

high aesthetics duct system



Requirements

- > fast and easy construction and installation
- > minimal amount of space
- > off-cuts reduction
- > high aesthetics

Applications

- > quadrangular ducts to be installed in civil, commercial and professional systems with pressures up to 300 Pa



P3ductal smart8
fast construction duct[al] system

P3ductal smart8.12: octagonal air ducts solution for low pressure systems with high aesthetical requirements

The Kit consists of 5 pre-cut Piral HD Hydrotec panels (each one long 1200 mm; equivalent to 6 m of linear duct), 12 mm thick, with 80 µm/80 µm embossed/embossed aluminium and 5 “labyrinth” bayonets. The panels are painted externally with RAL5025 light blue and anti-scratch paint.



Kit characteristics

Panels

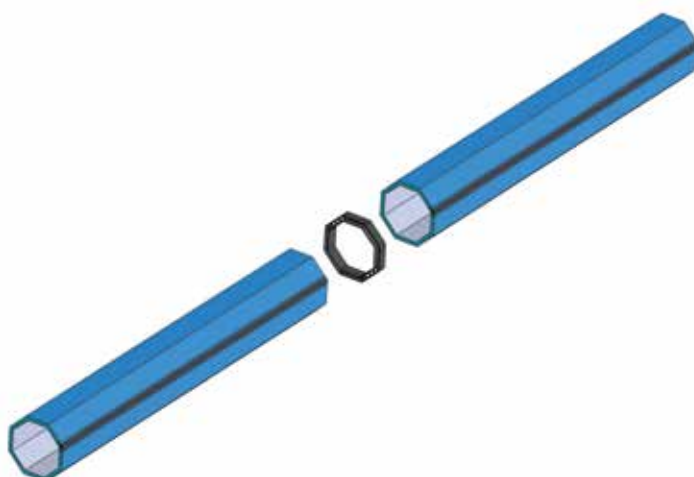
5 sheets
1200 mm length of each one
6 m total linear duct
12 mm thickness • 60 kg/m³ foam density
80 µm/80 µm embossed/embossed al.

“Labyrinth” bayonet

5 bars - 1200 mm length of each one

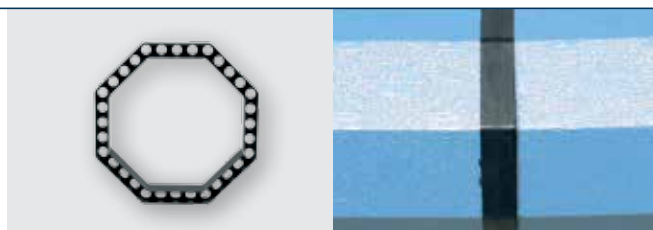


Code	Description
30ST15	P3ductal Smart8.12 kit ø 150 mm
30ST20	P3ductal Smart8.12 kit ø 200 mm
30ST25	P3ductal Smart8.12 kit ø 250 mm
30ST30	P3ductal Smart8.12 kit ø 300 mm
30ST35	P3ductal Smart8.12 kit ø 350 mm
30ST40	P3ductal Smart8.12 kit ø 400 mm



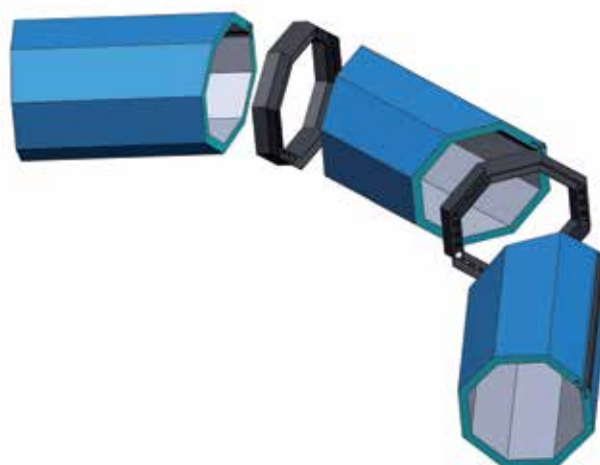
straight frames for joining straight ducts

Straight octagonal nylon frames, black in colour, fire reaction class V0 according to UL94, used for the fast joining of linear ducts.



Straight frames for joining straight ducts	
Code	Description
21GD15	Frame for joining straight ducts with section 150 mm
21GD20	Frame for joining straight ducts with section 200 mm
21GD25	Frame for joining straight ducts with section 250 mm
21GD30	Frame for joining straight ducts with section 300 mm
21GD35	Frame for joining straight ducts with section 350 mm
21GD40	Frame for joining straight ducts with section 400 mm

bend



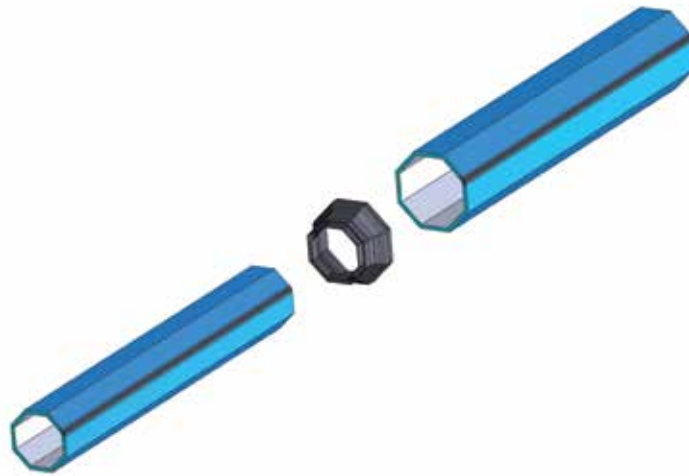
angled frames for joining angled ducts

Angled octagonal nylon frames, black in colour, fire reaction class V0 according to UL94, used for the fast joining of angled ducts.



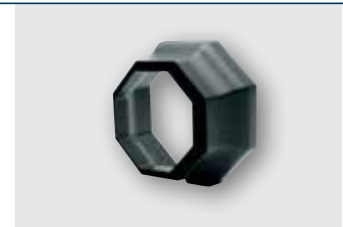
Angled frames for joining angled ducts

Code	Description
216C15	Frame for joining angled ducts with \varnothing 150 mm
216C20	Frame for joining angled ducts with \varnothing 200 mm
216C25	Frame for joining angled ducts with \varnothing 250 mm
216C30	Frame for joining angled ducts with \varnothing 300 mm
216C35	Frame for joining angled ducts with \varnothing 350 mm
216C40	Frame for joining angled ducts with \varnothing 400 mm



reductions

Black ABS reduction

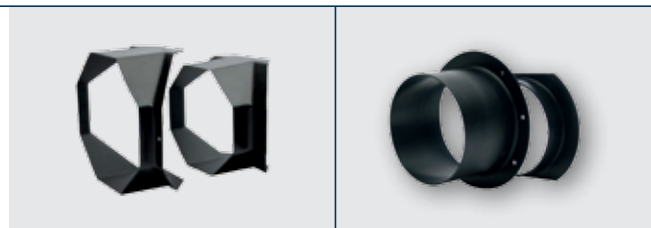


Reduction	
Code	Description
21R02015	Octagonal reduction from \varnothing 200 mm to \varnothing 150 mm
21R02515	Octagonal reduction from \varnothing 250 mm to \varnothing 150 mm
21R02520	Octagonal reduction from \varnothing 250 mm to \varnothing 200 mm
21R03020	Octagonal reduction from \varnothing 300 mm to \varnothing 200 mm
21R03025	Octagonal reduction from \varnothing 300 mm to \varnothing 250 mm
21R03525	Octagonal reduction from \varnothing 350 mm to \varnothing 250 mm
21R03530	Octagonal reduction from \varnothing 350 mm to \varnothing 300 mm
21R04025	Octagonal reduction from \varnothing 400 mm to \varnothing 250 mm
21R04030	Octagonal reduction from \varnothing 400 mm to \varnothing 300 mm
21R04035	Octagonal reduction from \varnothing 400 mm to \varnothing 350 mm

Take-offs and end-caps

Take-offs and T take-offs

Black ABS take-offs



Take-offs

Code	Description
21CN15	Take-off ø 150 mm
21CN20	Take-off ø 200 mm
21CN25	Take-off ø 250 mm
21CN30	Take-off ø 300 mm
21CN35	Take-off ø 350 mm
21CN40	Take-off ø 400 mm
21ST15	"T" take-off ø 150 mm
21ST20	"T" take-off ø 200 mm
21ST25	"T" take-off ø 250 mm
21ST30	"T" take-off ø 300 mm
21ST35	"T" take-off ø 350 mm
21ST40	"T" take-off ø 400 mm

End-caps

Black ABS end-caps



End-caps

Code	Description
21FD15	Octagonal end-cap ø 150 mm
21FD20	Octagonal end-cap ø 200 mm
21FD25	Octagonal end-cap ø 250 mm
21FD30	Octagonal end-cap ø 300 mm
21FD35	Octagonal end-cap ø 350 mm
21FD40	Octagonal end-cap ø 400 mm

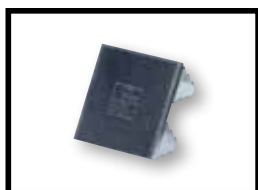
accessories and equipment

Code	Description
15HP12 ^{smart}	Piral HD Hydrotec panel th. 12 mm
21CL14	Smart profile glue
21TG02	Straight joining clip
21SS09	Frame hanger bracket for waved aluminium tape
21SS08	Waved aluminium tape for hooked hanger bracket
21FN14	Octagonal duct closing bayonet, 1,2 m long
21PR18	Aluminium "U" section bar for 12 mm panels
21PR19	Aluminium "F" section bar for 12 mm panels
21PR28	Plasterboard profile in aluminium 12 mm
21PR39	Chair section bar in aluminium 12 mm
21NS06	Embossed al. tape, 50 µm thick and 50 mm wide

Code	Description
22SG02	Band saw
22PL03	90° straight jack plane
22PB22	22,5° jack plane
22PL15	Jack plane blades for 12 mm panels
22SQ08	22,5° ABS square
22MT01	Nylon marking pencil
22CT01	Cutter
22CT02	Hack saw
22CT03	Adjustable round cutter for collars
22SL01	Soft spatula
22ML01	Rubber hammer
22MR01	Folding ruler
22MR02	Tape measure



Smart profile glue



Joining clip



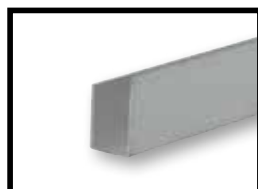
Frame hanger bracket



Waved aluminium tape



Closing bayonet



"U" section bar



"F" section bar



Aluminium tape



Band saw



90° jack plane



22,5° jack plane



Blades



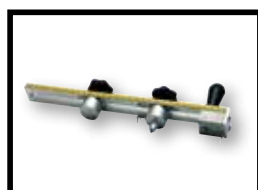
22,5° ABS square



Nylon marking pencil



Cutter and hack saw



Round cutter for collars



Soft spatula and hammer



Folding ruler, tape measure



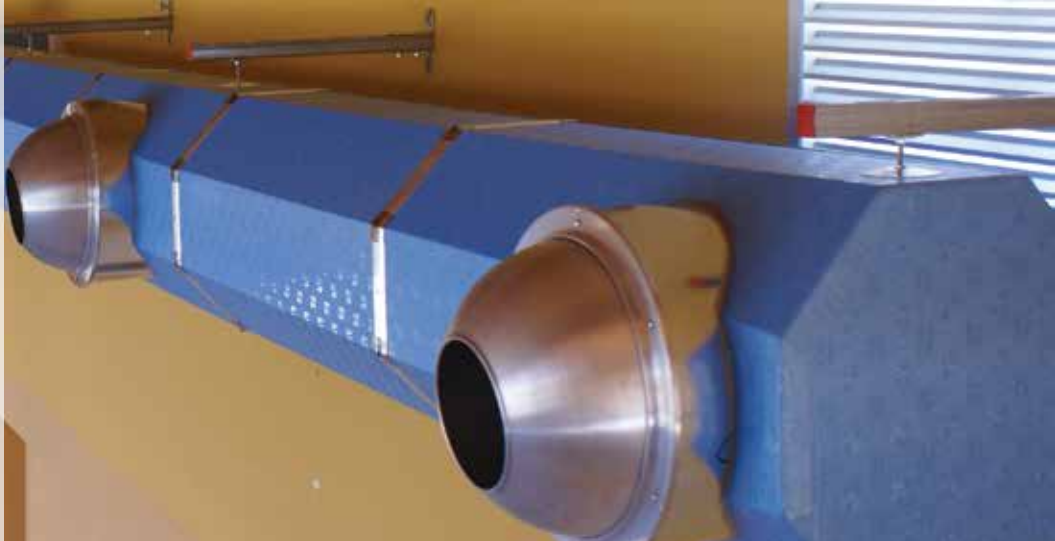
Panel th. 12 mm

Requirements

- > medium pressure systems
- > section from 500 up to 800 mm available
- > 20 mm panel thickness
- > internal aluminium with antimicrobial treatment

Applications

- > high aestetichs medium pressure systems



P3ductal smart8
fast construction duct[al] system

P3ductal smart8.20: octagonal air ducts solution for low pressure systems with high aesthetical requirements

Pre-cut Piral HD Hydrotec panels (equivalent to 3 ducts, each one long 1200 mm), 20 mm thick, 52 kg/m³ foam density, with 80 µm/80 µm embossed/smooth aluminium with antimicrobial internal treatment.

The panels are painted externally with RAL5025 light blue and anti-scratch paint.

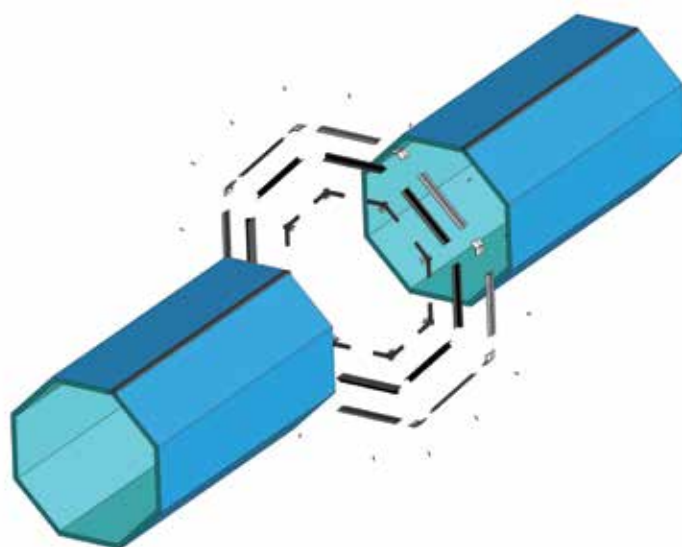
P3ductal smart 8.20 kit

Code	Description
30ST50	P3ductal Smart8.20 kit ø 500 mm
30ST60	P3ductal Smart8.20 kit ø 600 mm
30ST70	P3ductal Smart8.20 kit ø 700 mm
30ST80	P3ductal Smart8.20 kit ø 800 mm

Bayonet

Code	Description
21FN29	Octagonal duct closing bayonet, 1,2 m long

straight duct



21PR22 - T profile

T profile 20 mm thickness



21SQ08 - reinforcement corners

22,5° reinforcement corners th. 20 mm



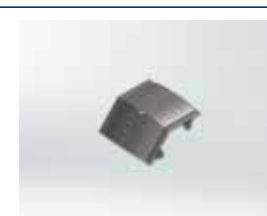
21PR23 - covering frames

Aluminium covering frames



21FN20 - covering flames

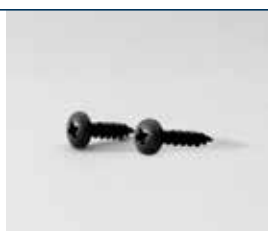
22,5° covering frames



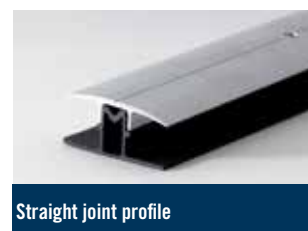
21RF04/05 - screws

21RF04 Screws for 21PR23

21RF05 Screws for 21FN20



T profile joining
reinforcement corner



Straight joint profile

Straight joint kit

Code	Description
21GD50	Straight joint kit ø 500 mm
21GD60	Straight joint kit ø 600 mm
21GD70	Straight joint kit ø 700 mm
21GD80	Straight joint kit ø 800 mm

8.20 straight joint kit components

Code	Description
21PR22	T profile 20 mm thicknes
21SQ08	22,5° reinforcement corners th. 20 mm
21PR23	Aluminium covering frames
21FN20	22,5° covering frames
21RF04	20 mm screws for 21PR23
21RF05	25 mm screws for 21FN20

bend



21PR22 - T profile

20 mm T profile



21PR26 - external angle T profile

T profile th. 20 mm for external angle



21PR27 - internal angle T profile

T profile th. 20 mm for internal angle



21SQ08 - reinforcement corner

22,5° reinforcement corner th. 20 mm



21PR23 - covering frame

Aluminium covering frame



21PR24 - external angle covering frame

Aluminium covering frame for external angle



21PR25 - internal angle covering frame

Aluminium covering frame for internal angle



21FN23 - covering angle

22,5° covering angle for external angle



21FN24 - mid-external covering angle

22,5° covering angle for mid-external angle



21FN25 - mid-internal covering angle

22,5° covering angle for mid-internal angle



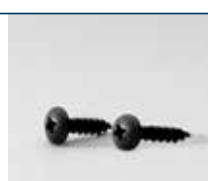
21FN26 - internal covering angle

22,5° covering angle for internal angle



21RF04/05 - screws

21RF04 screws for 21PR23/4/5
21RF05 screws for 21FN23 e 21FN24/5/6



Bend joint kit	
Code	Description
21GC50	Bend joint kit ø 500 mm
21GC60	Bend joint kit ø 600 mm
21GC70	Bend joint kit ø 700 mm
21GC80	Bend joint kit ø 800 mm

8.20 bend joint kit components	
Code	Description
21PR22	20 mm T profile
21PR26	T profile th. 20 mm for external angle
21PR27	T profile th. 20 mm for internal angle
21SQ08	22,5° reinforcement corner th. 20 mm
21PR23	Aluminium covering frame
21PR24	Aluminium covering frame ext. angle
21PR25	Aluminium covering frame int. angle

Code	Description
21FN23	22,5° covering angle ext. angle
21FN24	22,5° covering angle mid-ext. angle
21FN25	22,5° covering angle mid-int. angle
21FN26	22,5° covering angle internal angle
21RF04	20 mm screws for 21PR23/4/5
21RF05	25 mm screws for 21FN23/4/5/6



Requirements

- > medium pressure systems
- > section from 900 up to 1200 mm available
- > 30 mm panel thickness
- > internal aluminium with antimicrobial treatment

Applications

- > high aestetichs medium pressure systems

P3ductal smart8
fast construction duct[al] system

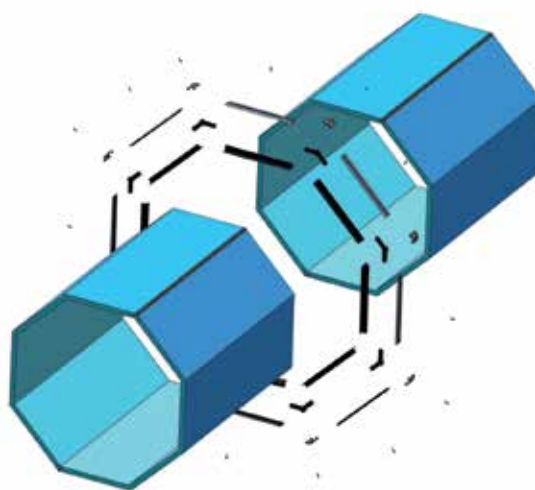
P3ductal smart8.30: octagonal air ducts solution for low pressure systems with high aesthetical requirements

Pre-cut Piral HD Hydrotec panels (equivalent to 2 ducts, each one long 1200 mm), 30 mm thick, 48 kg/m³ foam density, with 200 µm/80 µm embossed/smooth aluminium with antimicrobial internal treatment. The panels are painted externally with RAL5025 light blue and anti-scratch paint.

P3ductal smart 8.30 kit	
Code	Description
30ST90	P3ductal Smart8.30 kit ø 900 mm
30ST100	P3ductal Smart8.30 kit ø 1000 mm
30ST110	P3ductal Smart8.30 kit ø 1100 mm
30ST120	P3ductal Smart8.30 kit ø 1200 mm

Bayonet	
Code	Description
21FN30	Octagonal duct closing bayonet, 1,2 m long

straight duct



21PR20 - T profile

T profile 30 mm thickness



21SQ07 - reinforcement corners

22,5° reinforcement corners th. 30 mm



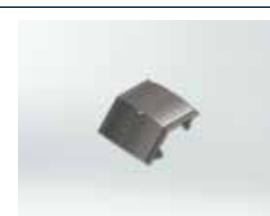
21PR23 - covering frames

Aluminium covering frames



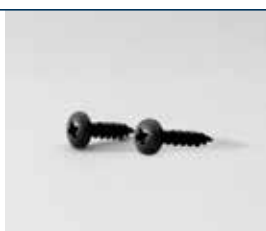
21FN20 - covering flanges

22,5° covering frames

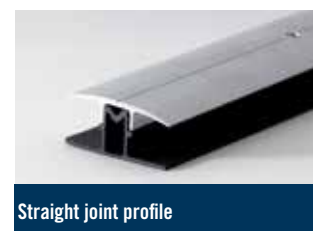


21RF04/05 - screws

21RF04 Screws for 21PR23
21RF05 Screws for 21FN20



T profile joining
reinforcement corner



Straight joint profile

Straight joint kit

Code	Description
21GD90	Straight joint kit ø 900 mm
21GD100	Straight joint kit ø 1000 mm
21GD110	Straight joint kit ø 1100 mm
21GD120	Straight joint kit ø 1200 mm

8.30 straight joint kit components

Code	Description
21PR20	T profile 30 mm thickness
21SQ07	22,5° reinforcement corners th. 30 mm
21PR23	Aluminium covering frames
21FN20	22,5° covering frames
21RF04	20 mm screws for 21PR23
21RF05	25 mm screws for 21FN20



21PR20 - T profile

30 mm T profile



21PR30 - external angle T profile

T profile th. 30 mm
for external angle



21PR31 - internal angle T profile

T profile th. 30 mm
for internal angle



21SQ07 - reinforcement corner

22,5° reinforcement
corner th. 30 mm



21PR23 - covering frame

Aluminium covering
frame



21PR24 - external angle covering frame

Aluminium covering
frame for external
angle



21PR25 - internal angle covering frame

Aluminium covering
frame for internal
angle



21FN23 - covering angle

22,5° covering
angle for external
angle



21FN24 - mid-external covering angle

22,5° covering
angle for
mid-external angle



21FN25 - mid-internal covering angle

22,5° covering
angle for
mid-internal angle



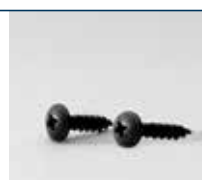
21FN26 - internal covering angle

22,5° covering
angle for internal
angle



21RF04/05 - screws

21RF04 screws for
21PR23/4/5
21RF05 screws for
21FN23 e
21FN24/5/6



Bend joint kit	
Code	Description
21GC90	Bend joint kit ø 900 mm
21GC100	Bend joint kit ø 1000 mm
21GC110	Bend joint kit ø 1100 mm
21GC120	Bend joint kit ø 1200 mm

8.30 bend joint kit components	
Code	Description
21PR20	30 mm T profile
21PR30	T profile th. 30 mm for external angle
21PR31	T profile th. 23 mm for internal angle
21SQ07	22,5° reinforcement corner th. 30 mm
21PR23	Aluminium covering frame
21PR24	Aluminium covering frame ext. angle
21PR25	Aluminium covering frame int. angle

Code	Description
21FN23	22,5° covering angle ext. angle
21FN24	22,5° covering angle mid-ext. angle
21FN25	22,5° covering angle mid-int. angle
21FN26	22,5° covering angle internal angle
21RF04	20 mm screws for 21PR23/4/5
21RF05	25 mm screws for 21FN23/4/5/6