	721	971	1221
55	187	399	610	821	1032	218	463	709	955	1200
54	183	390	596	803	1009	213	453	693	933	1173
52	176	374	572	770	968	204	435	665	895	1126
50	168	358	548	738	928	196	416	637	858	1079
48	161	343	524	706	887	187	398	609	820	1031
46	154	327	500	673	847	179	380	582	783	985
44	146	311	476	642	807	170	362	554	746	938
42	139	296	453	610	767	162	344	527	709	891
40	132	281	429	578	727	153	326	499	672	845
38	125	265	406	546	687	145	308	472	635	799
36	118	250	383	515	648	137	291	445	599	753
34	110	235	359	484	608	128	273	418	563	707
32	103	220	336	453	569	120	256	391	527	662
30	96	205	313	422	530	112	238	364	491	617
28	89	190	291	391	492	104	221	338	455	572
26	82	175	268	361	454	96	204	312	420	527
24	75	160	246	331	416	88	187	285	384	483
22	69	146	223	301	378	80	170	260	349	439
20	62	131	201	271	340	72	153	234	315	396
18	55	117	179	241	303	64	136	208	281	353
16	48	103	158	212	267	56	120	183	247	310
14	42	89	136	183	230	49	103	158	213	268
12	35	75	115	155	195	41	87	134	180	226
10	29	62	94	127	160	34	72	110	148	185

Heat outputs may vary if ceiling panels are integrated within ceiling grid.

Cooling capacities for 6-pipe activation										
Sail module / ceiling sail with insulation						Sail module / ceiling sail without insulation				
Dimensions	600 x 600	600 x 1200	600 x 1800	600 x 2400	600 x 3000	600 x 600	600 x 1200	600 x 1800	600 x 2400	600 x 3000
Δt (K)	W	W	W	W	W	W	W	W	W	W
15	56	123	188	253	319	62	131	200	270	339
14	54	114	175	235	296	57	122	186	250	315
13	50	106	161	217	273	53	112	172	231	290
12	46	97	148	200	251	48	103	157	212	266
11	42	88	135	182	229	44	94	143	193	242
10	38	80	122	164	206	40	84	129	174	218
9	34	71	109	147	184	35	75	115	155	195
8	30	63	96	129	163	31	66	101	136	171
7	26	54	83	112	141	27	57	88	118	148
6	22	46	71	95	120	23	48	74	100	125
5	18	38	58	78	98	19	40	61	82	103
4	14	30	46	62	78	15	31	48	64	81
3	10	22	34	45	57	11	23	35	47	59
2	7	14	22	29	37	7	15	22	30	38
1	3	7	10	14	18	3	7	11	14	18

ALWAYS THE BEST CLIMATE

“We strive to improve the quality of life by providing the finest indoor climate solutions.”



Excellent team

Every day we combine passion, expert knowledge and commitment to give you the best results.



Great solutions, products and services

Great products and unique service for an energy-efficient, healthy and comfortable indoor climate.

WE ARE THE SPECIALISTS FOR A HEALTHY, COMFORTABLE AND ENERGY-EFFICIENT

The broad and clearly structured portfolio from the Zehnder Group is split into four product lines. Consequently, we can provide our customers with the right product, perfect system and matching service for all types of projects – from new build to renovations, single or multi-occupancy homes, as well as commercial projects. This variety ensures that our wealth of experience is continuously expanding, providing tangible added value to our customers on a daily basis.



Decorative radiators

Our individual decorative radiators for living and bathrooms make a home not only warmer but also more attractive. Created by renowned designers, they impress with excellent functionality.

OUR BRANDS REPRESENT INNOVATION, QUALITY AND DESIGN



The Zehnder brand offers excellent indoor climate solutions within the product lines of decorative radiators, comfortable indoor ventilation, heating and cooling ceiling systems and clean air solutions.

INNOVATION OVER 4 GENERATIONS



First choice for customers

Always close to the needs of our customers, to grow with you and overcome all challenges together.

MANUFACTURER OF THE WORLD'S

1st

STEEL AND BATHROOM RADIATORS

REPRESENTED IN MORE THAN

70 COUNTRIES

AROUND

3,500

EMPLOYEES

16 OF OUR OWN PRODUCTION PLANTS IN EUROPE, NORTH AMERICA AND CHINA

INNOVATION SINCE **1895**

1,200 PATENTS AND DESIGN RIGHTS THROUGHOUT THE WORLD

AROUND **20,000** TRAINED CUSTOMERS PER YEAR

INDOOR CLIMATE



Comfortable indoor ventilation

Our comfortable indoor ventilation is energy-efficient and provides a healthy indoor climate. It promotes the wellbeing of the occupants and increases the value of the property.



Heating and cooling ceiling systems

Zehnder ceiling systems are convenient and energy-efficient for heating and cooling. They are perfectly attuned to the relevant environment.



Clean air solutions

Clean air systems from Zehnder reduce the level of dust in the air, create a healthier working environment and reduce the amount of cleaning required.



The Greenwood Airvac brand offers a range of low energy, smart residential ventilation solutions from intermittent extract fans to whole house ventilation with heat recovery.

BEST QUALITY CERTIFICATES

Zehnder Group products are frequently awarded prizes for design and innovative technology.



reddot design award winner 2018

