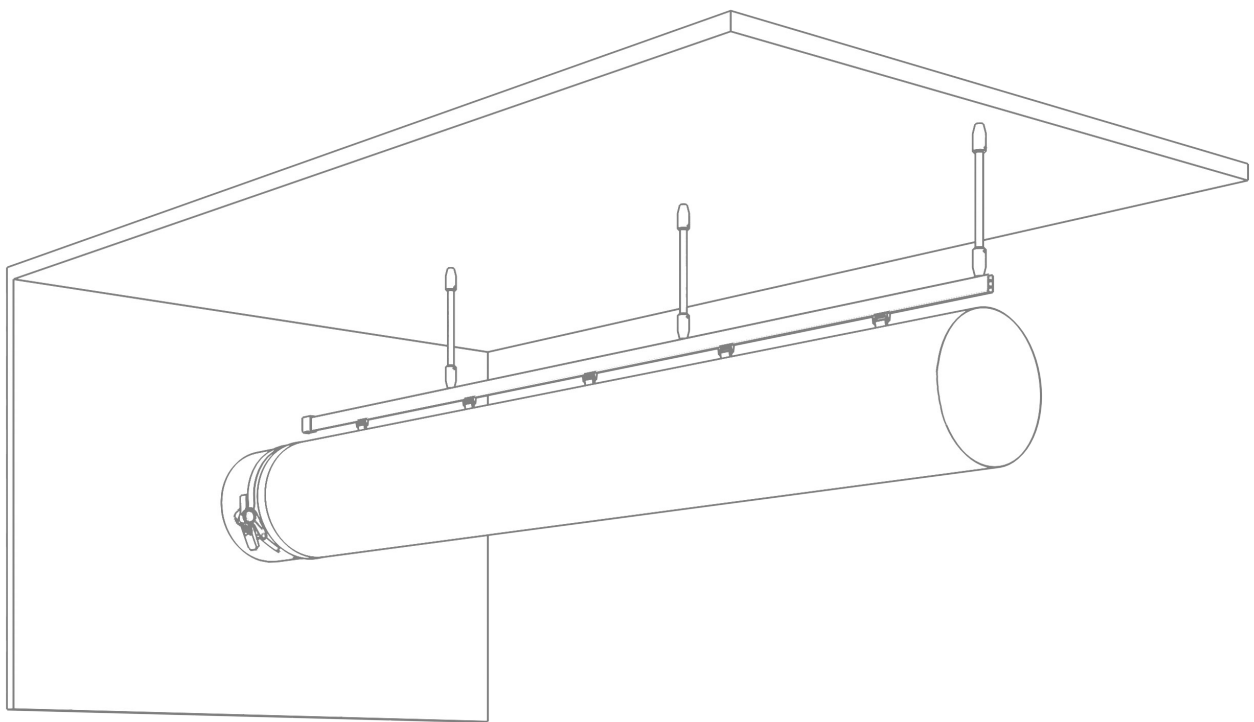


Type 05

Installation Manual



Type 05 suspension is compatible with classic, All-in-One and Internal 360° Hoops ducts.

Type 05 suspension is a rigid single H-Rail suspension with aluminum rod supports connecting the H-Rail to the ceiling structure.



Animation

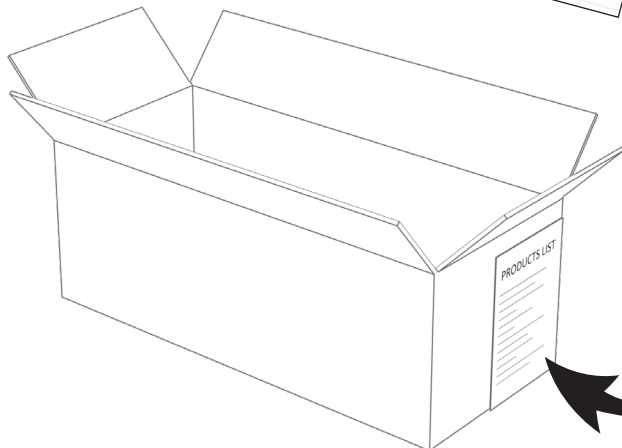
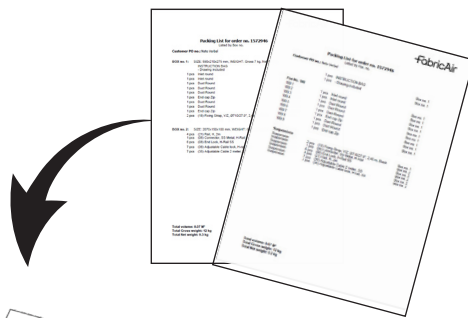
Content

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1.0 OPENING PACKAGE



Video



Box 1 includes all project documentation:

- System Drawing(s)
- Installation Guide
- Packing List (by box)
- Packing List (by positions)

Box number and contents list visible on external box label.

ORDER NO.: 1473677
FabricAir

Contents of box NO. 1/2:
Instruction bag 1 pcs
Drawing included 1 pcs

Distribution Ducts
Tag. no. 100.1 Inlet
Tag. no. 100.2 Inlet

Suspensions
(05) Stretcher
(14) Cable lock
(18) Fixing

FabricAir			
Packing List for order no. 1572946			
Listed by Pos. no.			
Customer PO no.: Nate Verbal			
	1 pcs	INSTRUCTION BAG	Box no. 1
	1 pcs	- Drawing included	Box no. 1
Pos No. 100			
100.1	1 pcs	Inlet round	Box no. 1
100.2	1 pcs	Inlet round	Box no. 1
100.3	1 pcs	Duct Round	Box no. 1
100.4	1 pcs	Duct Round	Box no. 1
100.5	1 pcs	Duct Round	Box no. 1
100.6	1 pcs	End cap Zip	Box no. 1
100.7	1 pcs	Duct Round	Box no. 1
100.8	1 pcs	Duct Round	Box no. 1
100.9	1 pcs	End cap Zip	Box no. 1
Suspensions			
Suspension	2 pcs	(18) Fixing Strap, Y/Z, Ø710/27.9", 2.46 m, Black	Box no. 1
Suspension	1 pcs	(06) Connector, SS Metal, H-Rail	Box no. 2
Suspension	6 pcs	(08) End Lock, H-Rail SS	Box no. 2
Suspension	4 pcs	(21) Rail, H, 2m	Box no. 2
Suspension	7 pcs	(38) Adjustable Cable 2 meter, SS	Box no. 2
Suspension	7 pcs	(36) Adjustable Cable lock, H-rail, SS	Box no. 2
Total volume: 0.07 M³			
Total Gross weight: 12 kg			
Total Net weight: 9.3 kg			

FabricAir			
Packing List for order no. 1572946			
Listed by Box no.			
Customer PO no.: Nate Verbal			
BOX no. 1: SIZE: 590x210x275 mm, WEIGHT: Gross 7 kg. Net 5.9 kg.			
INSTRUCTION BAG			
- Drawing included			
1 pcs	Inlet round	Tag No. 100.1	
1 pcs	Inlet round	Tag No. 100.2	
1 pcs	Duct Round	Tag No. 100.3	
1 pcs	Duct Round	Tag No. 100.4	
1 pcs	Duct Round	Tag No. 100.5	
1 pcs	End cap Zip	Tag No. 100.6	
1 pcs	Duct Round	Tag No. 100.7	
1 pcs	Duct Round	Tag No. 100.8	
1 pcs	End cap Zip	Tag No. 100.9	
2 pcs	(18) Fixing Strap, Y/Z, Ø710/27.9", 2.46 m, Black	Suspension	
BOX no. 2: SIZE: 2070x150x100 mm, WEIGHT: Gross 5 kg. Net 3.45 kg.			
4 pcs	(21) Rail, H, 2m	Suspension	
1 pcs	(06) Connector, SS Metal, H-Rail	Suspension	
6 pcs	(08) End Lock, H-Rail SS	Suspension	
7 pcs	(36) Adjustable Cable lock, H-rail, SS	Suspension	
7 pcs	(38) Adjustable Cable 2 meter, SS	Suspension	
Total volume: 0.07 M³			
Total Gross weight: 12 kg			
Total Net weight: 9.3 kg			

- There are two packing lists – by box and by position. Each box may contain either suspension components or ducting. Each duct section/component has a Tag number (Tag No. XXX.X). Suspension elements have part ID numbers. Example: (21) H-Rail, 2 m. In this case, (21) is part ID.
- Tag numbers are marked in assembly sequence. Assembly of ducting should start with Tag No. XXX.1 and continue accordingly.

1.1 Understanding components table (located on system drawing)

COMPONENTS								
Tag#	Fabric	Color	Flow model			Suspension		
			Primary	Placement	Secondary	Type	Strap length	Material
350404600025	Combi 70	Black 3004			FabFlow		0	GV
100.1	Combi 70	Black 3004			FabFlow		0	GV
100.2	Combi 70	Black 3004	SonicFlow SonicFlow SonicFlow SonicFlow SonicFlow	2:00 3:00 4:00 5:00 6:00	FabFlow	Type 01 AiO	50 mm [2"]	GV

THE CHART SHOWN ABOVE IS AN EXAMPLE

Tag#: the unique number for that section, this is the identifying/unique number for that section.

Tag 3504...##..25: this part is the FabricAir flow straightener that helps manage turbulence and can be zipped into any joint.

Fabric: the fabric selected for this project.

Color: the color selected (standard meaning to select from the standard color chart for that fabric).

Flow model primary: primary dispersion method.

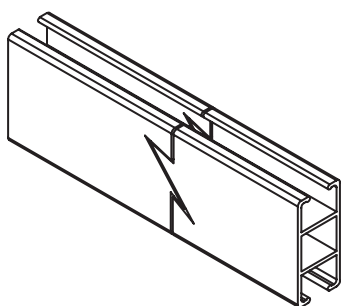
Placement: position of the holes; direction of airflow based on looking in the direction of airflow with the air hitting you from behind.

Flow model secondary: FabFlow for permeable fabrics.

Suspension type: the suspension model selected for the project.

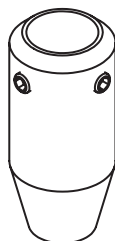
Strap length: the length of the strap from the top of the duct to the suspension.

1.2 Type 05 suspension components (located on packing lists)



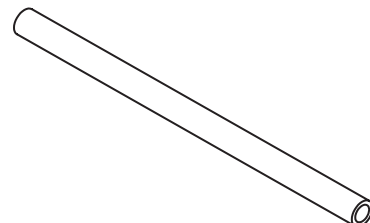
Part ID (21)

H-Rail profile



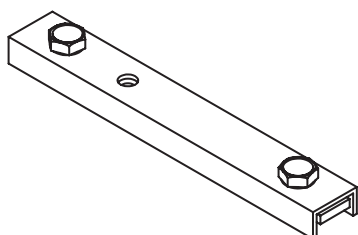
Part ID (27)

Rod end connector



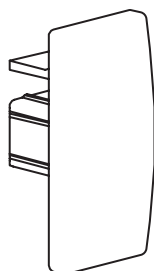
Part ID (9)

Rod



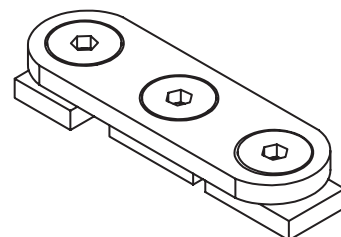
Part ID (6)

H-Rail connector



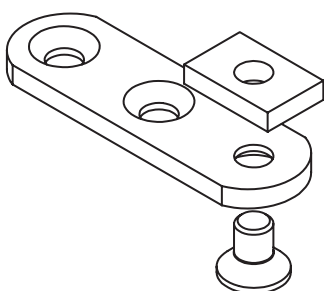
Part ID (8)

H-Rail endcap



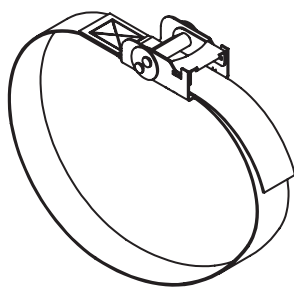
Part ID (23)

H-Rail tee connector



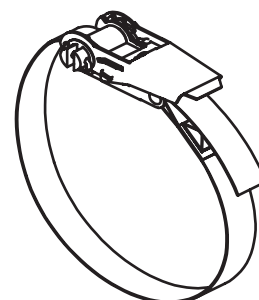
Part ID (25)

H-Rail ceiling
connector



Part ID (17)

Fixing strap for duct
 $\varnothing < 508 \text{ mm [20"]}$



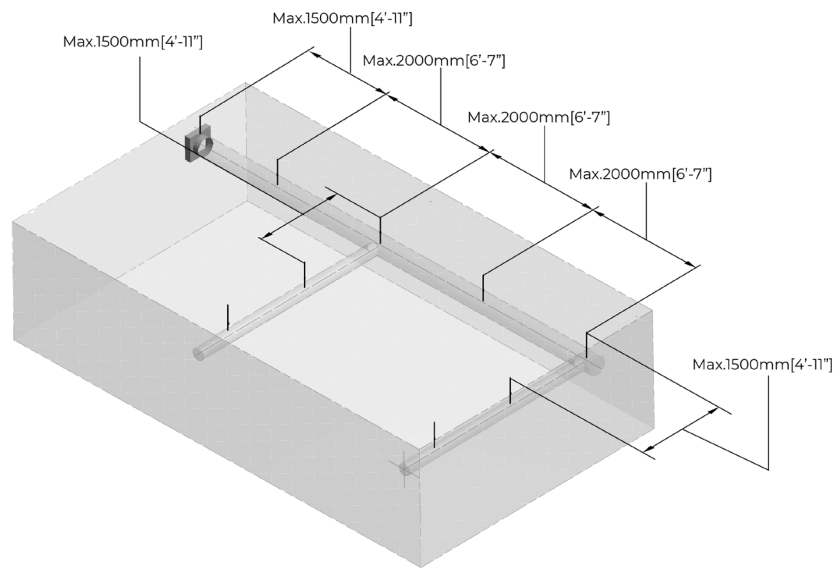
Part ID (18)

Fixing strap for duct
 $\varnothing > 508 \text{ mm [20"]}$

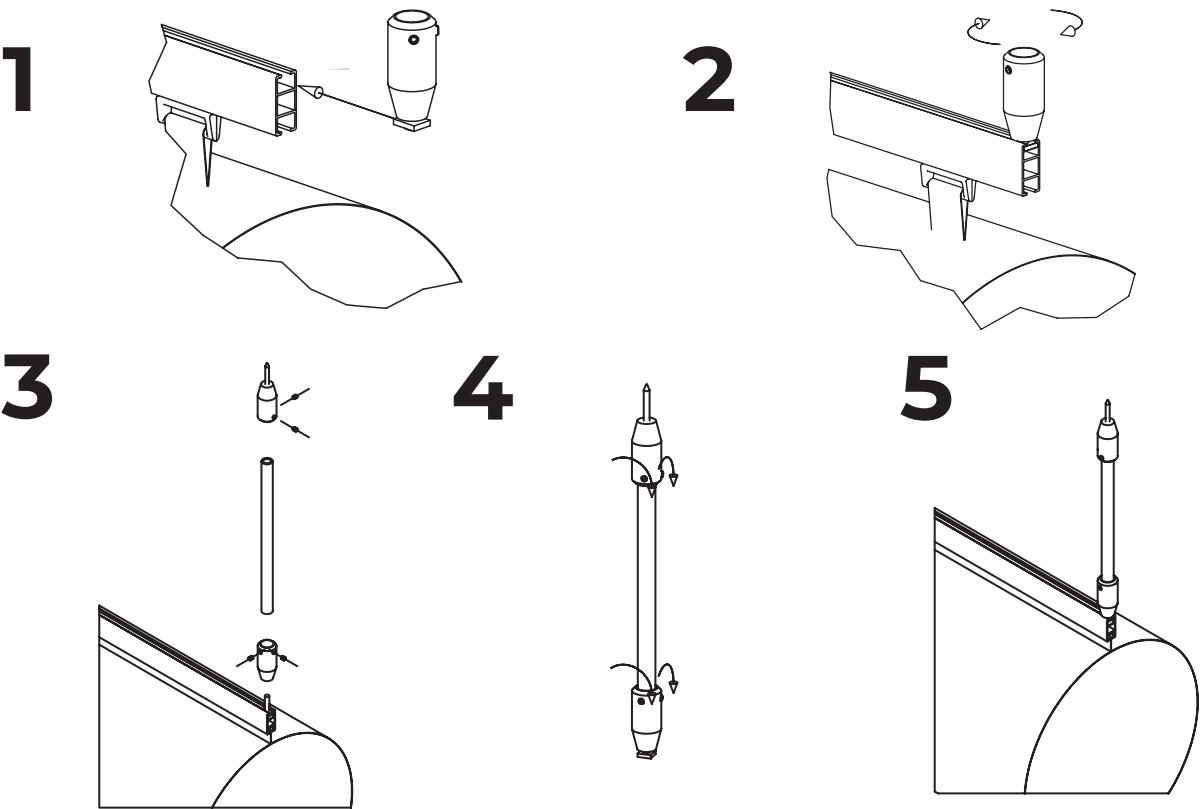
2.0 SUSPENSION INSTALLATION

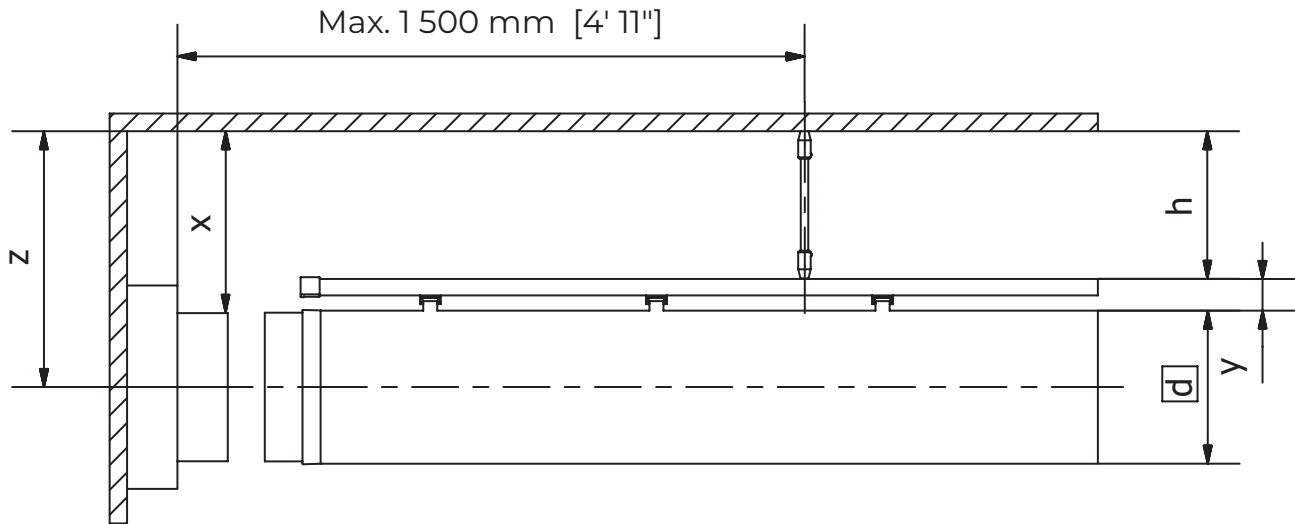


Video



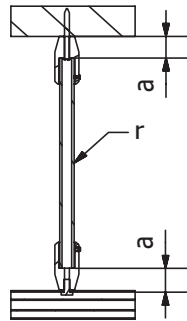
2.1 Mounting H-Rail





Rods are fastened to each connector using set screws (3 mm hex key).

Aluminum rods must be cut to length on-site by the contractor/installer.



$$r = h - 2a$$

$$h = x - y$$

$$x = z - 1/2 d$$

$$a = 22 \text{ mm}$$

$$Y = S + 33 \text{ mm [1.3"]}$$

Standard:

$$Y \text{ classic} = 63 \text{ mm [2.5"]}$$

$$Y \text{ all-in-one} = 83 \text{ mm [3.25"]}$$

Dimensions given in squares (□) can be found in system drawings packed in the shipping box.

Standard strap length for the 3 possible options:

classic: $S = 30 \text{ mm [1.2"]}$ minimum length;

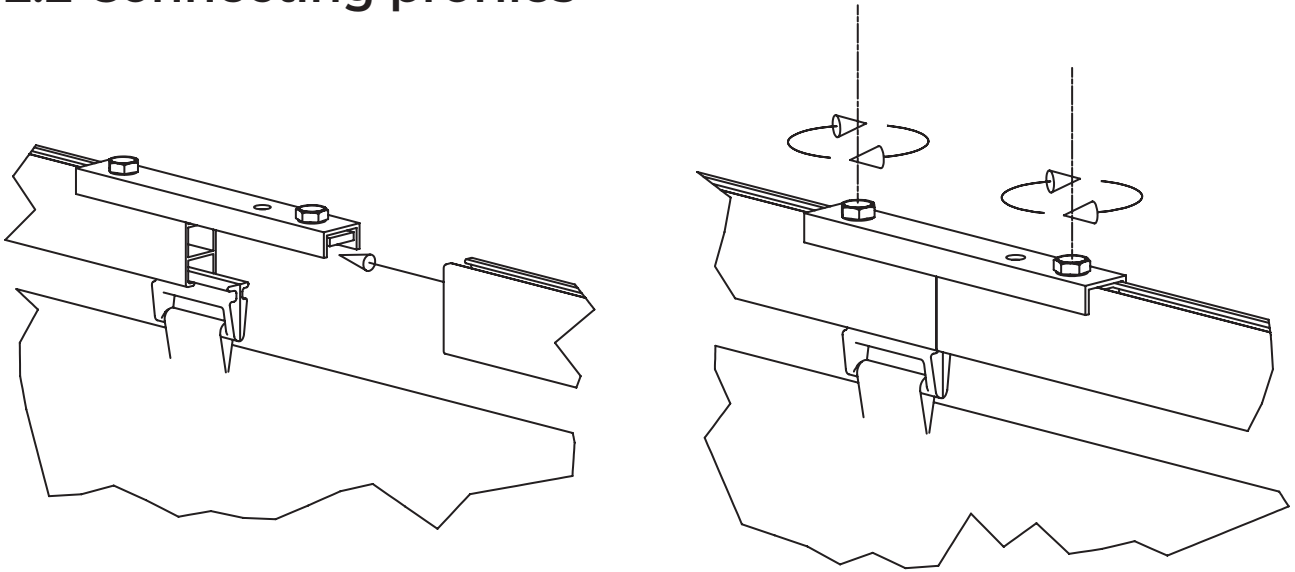
All-in-One / Internal 360° Hoops: $S = 50 \text{ mm [2"]}$ minimum length.

Strap lengths may be extended on Type 05 suspension, as needed to allow ducts to hang more than 50 mm [2"] below rail.

NOTE! Hardware quantities for vertical hangers are calculated based on 2 m [6'-7"] spacing.

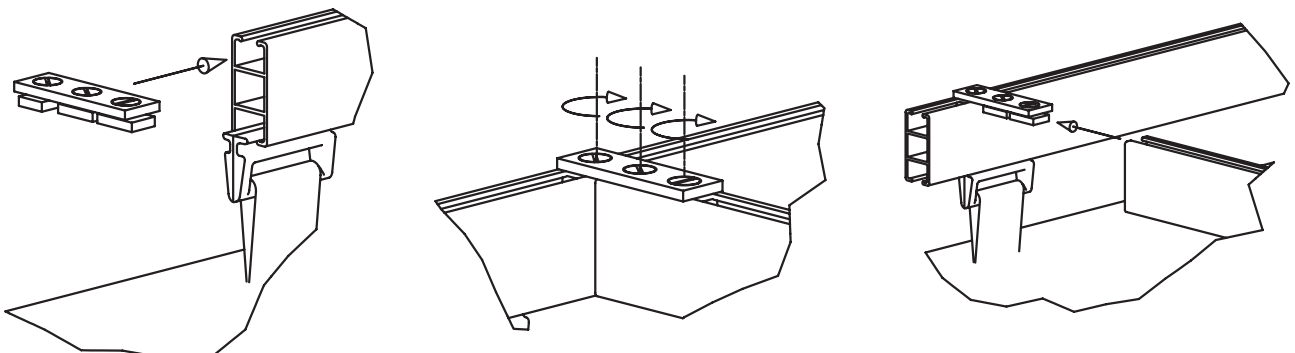
Installer must request additional hardware if vertical anchor spacing is to be less than 2 m [6'-7"].

2.2 Connecting profiles

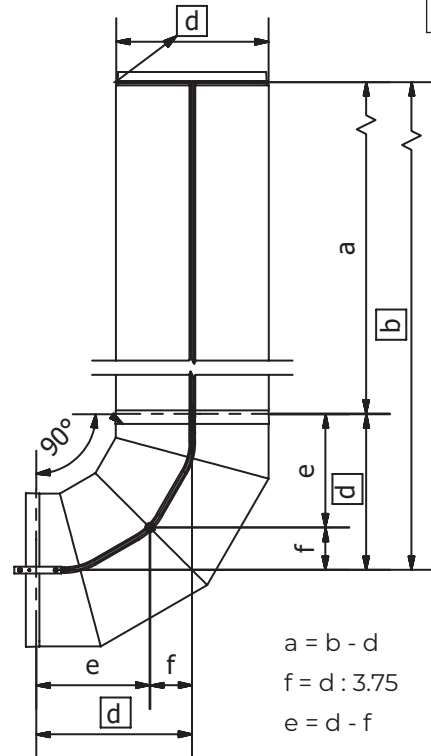
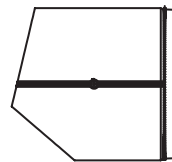


- H-Rail pieces are joined together using a metal connector.
- Duct will have sliders to slide into H-Rail at appropriate locations.
- Systems with elbows are provided with factory-bent H-Rail sections, to match the exact angle necessary for supporting the elbow.

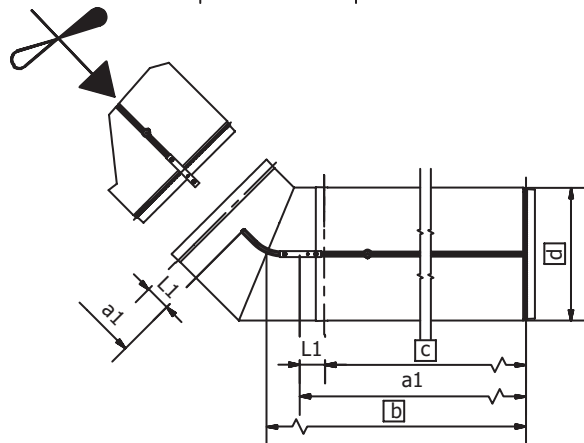
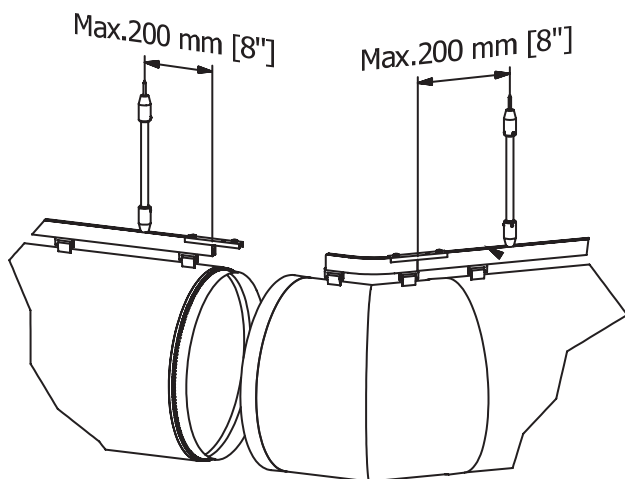
2.3 Connecting additional profiles



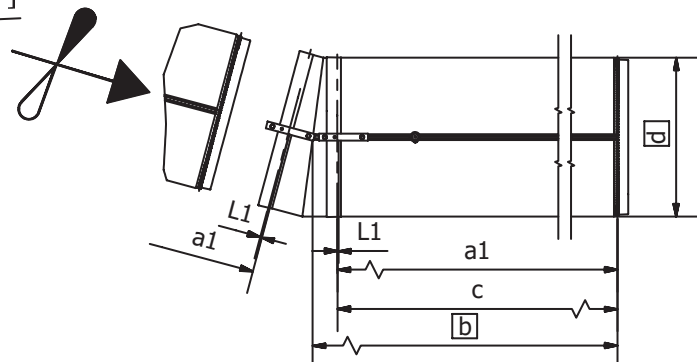
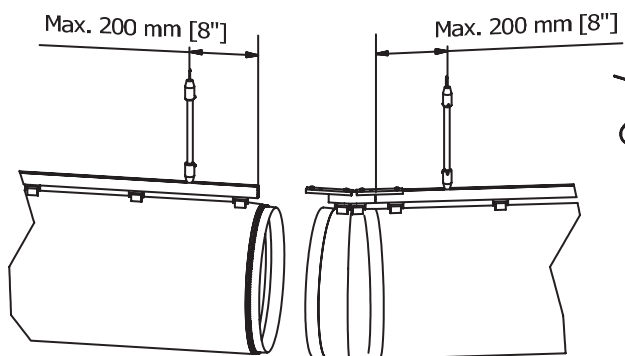
Technical drawing of a curved metal structure, likely a part of a machine or a component. The drawing shows a cross-section of the structure, which is curved and has a central vertical rod. The structure is supported by a base. The drawing includes dimensions: "Max. 200 mm [8\"]" for the height of the vertical rod and "Max. 200 mm [8\"]" for the width of the base.



$$\begin{aligned} a &= b - d \\ f &= d : 3.75 \\ e &= d - f \end{aligned}$$



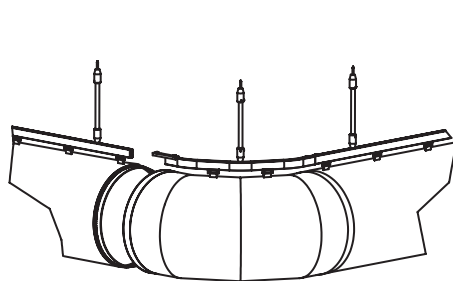
$$\begin{aligned} a_1 &= c + L_1 \\ a_1 &= b - 100 \text{ mm [3.9"]} \\ L_1 &\rightarrow 05.41 \end{aligned}$$



9

2.5 Suspension installation details

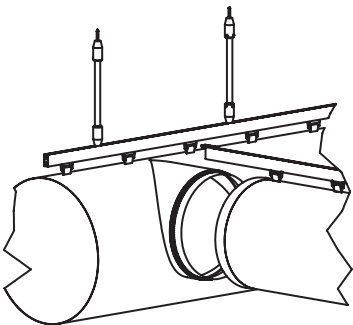
Use QR code for more detailed information for each type.



Bendings and elbows
All degrees and sizes



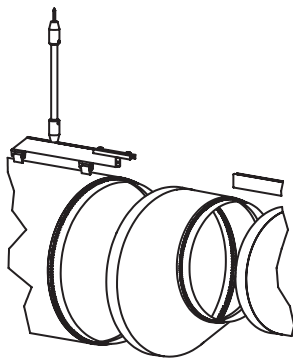
Drawings



Branches
Top/center/bottom aligned



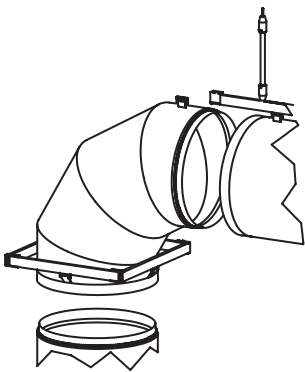
Drawings



Reductions
Top/center/bottom aligned



Drawings



**Vertical duct
suspension methods**



Drawings

3.0 SHAPE RETAINING HARDWARE

Shape retention solution for Type 05 suspension.
Standard All-in-One strap length = 50 mm [2"].
Comes pre-installed from the factory.

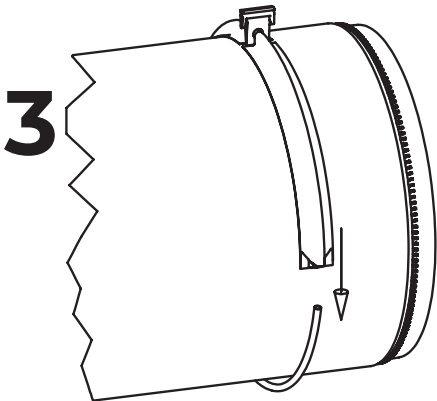
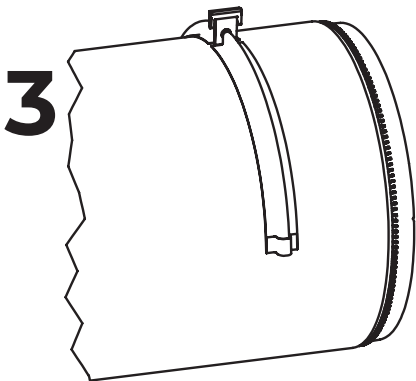
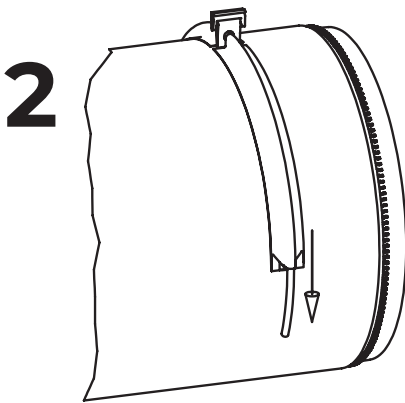
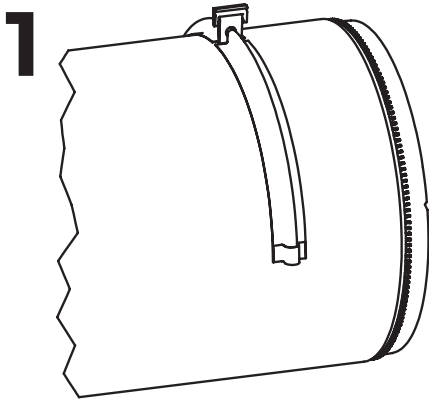
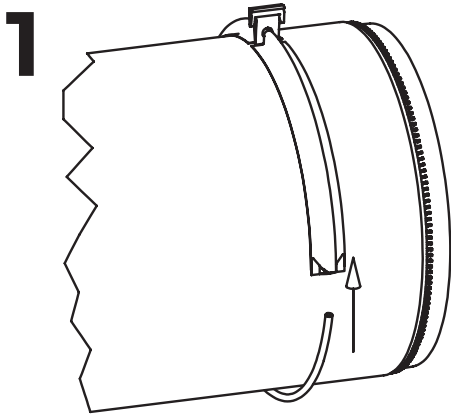
3.1 All-in-One

Assembly

Disassembly



Video



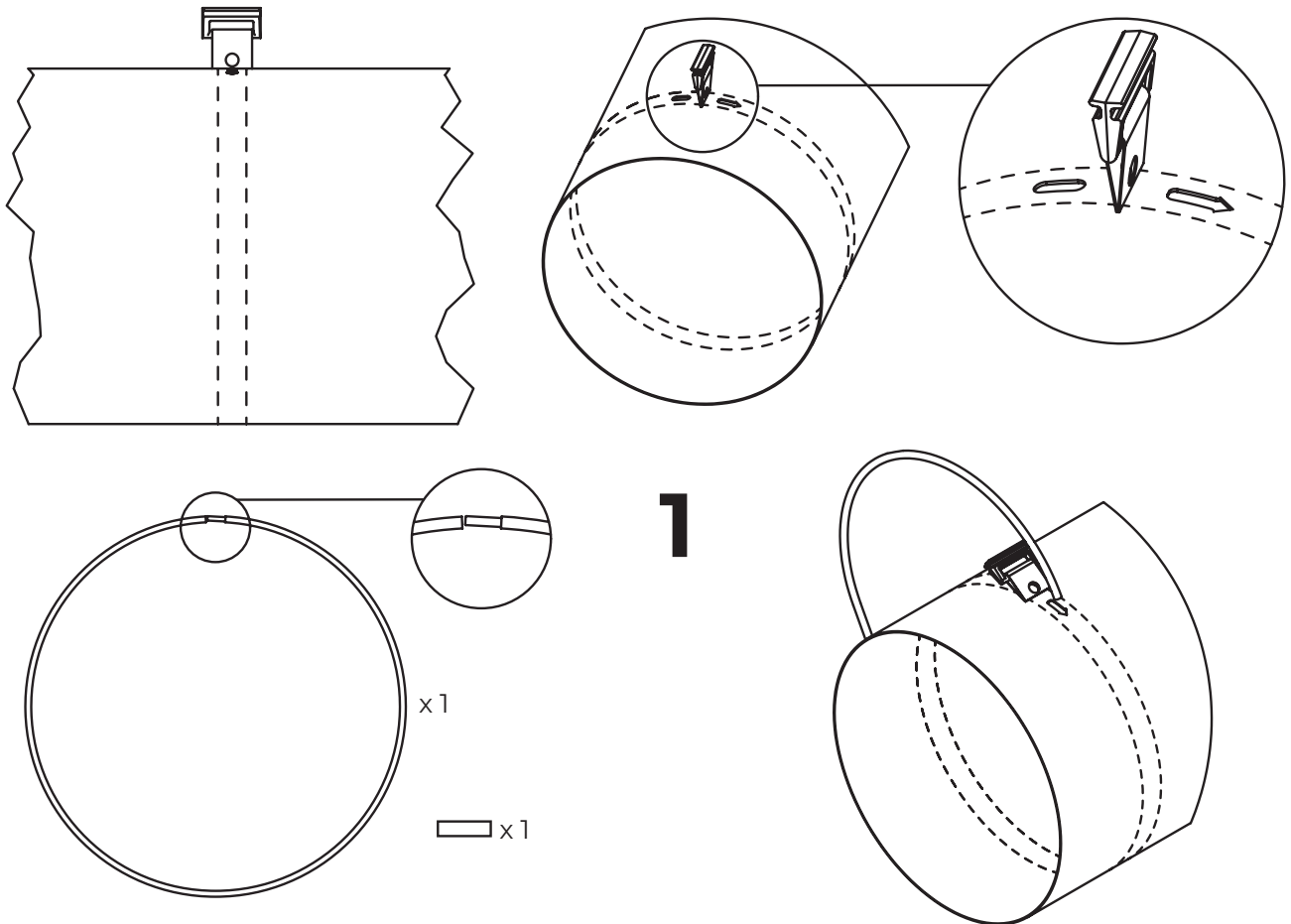
3.2 Internal 360° hoops assembly

Optional shape retention solution for Type 05 suspension.

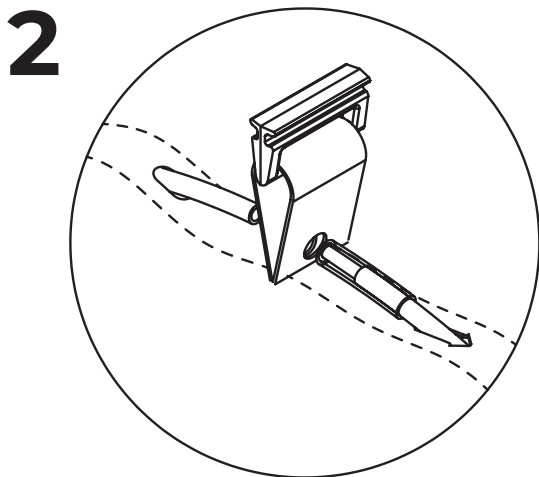
Standard 360° Internal Hoops strap length = 50 mm [2"].

Duct $\varnothing \leq 660$ mm [26"] – comes pre-installed from the factory.

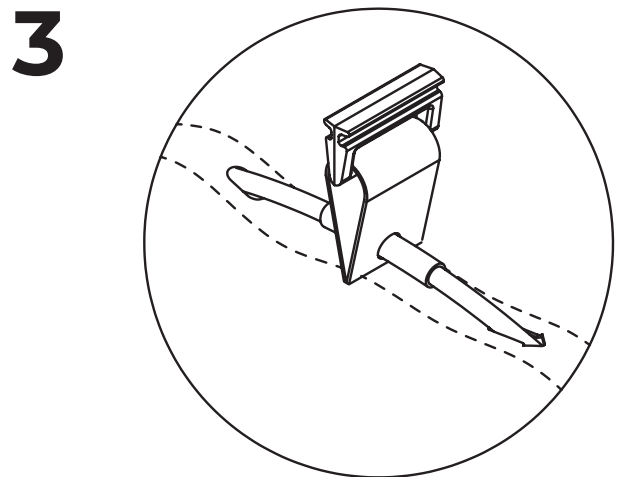
A hoop consists of 1 x 360°-piece, 1 x connector.



Insert the 360°-piece in the direction of arrow at 12 o'clock opening with the flat (female) end first



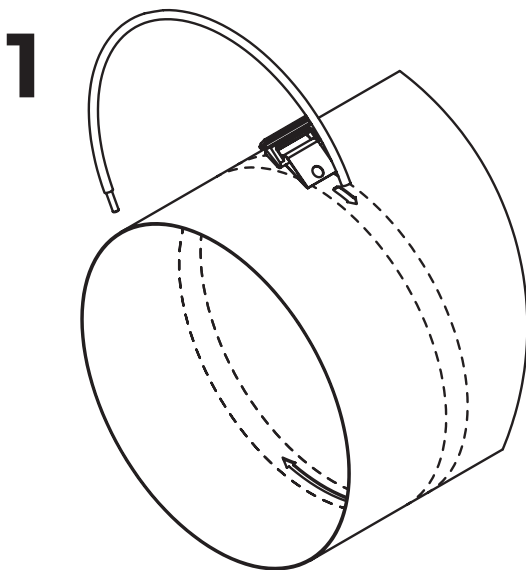
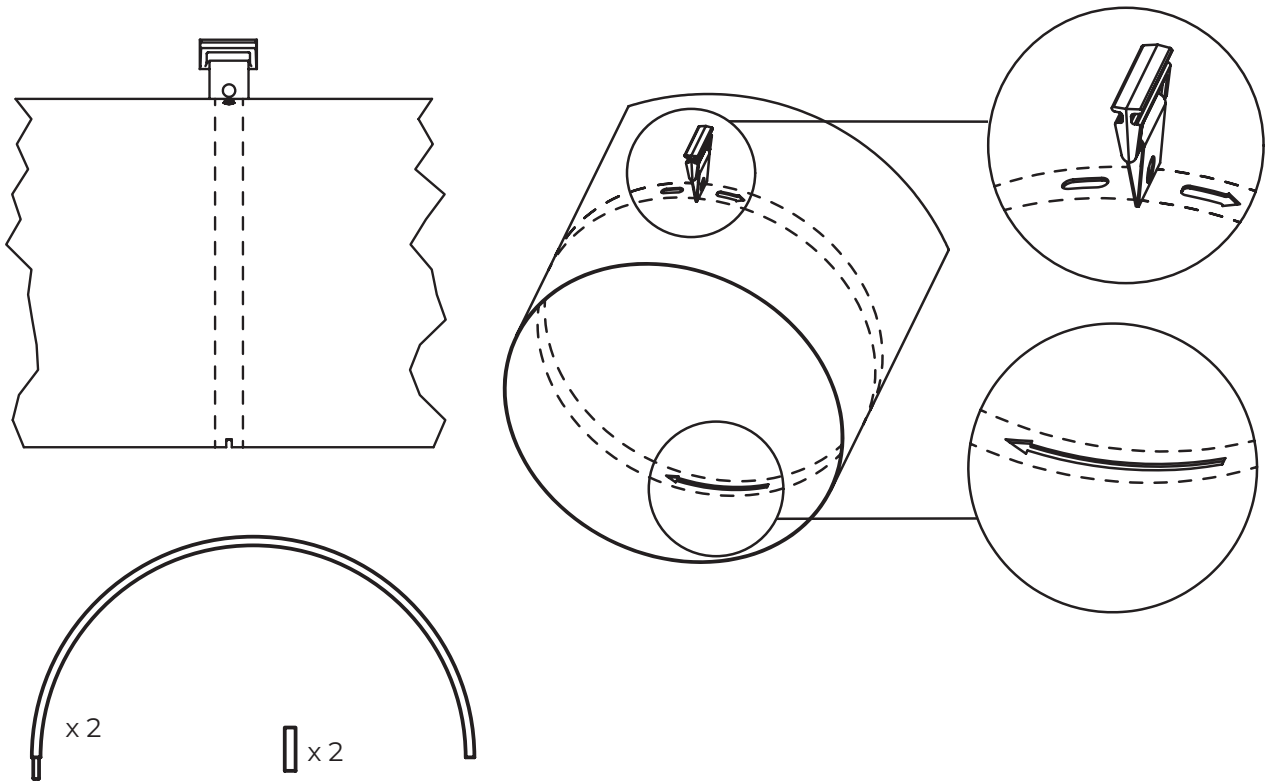
Pull the connector on one end of the hoop



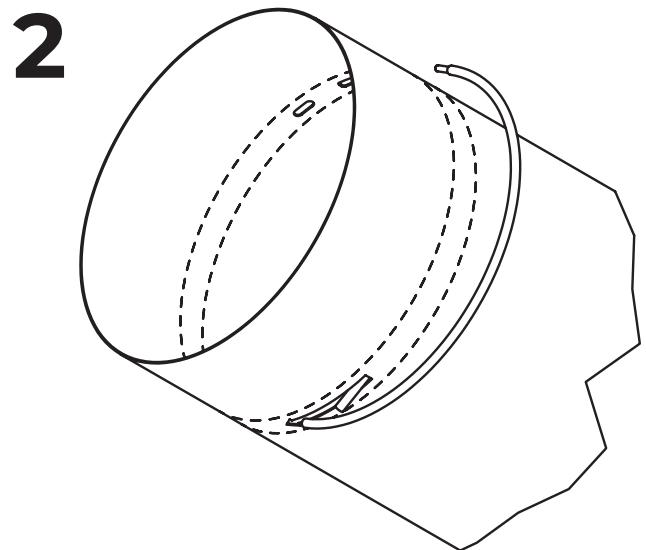
Connect the hoop and centre the connector

660 mm [26"] < Duct Ø ≤ 1220 mm [48"] – to be installed on site.

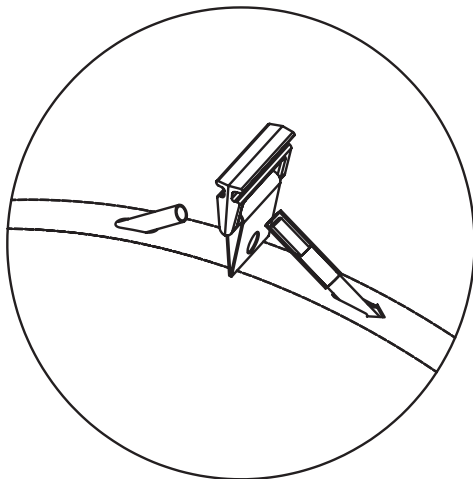
A hoop consists of 2 x 180°-piece, 2 x connector.



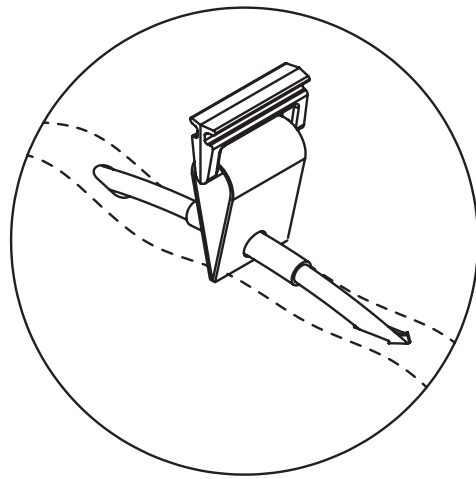
Insert the 180°-piece in the direction of arrow at 12 o'clock opening with the flat (female) end first



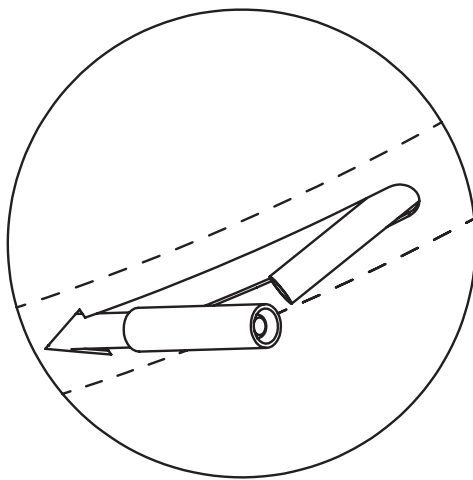
Insert the 180°-piece in the direction of arrow at 6 o'clock opening with the flat (female) end first

3

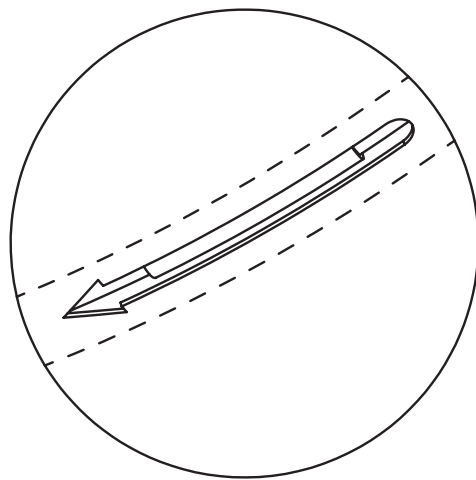
Pull the connector on one 180°-piece at 12 o'clock

4

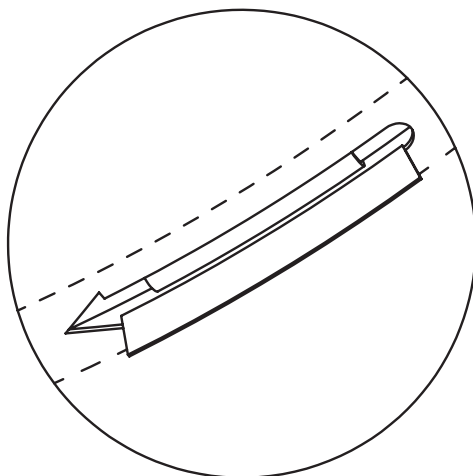
Connect the hoop and centre the connector at 12 o'clock

5

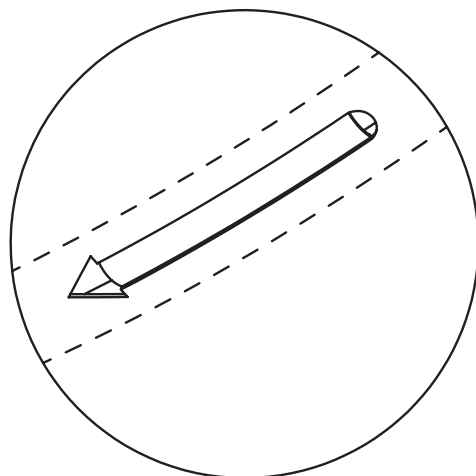
Pull the connector on one 180°-piece at 6 o'clock

6

Connect the hoop and centre the connector at 6 o'clock

7

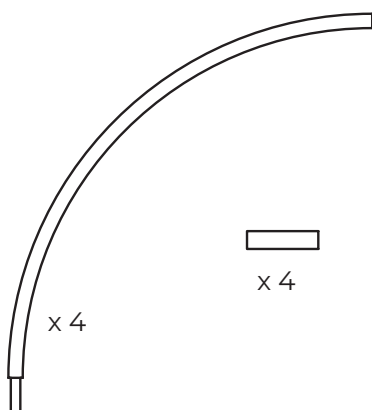
Pull out the fabric cover flap at 6 o'clock opening

8

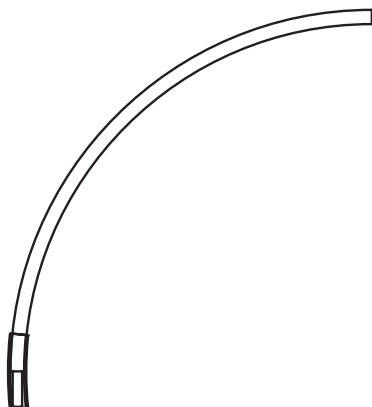
Conceal the hoop with the fabric cover flap

1220 mm [48"] < Duct Ø ≤ 1830 mm [72"] – to be installed on site.

A hoop consists of 4 x 90°-piece, 4 x connector.

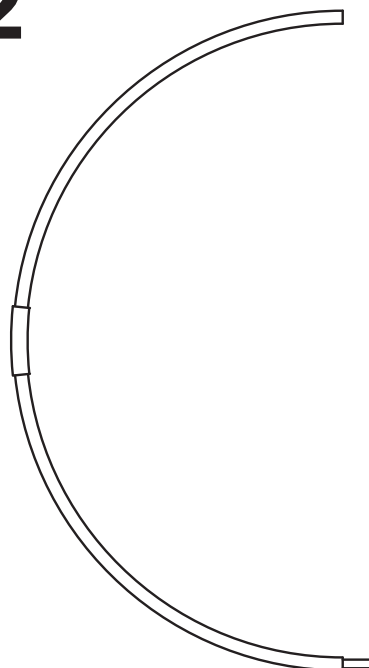


1



Pull the connector on one end of the 90°-piece

2



Connect two 90°-pieces to form a 180°-piece

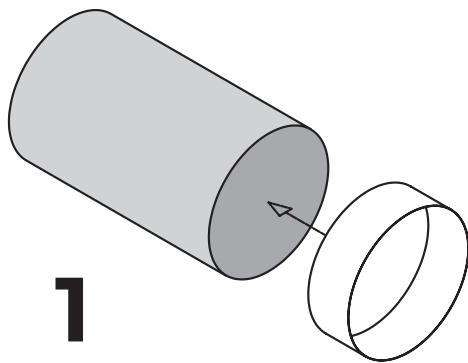
Repeat steps 1-8 from section 660 mm [26"] < Duct Ø ≤ 1220 mm [48"].

4.0 INSTALLING THE FABRIC

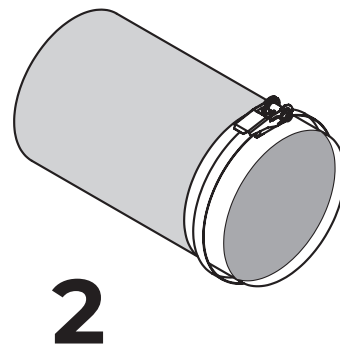
4.1 Connection to sheet metal part with fixing strap

	Basic inlet	Cover inlet	Smart inlet
Min. metal duct length required	50 mm [2"]	50 mm [2"]	75 mm [3"]
Inlet length	Min. 50 mm [2"] Std. 100 mm [4"]	Min. and std. 100 mm [4"]	Min. and std. 100 mm [4"]

Basic inlet

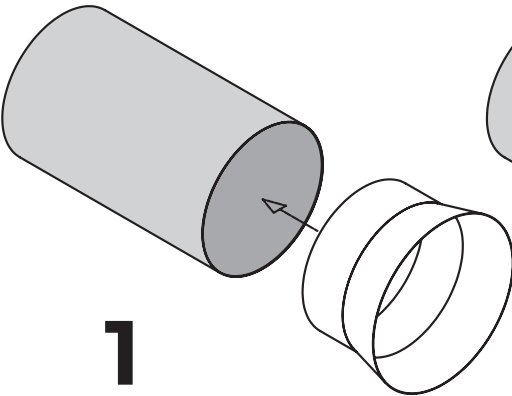


Put inlet on the duct

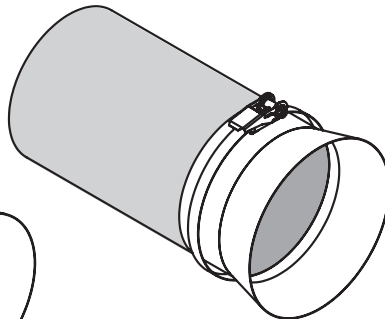


Put and tighten the fixing strap

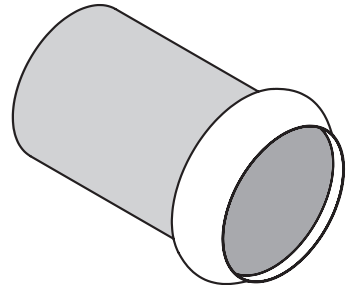
Cover inlet



Put inlet on the duct

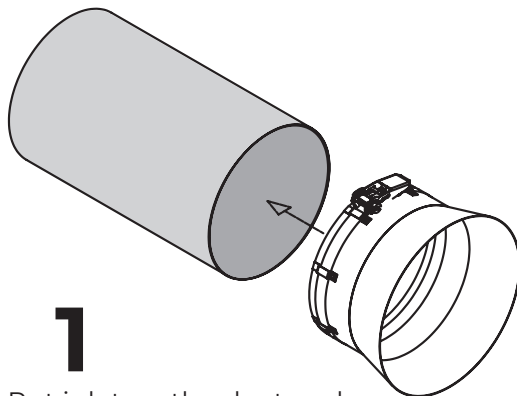


Put and tighten the fixing strap

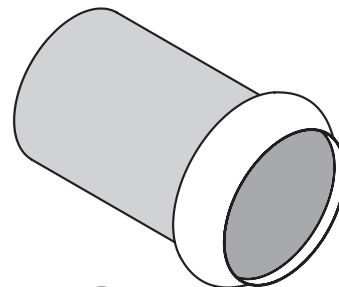


Close the cover

Smart inlet



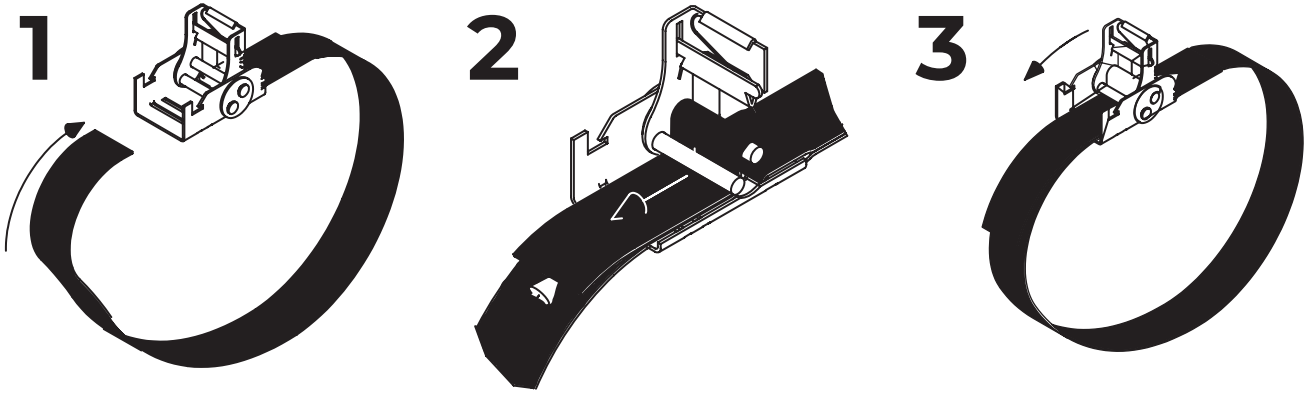
Put inlet on the duct and
tighten the fixing strap



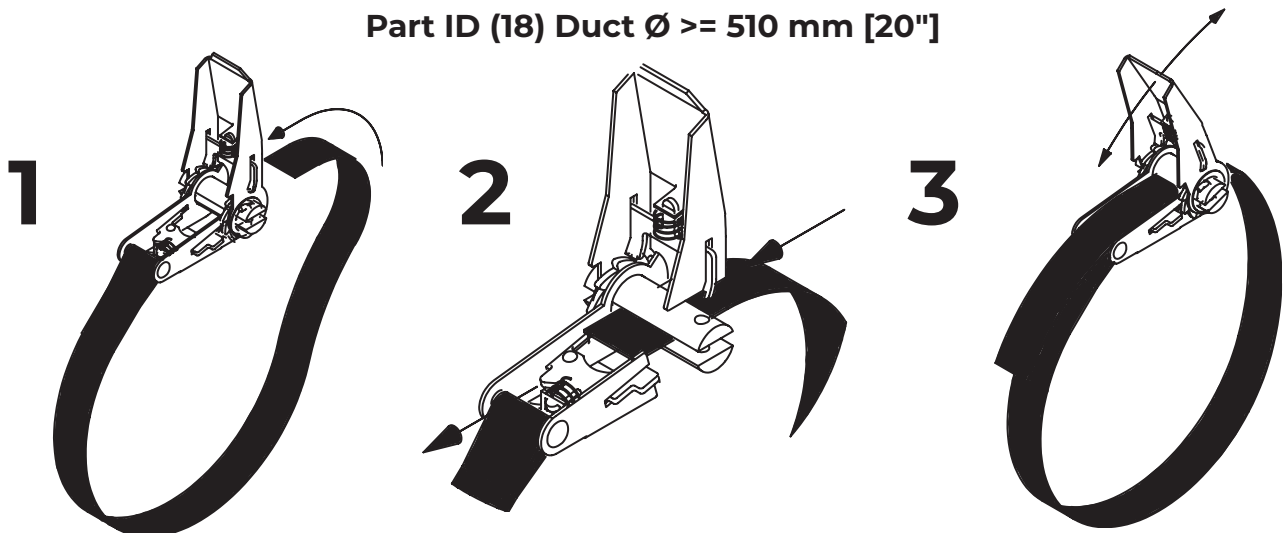
Close the cover

4.2 Fixing straps

Part ID (17) Duct $\varnothing < 510$ mm [20"]



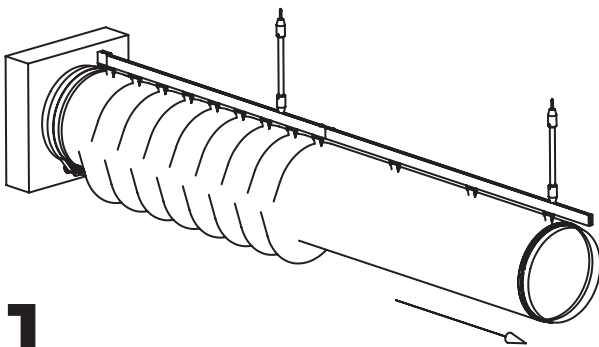
Part ID (18) Duct $\varnothing \geq 510$ mm [20"]



4.3 Installation of duct on H-Rail

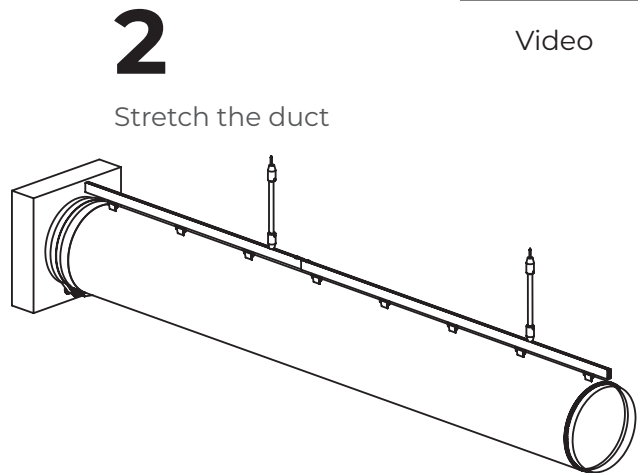


Video



1

Hang ducting first

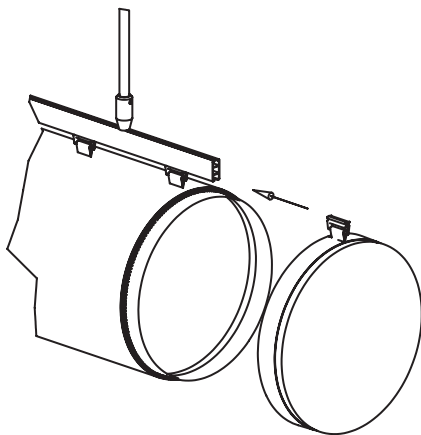


2

Stretch the duct

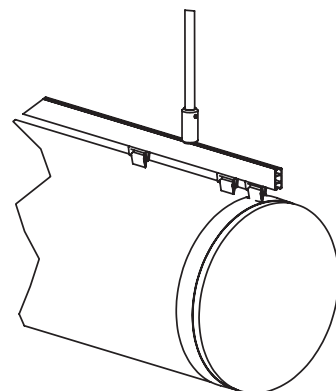
3

Insert endcap in the rail



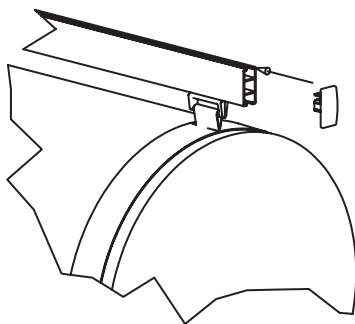
4

Slide endcap to the end of the duct. Zip it



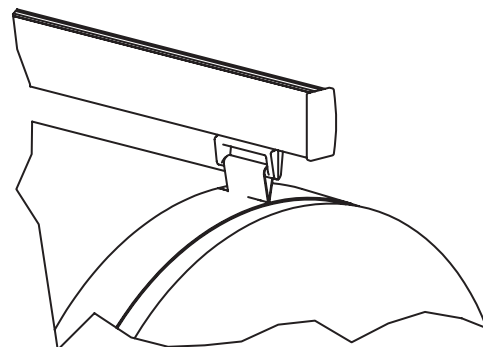
5

Secure duct by inserting H-Rail endcap



6

Finished installation



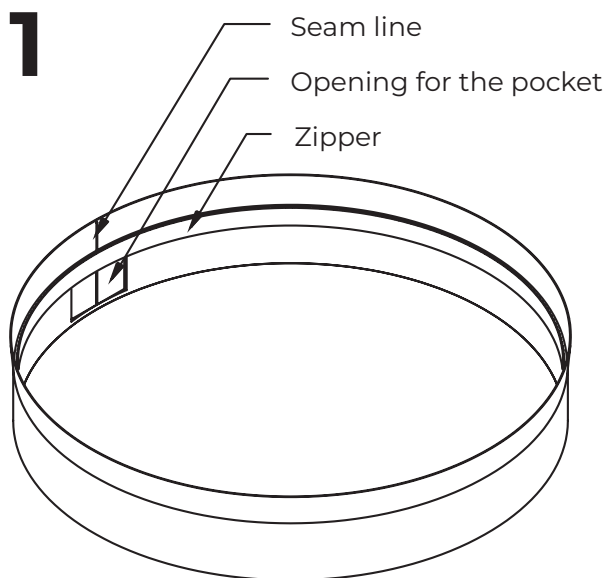
H-Rail endcap creates a strong and tight interference fit connection.

Securing with a self-drilling screw (not part of FabricAir delivery) via $\varnothing 2,2$ mm hole of the H-Rail endcap at the top is optional.

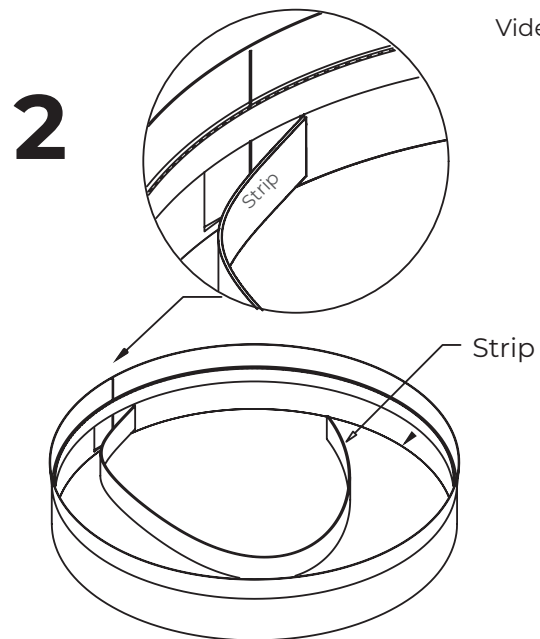
4.4 Taut Endcap installation



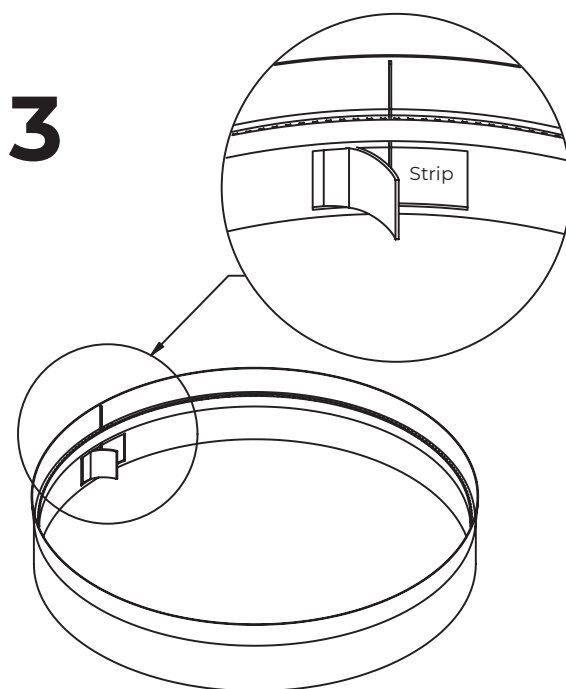
Video



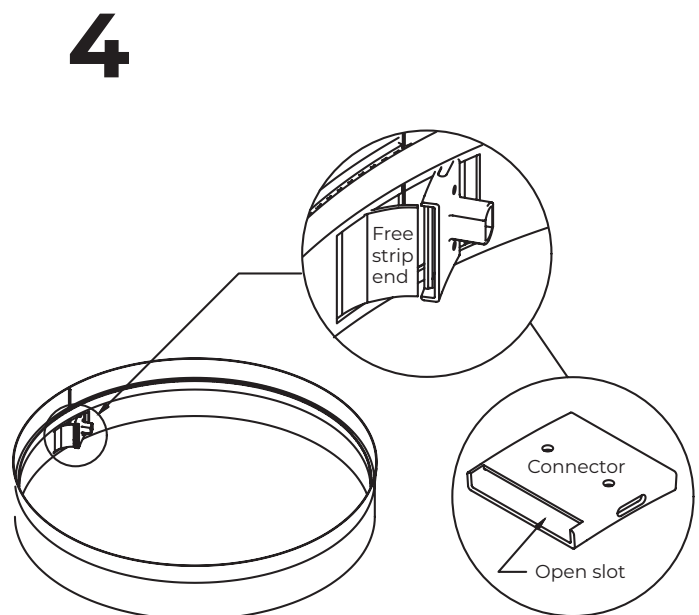
Lay the end cap flat on a clean surface



Insert the strip in the pocket all around the endcap

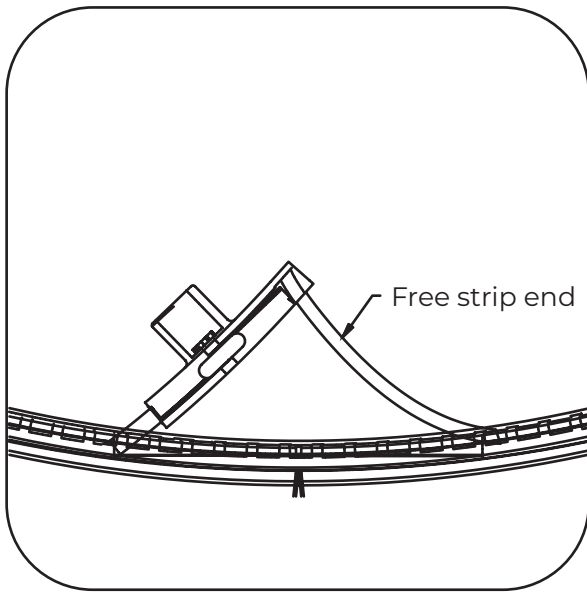


Align one end of the strip with the seam line

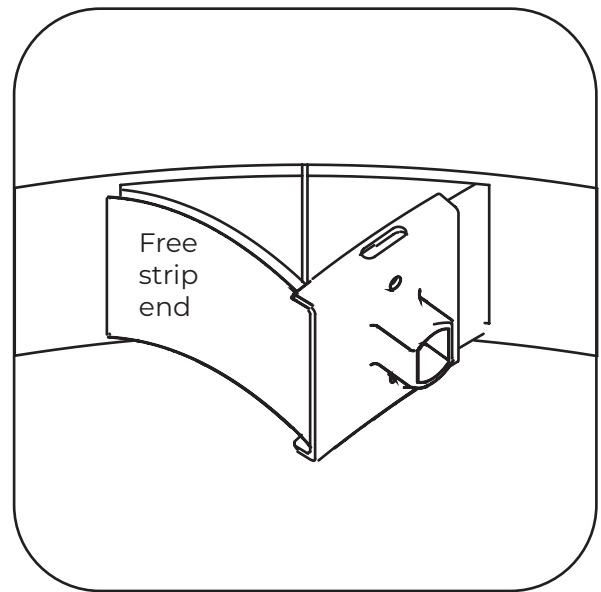


Put connector on the aligned strip end with the open slot towards the free strip end

5

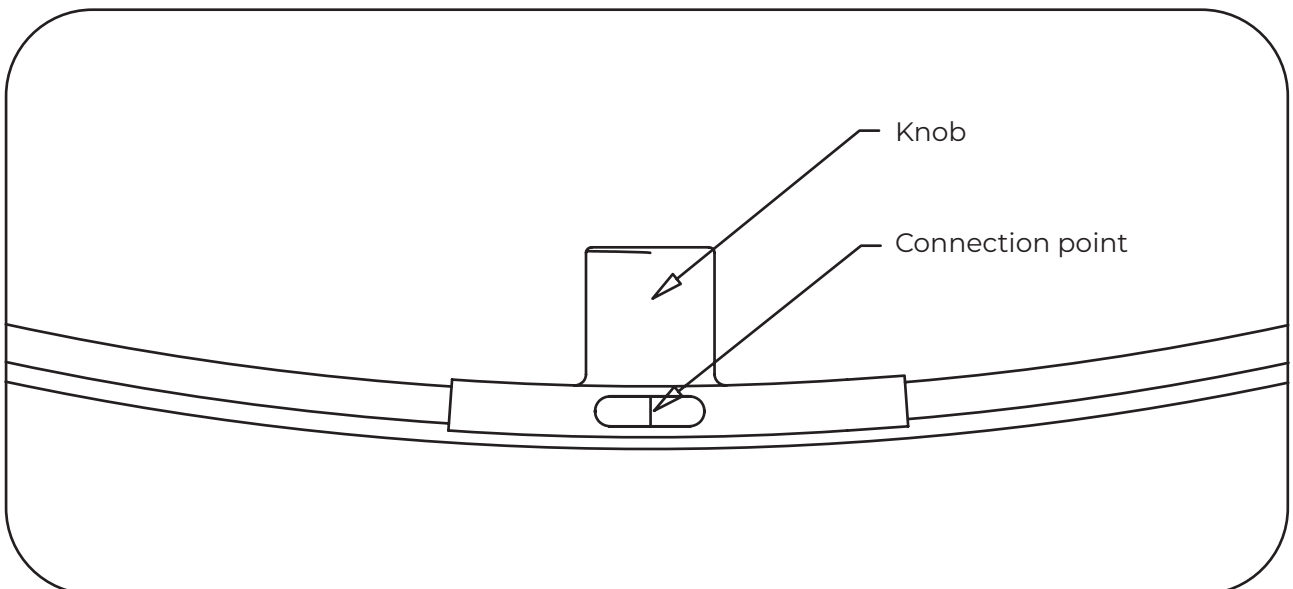


Place the free strip end in the open slot



Hold the connector and the free strip end together and push until both strip ends are aligned

6



Using the knob, slide the connector and make sure the connection point between both strip ends is in the center of the connector