

The SRA is a square or rectangular high induction diffuser made to address the ventilation needs of spaces with low and medium heights.

The SRA diffuser is made of galvanized steel covered with powder coated paint. The standard manufacture size is 1500 mm (57 in.) long. Alternatively, it is available in different lengths to meet your needs

It is ideal for applications where the technology must be not only efficient but also integrated into the architectural design.

Integrated eccentric rollers and/or nozzle rollers, the rectangular or square SRA diffuser offers a multitude of air direction possibilities.

All air conditioning and heating solutions are found in one application which combines technology, aesthetics and comfort.

Benefits

- High induction diffuser which allows homogeneity of the air in a room: the temperature, humidity and air density.
- Increased comfort in the occupied zone
 - Comfortable movement of air
 - Low temperature differences
 - Low noise
- Eccentric rollers allow an adjustment of the airflow in a 180° range
- Possibility to change the direction of air flow after installation..
- Possibility of reducing the total airflow up to 30% in VAV.
- Make it possible to eliminate the heating baseboard through heating by the diffuser
- Simplify the ventilation network and reduces installation costs
- Easy adaption to systems with variable or constant airflow.

Easy to maintain

- Powder coated paint which minimizes dust collection and makes it easy to clean (Swiffer)
- Low accumulation of dust in the interior because the dust is purged by the slots.

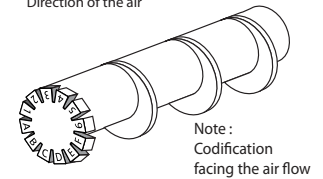
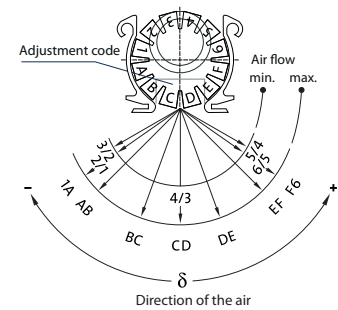
Durability

- The powder coated paint prevents chipping
- The steel suspension rail and duct in galvanized metal covered with a powder coated paint.

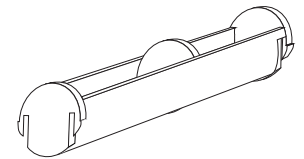
Easy installation

- Installed using a suspension rail
- No sealing required
- Fewer suspension rods and installation screws.

Eccentric roller



Nozzle roller



Composition

The SRA diffuser is a smooth diffuser with rectangular sections on which the slots are mounted in the direction of the length. The number of slots is determined by the quantity of air flow and by the dimensions of the duct.

The slots contain 100 mm long ABS eccentric rollers or ABS nozzle rollers (black, or white). The SRA diffuser are available in many dimension, see page 9 of the catalog.

The eccentric rollers are provided with alphanumeric guides which allow adjustment of the airflow pattern across a 180° range.

Passive ducts without slots are available in the same dimensions as the active SRAs in order to ensure the uniformity of the duct network

Dimensions and weight

Width in mm	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
	152	203	254	305	356	406	457	508	559	610	660	711	762	813	864	914	965	1016	1067	1118	1168	1219
Height in mm	Kg																					
6	152	N/A	7,93	9,00	10,07	11,14	12,20	13,27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8	203	7,93	9,00	10,07	11,14	12,20	13,27	14,34	15,40	16,47	17,54	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10	254	9,00	10,07	11,14	12,20	13,27	14,34	15,40	16,47	17,54	18,61	23,17	24,43	25,69	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12	305	10,07	11,14	12,20	13,27	14,34	15,40	16,47	17,54	18,61	23,17	24,43	25,69	26,94	28,20	29,46	30,71	N/A	N/A	N/A	N/A	N/A
14	356	11,14	12,20	13,27	14,34	15,40	16,47	17,54	18,61	23,17	24,43	25,69	26,94	28,20	29,46	30,71	31,97	33,23	34,48	35,74	N/A	N/A
16	406	12,20	13,27	14,34	15,40	16,47	17,54	18,61	23,17	24,43	25,69	26,94	28,20	29,46	30,71	31,97	33,23	34,48	35,74	37,00	38,26	39,51
18	457	13,27	14,34	15,40	16,47	17,54	18,61	23,17	24,43	25,69	26,94	28,20	29,46	30,71	31,97	33,23	34,48	35,74	37,00	38,26	39,51	40,77
20	508	N/A	15,40	16,47	17,54	18,61	23,17	24,43	25,69	26,94	28,20	29,46	30,71	31,97	33,23	34,48	35,74	37,00	38,26	39,51	40,77	42,03
22	559	N/A	16,47	17,54	18,61	23,17	24,43	25,69	26,94	28,20	29,46	30,71	31,97	33,23	34,48	35,74	37,00	38,26	39,51	40,77	42,03	43,28
24	610	N/A	17,54	18,61	23,17	24,43	25,69	26,94	28,20	29,46	30,71	31,97	33,23	34,48	35,74	37,00	38,26	39,51	40,77	42,03	43,28	44,54
26	660	N/A	N/A	23,17	24,43	25,69	26,94	28,20	29,46	30,71	31,97	33,23	34,48	35,74	37,00	38,26	39,51	40,77	42,03	43,28	44,54	45,80
28	711	N/A	N/A	24,43	25,69	26,94	28,20	29,46	30,71	31,97	33,23	34,48	35,74	37,00	38,26	39,51	40,77	42,03	43,28	44,54	45,80	47,05
30	762	N/A	N/A	25,69	26,94	28,20	29,46	30,71	31,97	33,23	34,48	35,74	37,00	38,26	39,51	40,77	42,03	43,28	44,54	45,80	47,05	48,31
32	813	N/A	N/A	N/A	28,20	29,46	30,71	31,97	33,23	34,48	35,74	37,00	38,26	39,51	40,77	42,03	43,28	44,54	45,80	47,05	48,31	49,57
34	864	N/A	N/A	N/A	29,46	30,71	31,97	33,23	34,48	35,74	37,00	38,26	39,51	40,77	42,03	43,28	44,54	45,80	47,05	48,31	49,57	50,82
36	914	N/A	N/A	N/A	30,71	31,97	33,23	34,48	35,74	37,00	38,26	39,51	40,77	42,03	43,28	44,54	45,80	47,05	48,31	49,57	50,82	52,08
38	965	N/A	N/A	N/A	N/A	33,23	34,48	35,74	37,00	38,26	39,51	40,77	42,03	43,28	44,54	45,80	47,05	48,31	49,57	50,82	52,08	53,34
40	1016	N/A	N/A	N/A	N/A	34,48	35,74	37,00	38,26	39,51	40,77	42,03	43,28	44,54	45,80	47,05	48,31	49,57	50,82	52,08	53,34	54,60
42	1067	N/A	N/A	N/A	N/A	35,74	37,00	38,26	39,51	40,77	42,03	43,28	44,54	45,80	47,05	48,31	49,57	50,82	52,08	53,34	54,60	55,85
44	1118	N/A	N/A	N/A	N/A	N/A	38,26	39,51	40,77	42,03	43,28	44,54	45,80	47,05	48,31	49,57	50,82	52,08	53,34	54,60	55,85	57,11
46	1168	N/A	N/A	N/A	N/A	N/A	39,51	40,77	42,03	43,28	44,54	45,80	47,05	48,31	49,57	50,82	52,08	53,34	54,60	55,85	57,11	58,37
48	1219	N/A	N/A	N/A	N/A	N/A	40,77	42,03	43,28	44,54	45,80	47,05	48,31	49,57	50,82	52,08	53,34	54,60	55,85	57,11	58,37	59,62

Codification

SRA

1000 (800), 1450 (1300)

0800, 0900, 1000, 1100, 1200, 1300

152*, 203, 254, 305, 356, 406, 457, 508, 559, 610, 660, 711, 762, 813, 864, 914, 965, 1016, 1067, 1118, 1168, 1219

152*, 203, 254, 305, 356, 406, 457, 508, 559, 610, 660, 711, 762, 813, 864, 914, 965, 1016, 1067, 1118, 1168, 1219

XX, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14

003 = Slots at 3h 039 = Slots at 3h and at 9h
 006 = Slots at 6h 069 = Slots at 6h and at 9h
 009 = Slots at 9h 369 = Slots at 3h, at 6h and at 9h
 036 = Slots at 3h and at 6h XXX = Passive

XXX = Passive DFH = Diffuse height BC / DE
 DFS = Diffuse standard 21/ 65 DFA = Diffuse AB / DE
 DFR = Diffuse window DE / 21 DVB = Divergent 21
 DFL = Diffuse window BC / 65 DVD = Divergent 65
 DFF = Diffuse height AB / EF DVV = Vertical divergent CD
 DFT = Diffuse CD / EF - slots at 3h DRB = Divergent with nozzle rollers
 DFN = Diffuses CD / AB - slots at 9h

W = White eccentric roller or nozzle roller (RAL 9003)
 C = Cream eccentric roller (RAL 9010)
 B = Black eccentric roller or nozzle roller
 X = Without roller

9003 = White
 9010 = Cream
 00SB = Solar black (Standard matte black)
 00SM = Silver mat (Standard metallic grey)
 _____ = RAL color* (write the color number of RAL)

A = With closed-cell acoustic insulation
 X = Without insulation

D = With damper
 X = Without damper

R = With register (perforated plate)
 X = Without register

Product

Length L_R

Length of the slots (L_s)

Width (Horizontal measures)

Height (Vertical measures)

Number of slots

Slots positions

Air flow

Roller color

Diffuser color

Acoustic insulation

Damper

Register

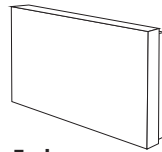
SRA - 1450 - 1300 - 203 X 251 - XX - 006 - DFS - W - 9003 - X - X Annotation : Example

* Ducts with dimensions 152 X 152 are not available

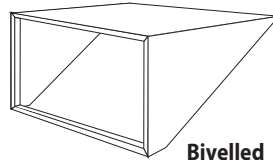
Accessories

All of the standard accessories (elbows, sleeves, reducers, multi-branch connectors, etc.) are available in the precise dimensions of the ducts.

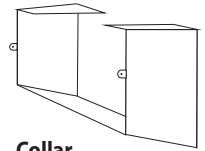
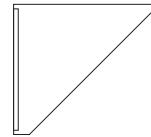
For air balancing reasons, reducers or balancing damper are required between multiple sections.



End cap

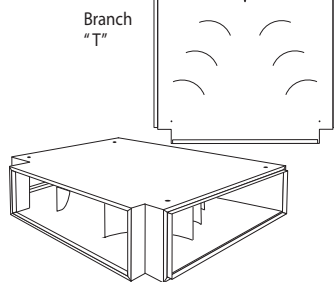


Bivelled end cap

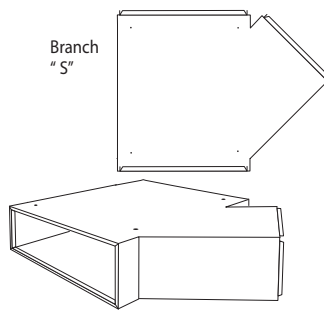


Collar

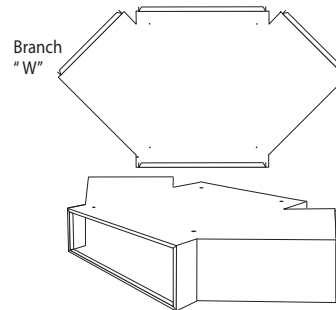
Branches



Branch "T"

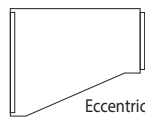
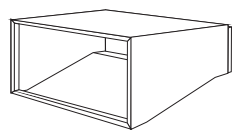


Branch "S"

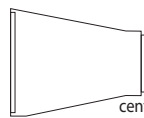


Branch "W"

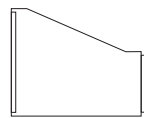
Reducer



Eccentric - top

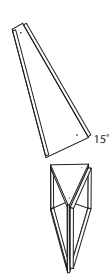


centric

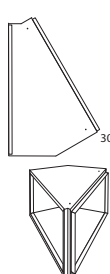


Eccentric - bottom

Elbows



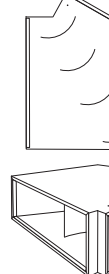
15°



30°



45°

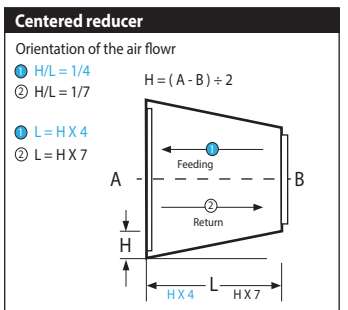
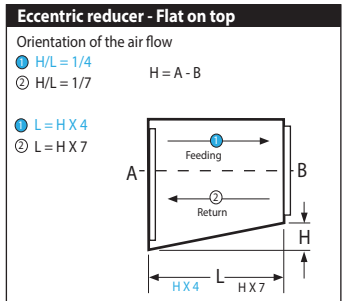


60°



90°

Detailed manufacturing of a transformation

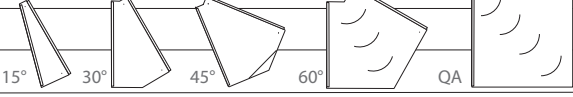


Note: The standard length of reducers is completed to the next whole foot
ex.: $L = 1.3 \text{ ft.}$ will be: $L = 2 \text{ ft.}$

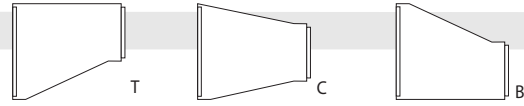
Codification for end caps, collars, bivelled end caps

SRA	CAP = End cap		WCO BEC BES BEG	Product				
	WCO = Collar							
	BEC = Bivelled end cap, BES = with slots (return), BEG = with grid (return)							
	152, 203, 254, 305, 356, 406, 457, 508, 559, 610, 660, 711, 762, 813, 864, 914, 965, 10136, 1067, 1118, 1168, 1219				Width (Horizontal measures)			
152, 203, 254, 305, 356, 406, 457, 508, 559, 610, 660, 711, 762, 813, 864, 914, 965, 10136, 1067, 1118, 1168, 1219	Height (Vertical measures)							
	9003 = White 9010 = Cream 00SB = Solar black (Standard matte black) 00SM = Silver mat (Standard metallic grey) ___ = RAL color* (write the color number of RAL)			Diffuser color				
	A = With closed-cell acoustic insulation X = Without insulation			Acoustic insulation				
SRA	CAP	203	X	251	9003	X	Annotation :	Example

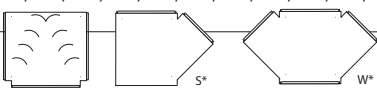
Elbows codification

SRA	ELB = Elbow			Product			
	15, 30, 45, 60, QA			Angle			
	152, 203, 254, 305, 356, 406, 457, 508, 559, 610, 660, 711, 762, 813, 864, 914, 965, 1016, 1067, 1118, 1168, 1219		-----		Width (Horizontal measures)		
	152, 203, 254, 305, 356, 406, 457, 508, 559, 610, 660, 711, 762, 813, 864, 914, 965, 1016, 1067, 1118, 1168, 1219		-----		Height (Vertical measures)		
9003 = White 9010 = Cream 00SB = Solar black (Standard matte black) 00SM = Silver mat (Standard metallic grey) _____ = RAL color* (write the color number of RAL)				Color			
A = With closed-cell acoustic insulation X = Without insulation				Acoustic insulation			
SRA	ELB	15	203 X 203	9003	X	Annotation :	Example

Reducers codification

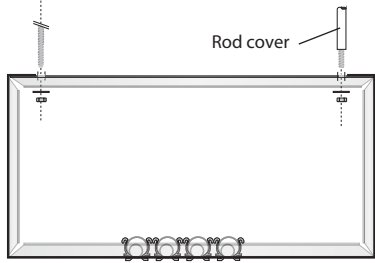
RRA	RED = Reducer			Product					
	T = Eccentric - top (standard) C = Center B = Eccentric - bottom			Configuration					
	152, 203, 254, 305, 356, 406, 457, 508, 559, 610, 660, 711, 762, 813, 864, 914, 965, 1016, 1067, 1118, 1168, 1219		-----		Inlet width				
	152, 203, 254, 305, 356, 406, 457, 508, 559, 610, 660, 711, 762, 813, 864, 914, 965, 1016, 1067, 1118, 1168, 1219		-----		Inlet Height				
152, 203, 254, 305, 356, 406, 457, 508, 559, 610, 660, 711, 762, 813, 864, 914, 965, 1016, 1067, 1118, 1168, 1219		-----		Outlet width					
152, 203, 254, 305, 356, 406, 457, 508, 559, 610, 660, 711, 762, 813, 864, 914, 965, 1016, 1067, 1118, 1168, 1219		-----		Outlet Height					
S = Standard $\alpha = 14^\circ$ A = Other (specify in annotation)				Length					
9003 = White 9010 = Cream 00SB = Solar black (Standard matte black) 00SM = Silver mat (Standard metallic grey) _____ = RAL color* (write the color number of RAL)				Color					
A = With closed-cell acoustic insulation X = Without insulation				Acoustic insulation					
RRA	RED	T	203 X 203	203 X 203	S	9003	X	Annotation	Example

Branch codification

SRA	BRA = branch			Product				
	152, 203, 254, 305, 356, 406, 457, 508, 559, 610, 660, 711, 762, 813, 864, 914, 965, 1016, 1067, 1118, 1168, 1219		-----		Inlet Width			
	152, 203, 254, 305, 356, 406, 457, 508, 559, 610, 660, 711, 762, 813, 864, 914, 965, 1016, 1067, 1118, 1168, 1219		-----		Inlet Height			
	152, 203, 254, 305, 356, 406, 457, 508, 559, 610, 660, 711, 762, 813, 864, 914, 965, 1016, 1067, 1118, 1168, 1219		-----		Outlet Width			
152, 203, 254, 305, 356, 406, 457, 508, 559, 610, 660, 711, 762, 813, 864, 914, 965, 1016, 1067, 1118, 1168, 1219		-----		Outlet Height				
T, S, W,				Configuration				
9003 = White 9010 = Cream 00SB = Solar black (Standard matte black) 00SM = Silver mat (Standard metallic grey) _____ = RAL color* (write the color number of RAL)				Color				
A = With closed-cell acoustic insulation X = Without insulation				Acoustic insulation				
SRA	BRA	305 X 305	203 X 203	T	9003	X	Annotation	Example

Notes : The « W » branch may have two different outlet diameters. * For « S » and « W » fittings, add an elbow to the degree and diameter chosen to complete the branch.

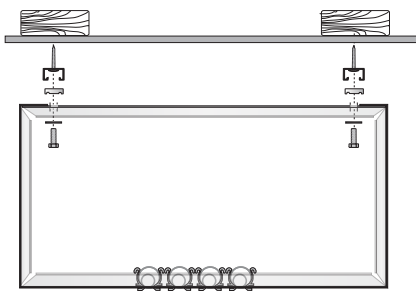
Installation with threaded rods



Installation directly to the ceiling



Installation with rail



Suspension

The suspension of the SRA diffuser is assured by threaded rods (3/8") provided by the installer. Upon request, colored rod covers are supplied to cover the threaded rods. It should be noted, however, that the SRA diffusers can be attached directly to the ceiling.

Other methods of suspension are available, the steel suspension rail which greatly improves installation, or suspension by a high tension metallic cable. These alternative suspension modes can be provided by NAD Klima.

Assembly

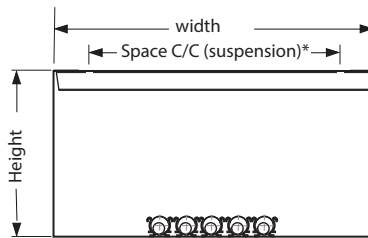
The sections of the SRA diffuser are assembled directly one behind the other, without sleeves.

At the extremity where the air exits the duct a protruding exterior flange acts as a support for the following diffuser which has an interior flange. To unite both diffusers securely together, two screws are provided for this purpose.

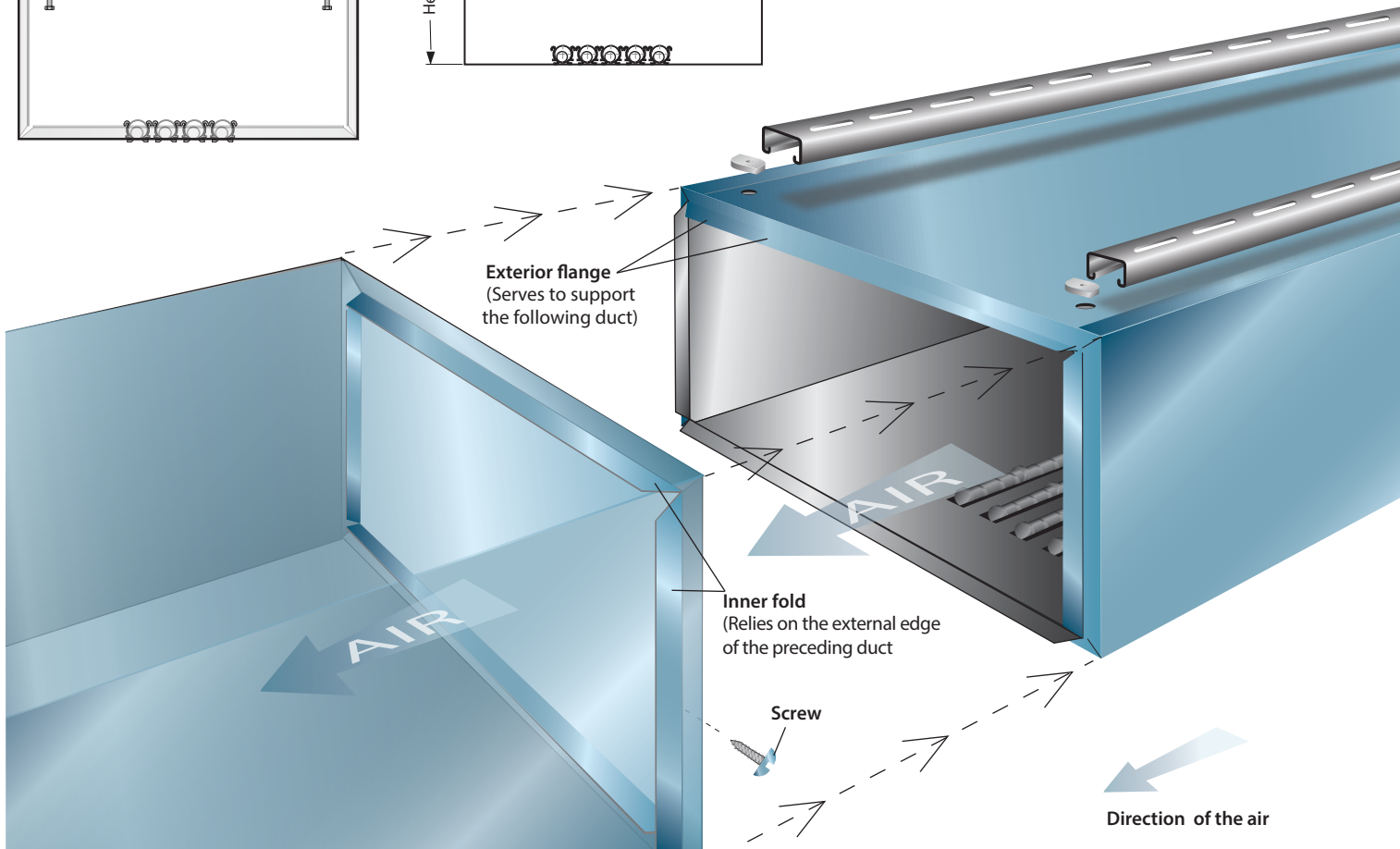
Special attention must be taken regarding the final diffuser which will have interior flanges on both extremities. The final extremity will accept the cap which completes the section.

A sticker will indicate the direction the ducts must be installed.

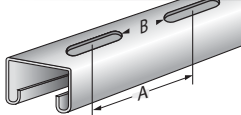
Dimensioning ducts



*The space between the two holes of suspension is the width of the duct minus 3 inches.



Coding for anchorage system, with rail

RAI	S-33 Steel rail 22 X 41 X 3048 mm (7/8" X 1 5/8" X 10 li. ft.) can be paint	A : 2" B : 7/8"	
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9003 = White 9010 = Cream ____ = RAL color (4 number) XXXX = Non paint	Color
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RAI	S33	9003	Example
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Accessories supplied with the steel rail (S33) (2/SRA)

RKS	Fastening system Bolt, washer and nut	
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Coding for suspension accessories with threaded rods (threaded rods are supplied by the installer)

RCT	Threaded rod cover 16 mm X 3.05 m (5/8" X 10 ft)	
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9003 = White 9010 = Cream 00SB = Solar black 00SM = Silver Matte ____ = RAL color* (write the 4 numbers) XXXX = Non paint	Color
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RCT	9003	Example
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
Utility items

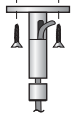
CAN	9003 Paint can (RAL 9003) ____ Paint can (other RAL color) (write the 4 number of the RAL color)
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CAN	9003	Example
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Coding of cable anchor accessories


Description of anchors for the ceiling

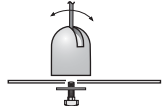
CPA	Anchor with adjustable hook with nickel plating finish Ø 13 mm X X mm (Ø 1/2" X 2 3/4" X 9/16")	
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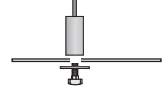
CPP	Flat anchor with pins and throttle adjustment Anodized aluminum only Ø 40 X ø 15 X 70 mm (Ø 1 5/8" X ø 9/16" X 2 3/4")	
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CPS	Anchor with pin and throttle adjustment screws (#4 wood) included Nickel plating finish 13 X 55 mm (1/2" X 2 3/16")	
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Description of anchors for the diffuser

CCA	Adjustable anchor for duct with a nickel plate finis Ø19 X 50 mm (Ø 3/4" X 2")	
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CCP	Swiveling anchor finished with nickel plating Not adjustable Ø19 X 25 mm (Ø 3/4" X 1")	
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CCS	Non ajustable regular anchor with nickel plating Ø19 X 25 mm (Ø 3/4" X 1")	
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XXXX = Without cable 3048 mm - standard (10 ft) ____ Write the lenght in mm	Lenght of the cable
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A = Steel nickel plated (standard)
S = Stainless Steel (optional)

CCS	3048	A	Example
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