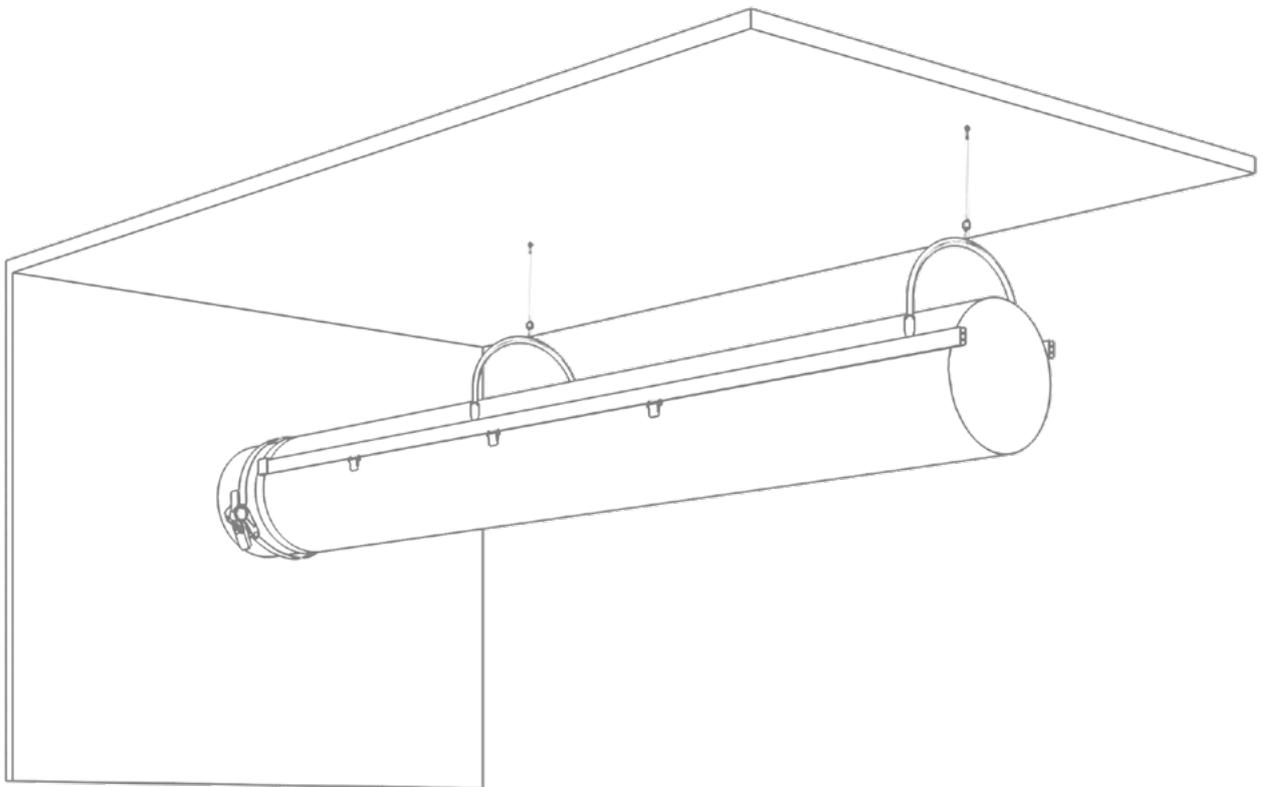


Type 13

Installation Manual

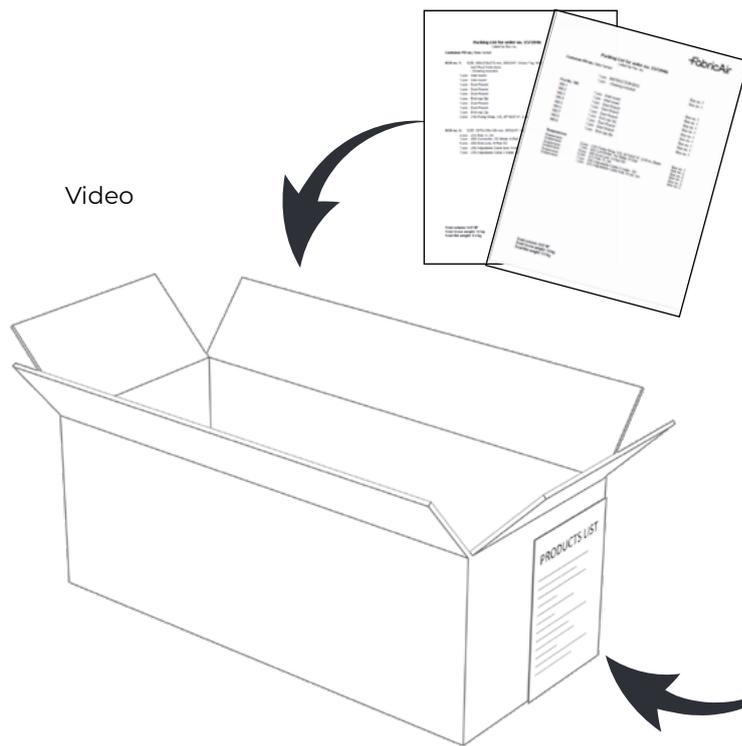


Type 13 is a suspension method for round fabric ducts, which makes use of two H-Rails joined by a factory bent aluminum hoop. Each hoop requires only a single point connection to the structure. This double rail suspension method prevents the duct from twisting that may occur with unbalanced distribution, while maintaining the simplicity of install of a single-point suspension method. Type 13 is not compatible with shape retaining hardware (All-in-One, Internal 360° Hoops).

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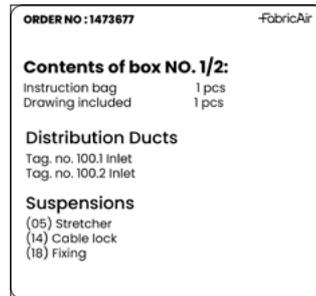
1.0 OPENING PACKAGE



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.



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.

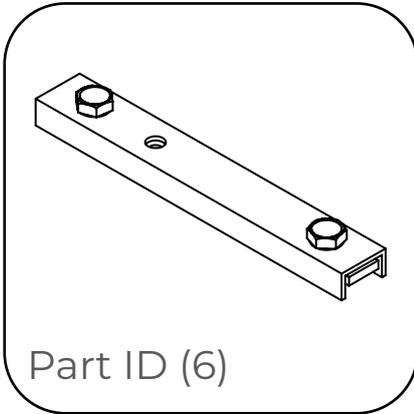
Placement: position of the holes; direction of airflow based on looking in the direction of airflow with the air hitting you from behind.

Flow model secondary: FabFlow for permeable fabrics.

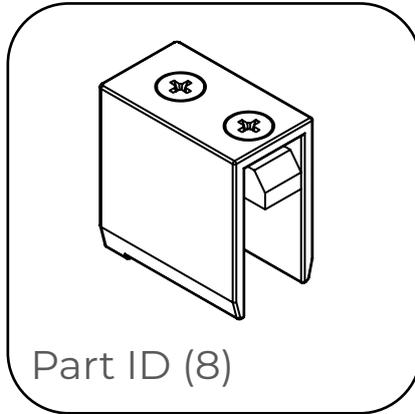
Suspension type: the suspension model selected for the project.

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

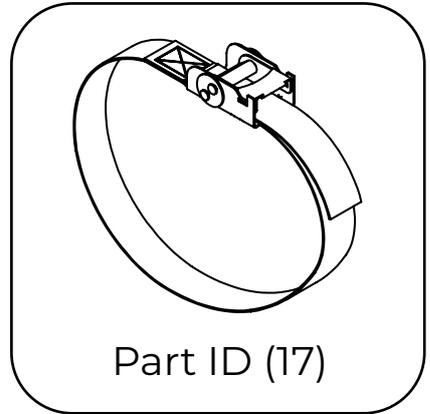
1.2 Type 13 suspension components (located on packing lists)



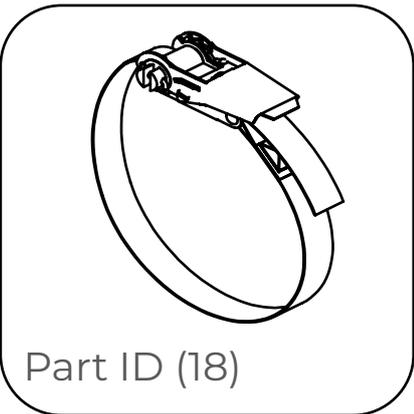
H-Rail connector



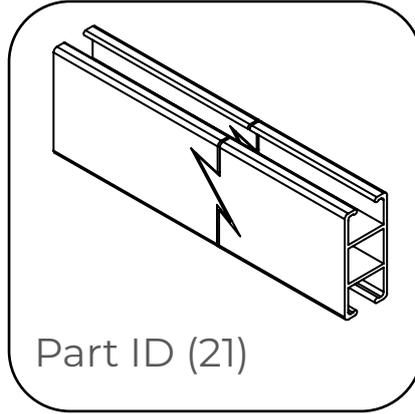
H-Rail endcap



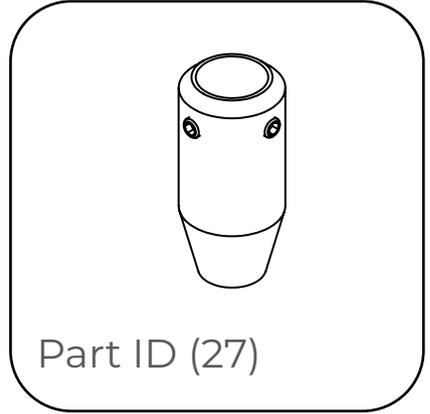
Fixing strap for duct
Ø < 508 mm [20"]



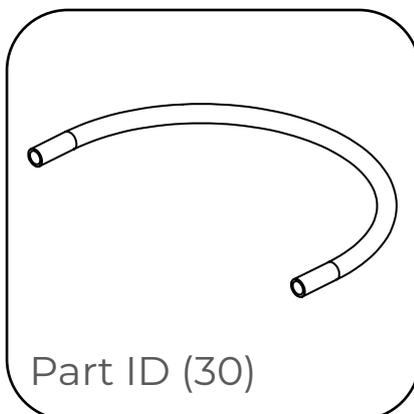
Fixing strap for duct
Ø > 508 mm [20"]



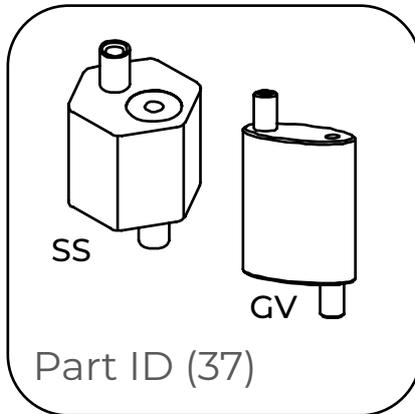
H-Rail profile



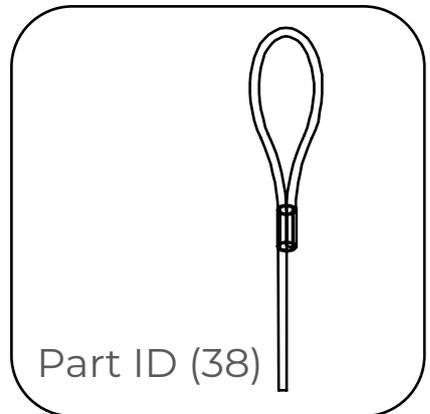
Rod end connector



Bent rod

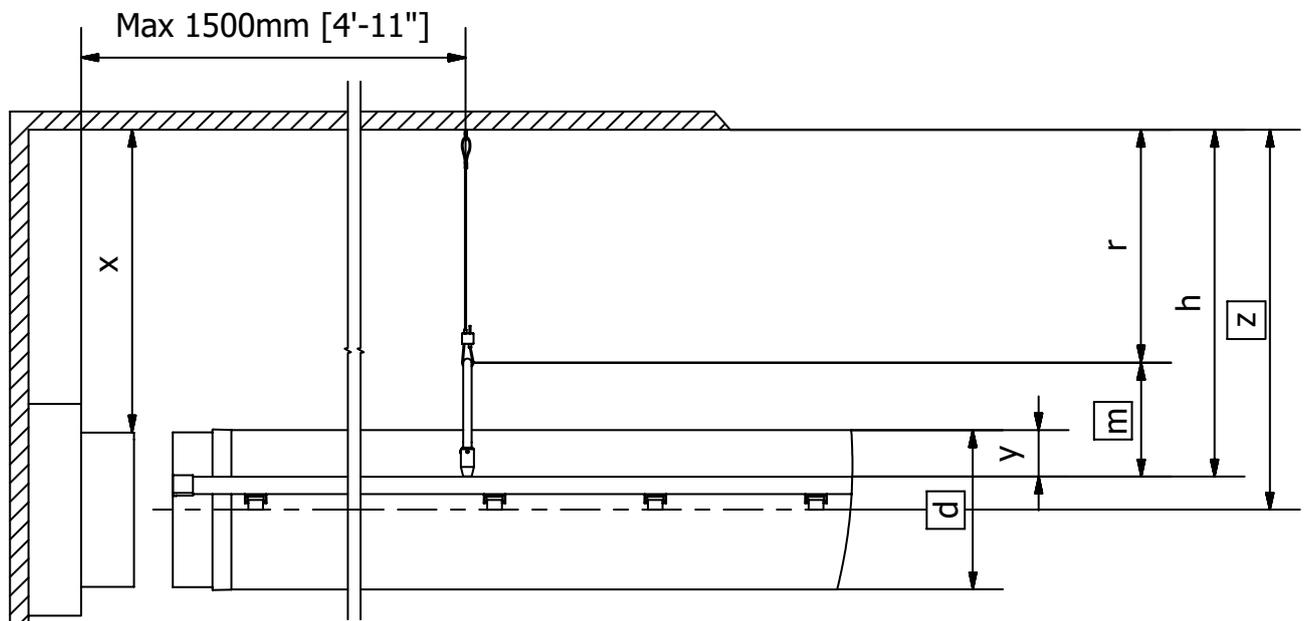
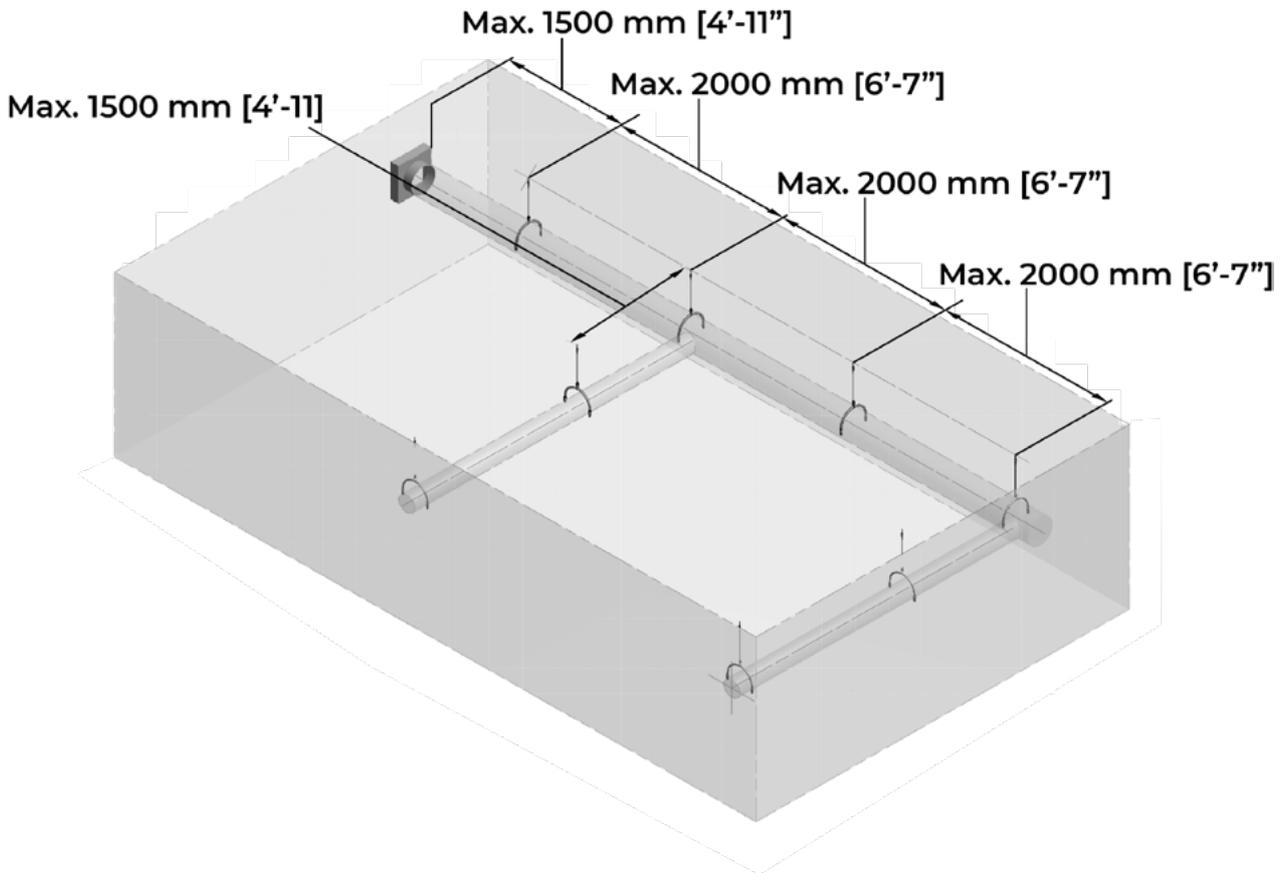


Adjustable cable lock
for vertical hangers
Available in
2 options – GV and SS



Adjustable cable with
loop

2.0 SUSPENSION INSTALLATION



$$x = z - \frac{1}{2} d$$

$$y = \frac{1}{2} d - 63 \text{ mm [2.48"]}$$

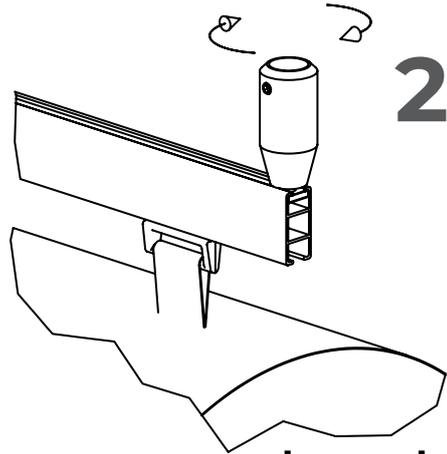
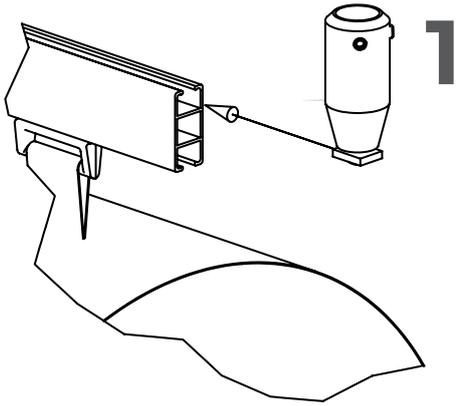
d = diameter

$$h = x + y$$

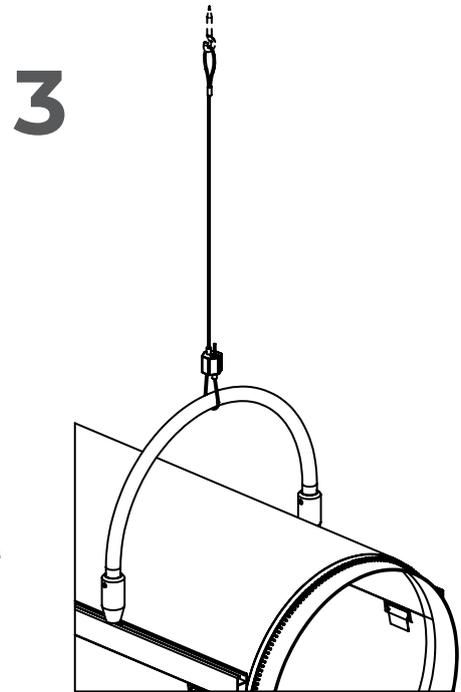
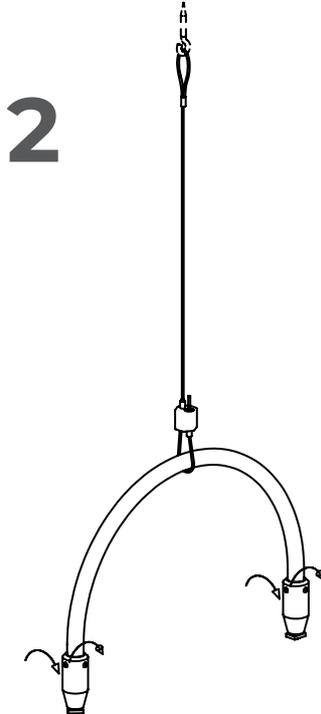
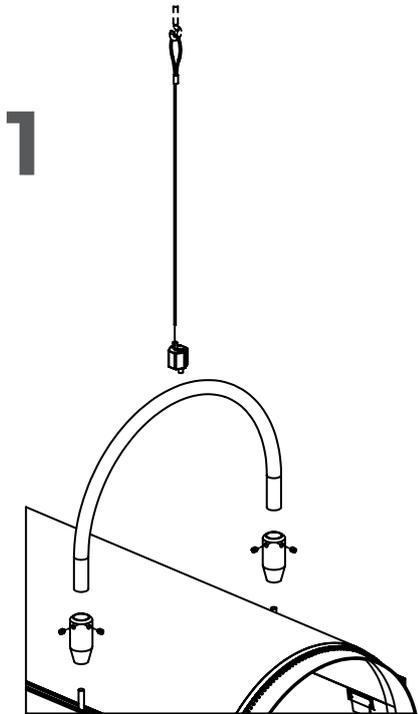
$$r = h - m$$

S = 30 mm [1.2"] minimum length

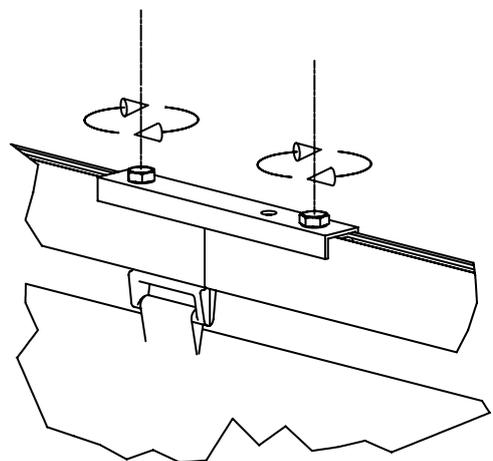
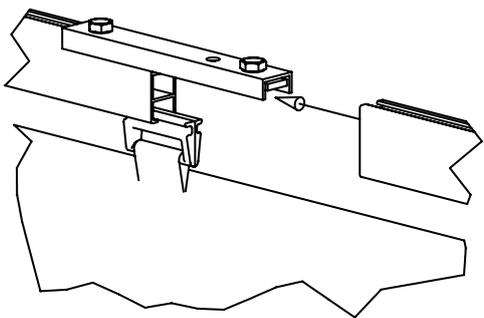
2.1 Insert the spacer rod fasteners



2.2 Connect the rails using the spacer rods and fasteners



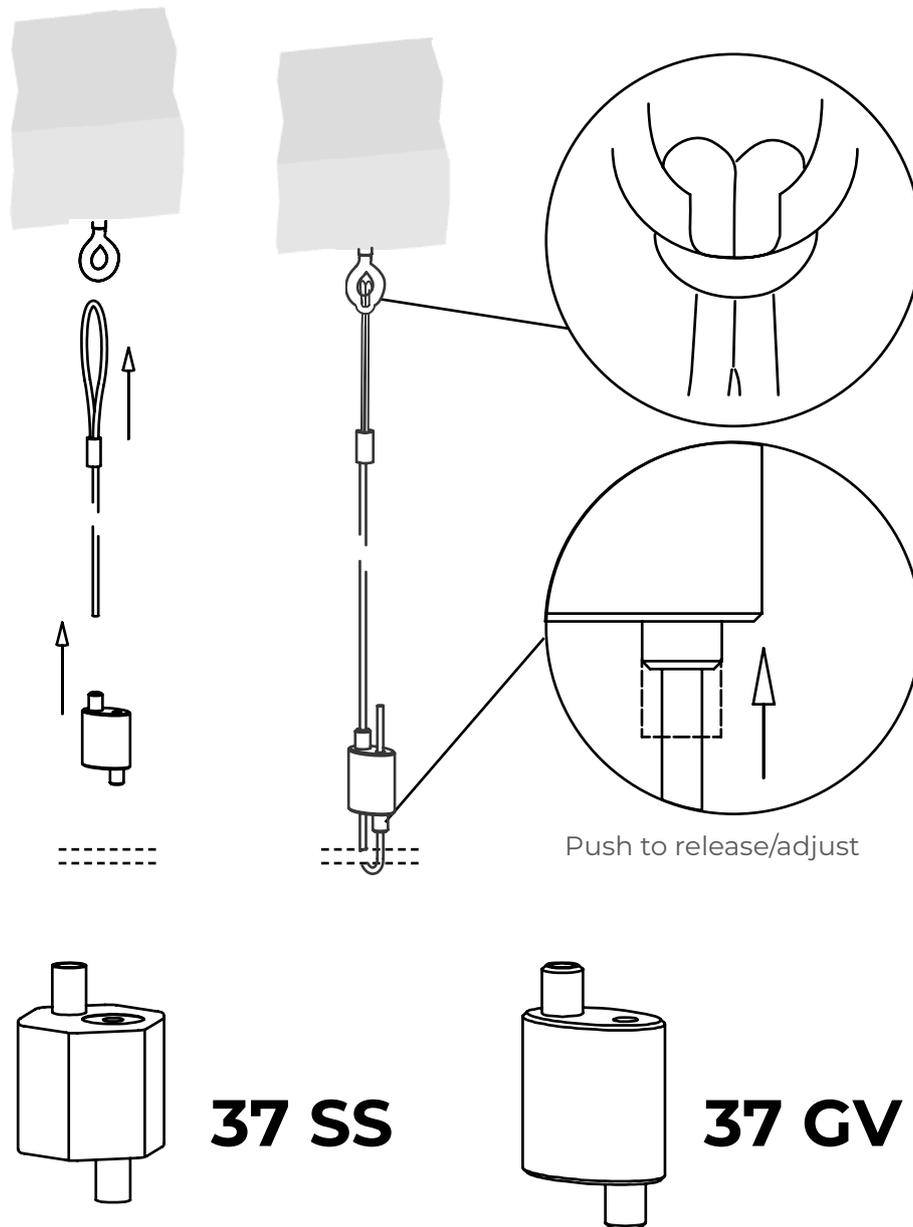
2.3 Joining profiles



- Duct will have sliders or a bulb edge to slide into H-Rail.
- Systems with elbows are provided with H-Rail bent to match the exact angles necessary.

2.4 Vertical hangers

- Connection to ceiling structure shall be supplied by the contractor.
- Adjustable cable with loop – available in 2/5/10 m [7'/16'/32'] length.

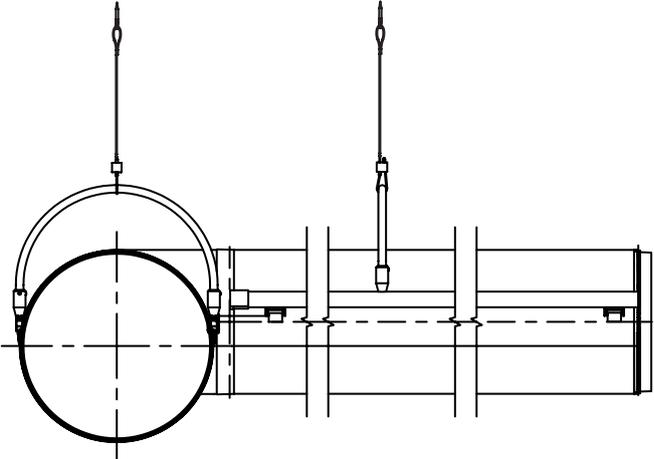
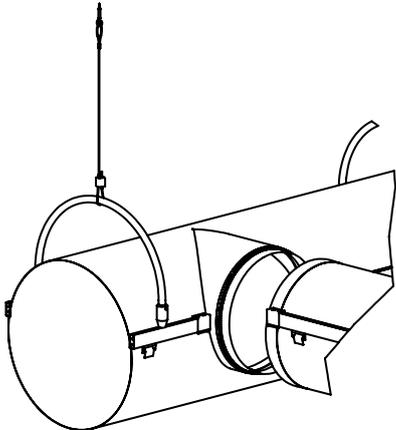


- The weight of a FabricAir system is < 3 kg/m [< 2 lbs/ft]. Anchors to the structure may be selected accordingly (5:1 safety factor is always recommended).
- In corrosive areas we recommend sealing all connections to walls/ceilings, to prevent corrosion of the structure. Always use approved paint/sealant.

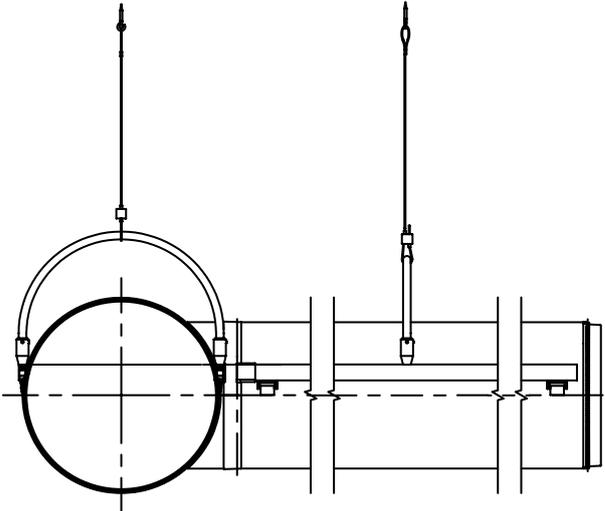
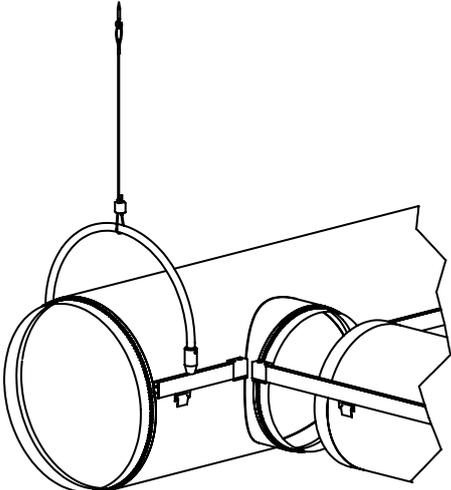
NOTE! Hardware quantities for vertical hangers are calculated based on 2 m [6'-7"] spacing. Installer must request additional hardware if vertical anchor spacing is to be less than 2 m [6'-7"].

2.5 Branches

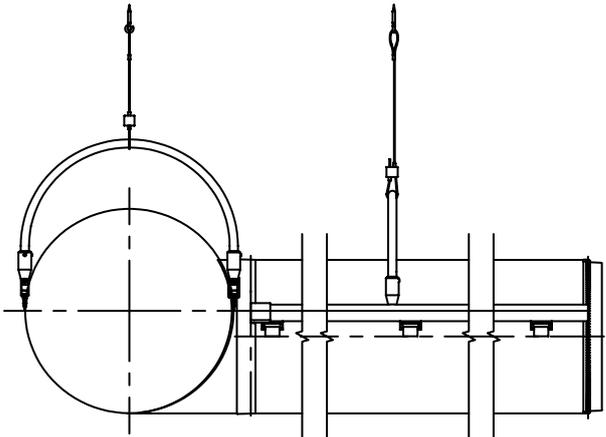
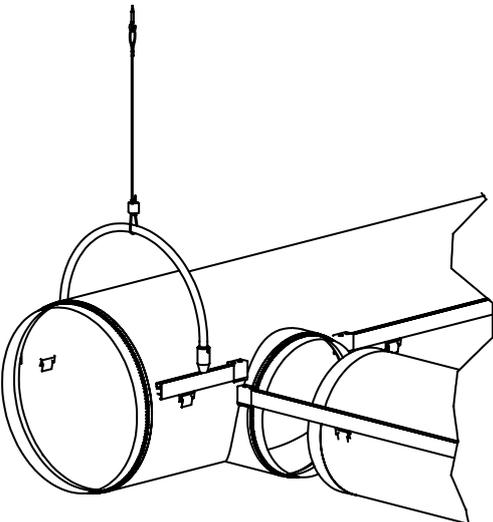
Top aligned branch



Middle aligned branch with extended strap length

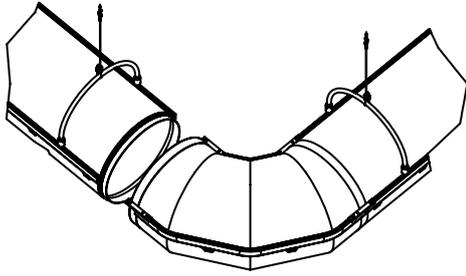


Bottom aligned branch with extended strap length



2.6 Detailed suspension installation details

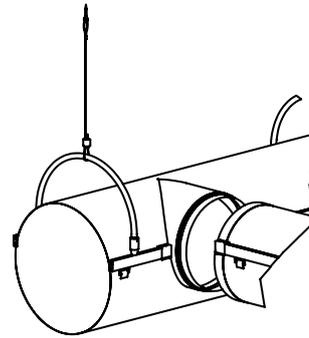
Use QR code for more detailed information for each type.



Bendings and elbows

All degrees and sizes

Drawings

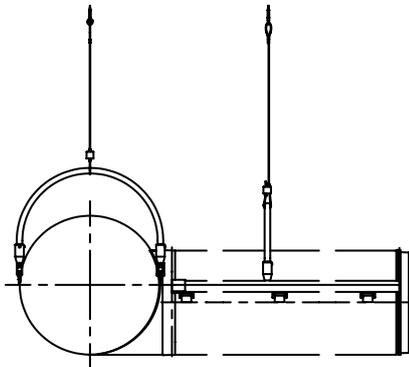


Branches

Top/center/bottom aligned

Drawings

Click or Scan

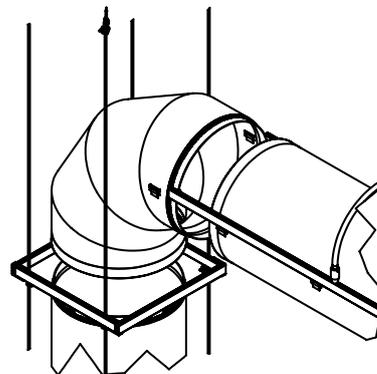


Reductions

Top/center/bottom aligned

Drawings

Click or Scan



Vertical duct suspension methods

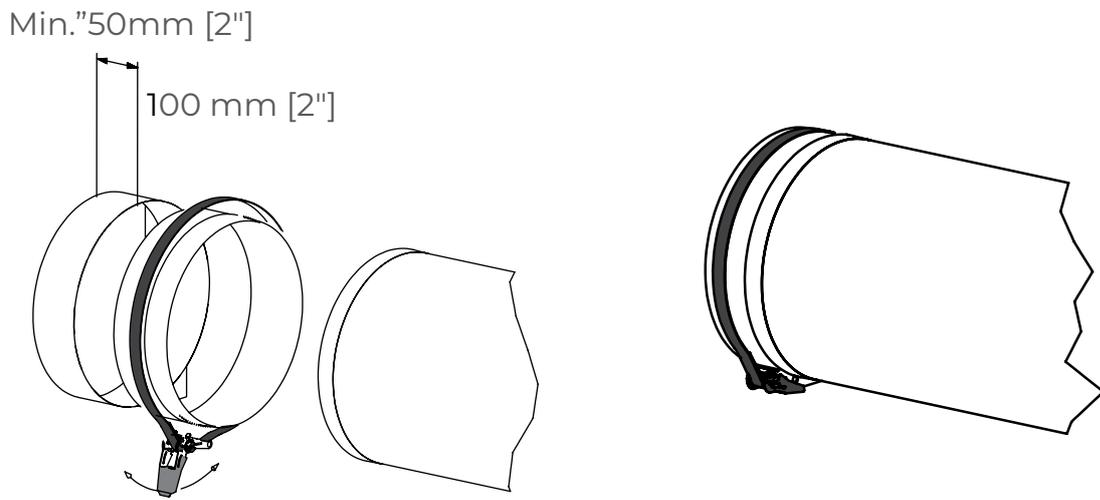
Drawings

Click or Scan

Click or Scan

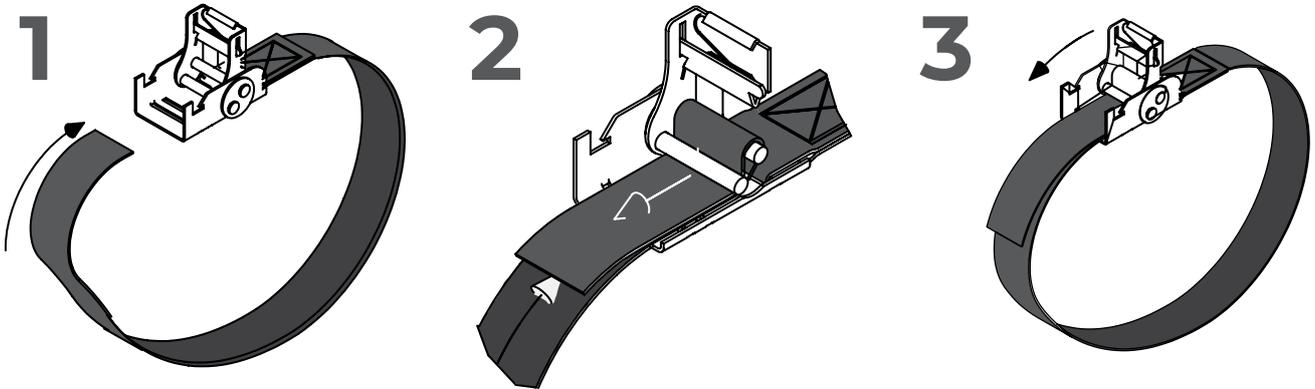
3.0 INSTALLING THE FABRIC

3.1 Connection to sheet metal part with fixing strap

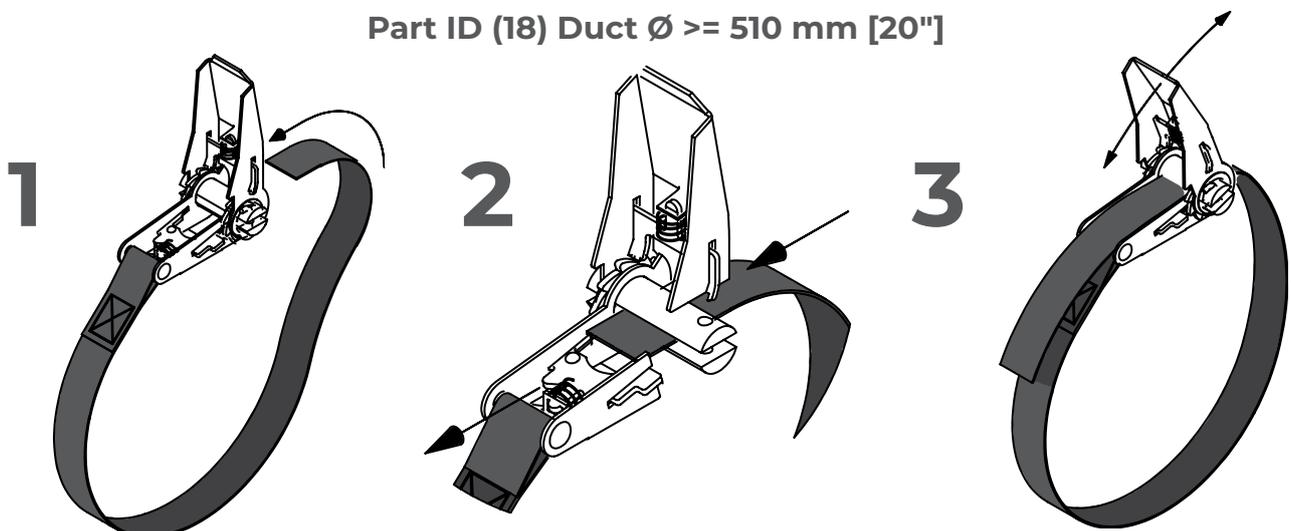


3.2 Fixing straps

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

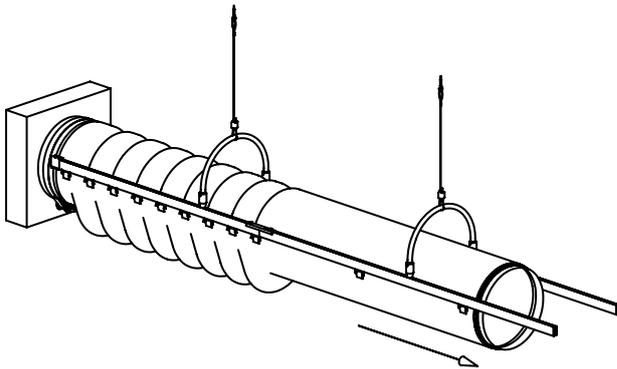


Part ID (18) Duct $\varnothing \geq 510$ mm [20"]



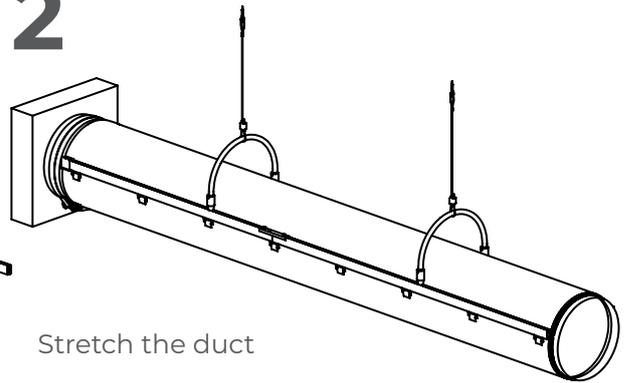
3.3 Installation of duct on H-Rail

1



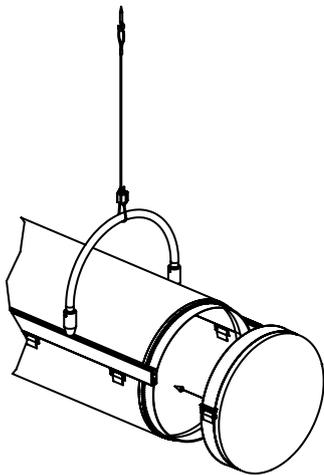
Insert hangers into the rail

2



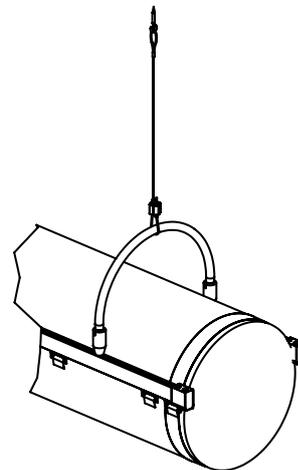
Stretch the duct

3



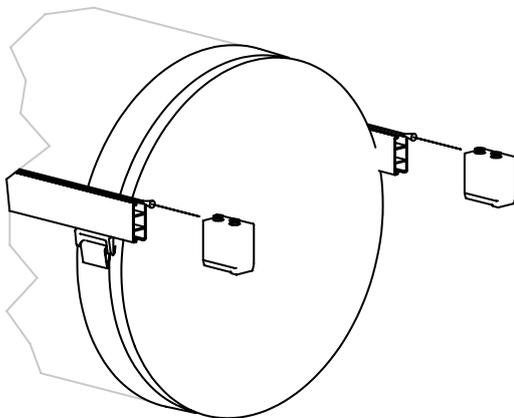
Insert hangers in the rail

4



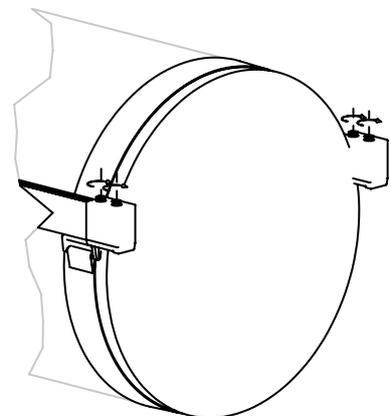
Slide endcap to the end of the duct. Zip it

5



Secure duct by inserting end lock

6



Fix end lock by turning bolt clockwise



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