

**OPTIMA CANOPY**



Create, Accentuate, Define

Optima Canopy is a mineral panel, pre-formed into a convex, concave, square, circle, hexagon, trapezoid, or parallelogram shape. The different shapes enable you to accentuate an area and express your creativity.

Optima Canopy is a new solution which complements and extends the current collection of Armstrong Canopies.

Optima Canopy is a creative design solution for many different room types and environments with a wide variety of shapes and designs available.

Optima Canopy improves the overall comfort of an individual's working environment, offering excellent sound absorption and light reflectance.

Optima Canopies can be used to provide a striking design for a new space or be used to refresh or renovate an existing area.

Optima Canopies provide a bespoke finish and are very quick and easy to install.

No special tools are required for installation and you can easily adjust and fit the Canopy to a variety of heights and angles.

Hospitality, retail

Offices

Reception areas, atriums

Open plenum areas

Transportation, airports

Exhibitions

Restructure The Space

Optima Canopy is a flat, 22 mm thick, glass fibre panel available in 10 different shapes.

The face and edges are finished with an abrasion resistant paint on a glass fibre face scrim providing a white and strong surface.

An aluminium square frame is embedded in the back of the Canopy. This frame allows the suspension of Optima Canopies as individual shapes or collectively on grouping frames.

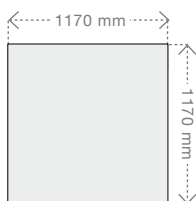
This can be either directly from the soffit or below an existing suspended ceiling system.

Available Shapes

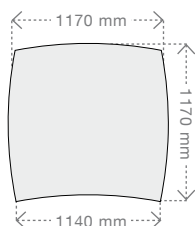


All Optima Canopies are flat panels.

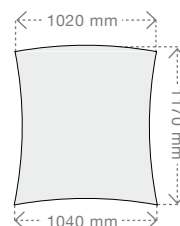
Nominal 1200 x 1200 mm shapes



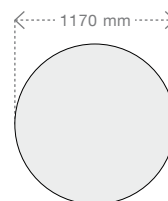
Square



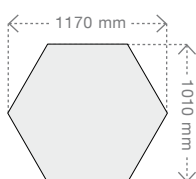
Convex



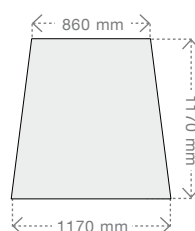
Concave



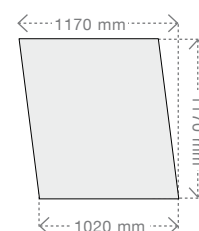
Circle



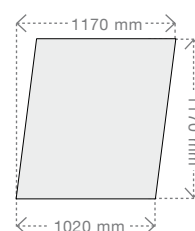
Hexagon



Trapezoid



Left Parallelogram



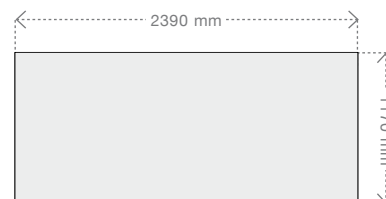
Right Parallelogram

Nominal 1200 x 1800 mm shapes



Small Rectangle

Nominal 1200 x 2400 mm shapes



Large Rectangle

Individual Suspension

- With drywall clips directly to a plasterboard soffit
- With aircraft cables
- Attached to an existing suspended ceiling system



Group Configuration

Using a grouping frame allows a perfect alignment of multiple Canopies close to each other.

You can group shapes in unlimited combinations. Grouping layout ideas are suggested in the Optima Canopy technical brochure. It is also possible to create your own personal designs and layouts.

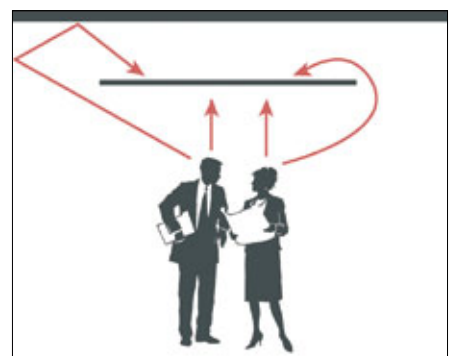
Thanks to the flexibility of the grouping system, you can make your ideas become reality.





Enhanced Acoustical Benefits

Optima Canopy offers excellent sound absorption. Depending on its size, each Canopy provides between 1.5 and 5.25 Sabines of sound absorption per piece, calculated as an average of 500 – 4000 Hz (EN ISO 354). Optima Canopies provide greater sound absorption than a continuous ceiling of the same visible surface area because the sound is absorbed from both the front and back surfaces. Which means one Canopy can absorb up to 88% more sound than the same visible surface area of a traditional wall to wall Optima ceiling.



The high sound absorption performance of Optima Canopy helps to:

- Reduce reverberation time
- Reduce background noise level

Physical Data

Colour	White
Edge	Paint on edges
Edge detail	Board
Humidity resistance	90% RH
Light reflectance	≈ 90%
Scratch resistance	Yes
Weight	Nominal 1200 x 1200 = 2kg Nominal 1200 x 2400 = 4kg

Sound absorption – Sabine m²

Item nr.	Shape	Sabines* per item
BPCS5440	Square	2.45
BPCS5441	Convex	2.35
BPCS5442	Concave	1.85
BPCS5443	Circle	2.00
BPCS5444	Hexagon	1.50
BPCS5445	Trapezoid	2.05
BPCS5446	Left Parallelogram	2.05
BPCS5447	Right Parallelogram	2.05
BPCS5448	Small Rectangle	3.85
BPCS5449	Large Rectangle	5.25

* Average of 500-4000Hz, laboratory measurements with units suspended at 1 metre, in accordance with EN ISO 354-2003. Call your Internal Technical Sales Group for further information on Canopy acoustic performance.

Cleaning

Use a clean, dry, soft white cloth to wipe off any dirt or fingerprints. Regular light dusting of the back side of the canopy is recommended.



Recommendation



- Attach the gripper structure anchor or the drywall clip with a suitable fastener in accordance with EN13964.
- Optima Canopies are not recommended for external use.
- The Canopy should always be suspended by 2 people.
- In case a Canopy is attached to the grid of an existing ceiling system, it needs to be verified if the load capacity is still sufficient or whether the existing ceiling needs additional hangers to the structure.
- Do not allow excess cable to drop below the Canopy when adjusting the panel to the required height. This could cause injury or panel edge damage.

Please contact our Internal Technical Sales Group for further details 0800 371 849 (UK) and 1800 409 002 (ROI).

Please contact
Internal Technical Sales
for further details.

Other countries:
www.armstrong-europe.com

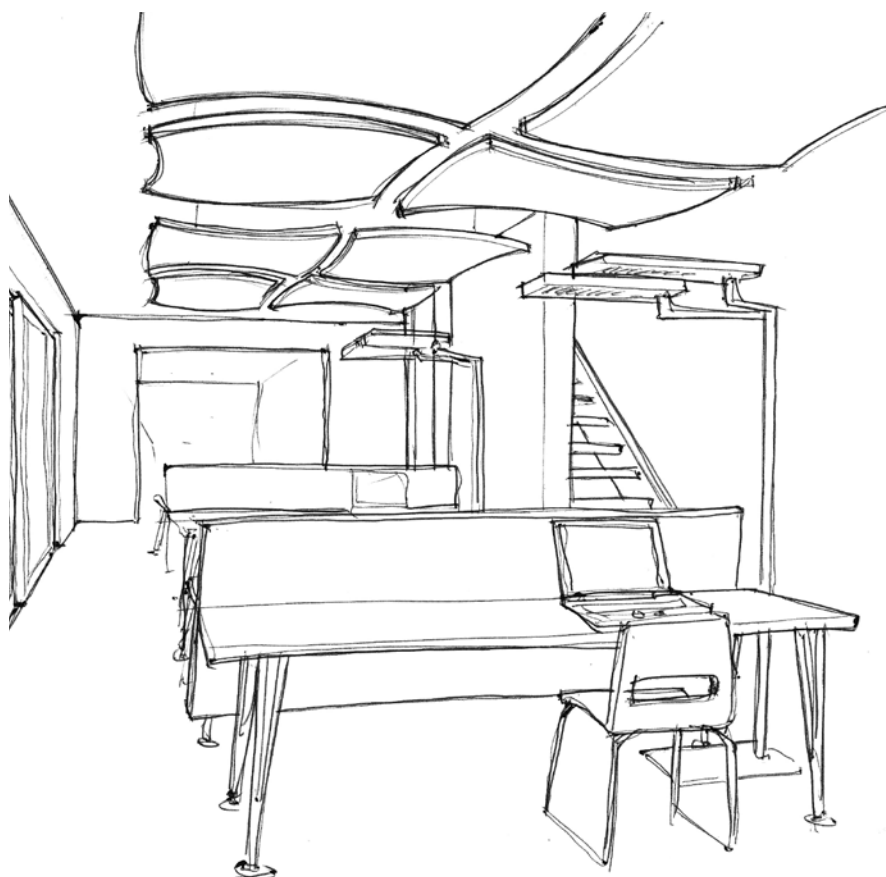
More about acoustics:
www.acousticalceilings.co.uk

United Kingdom / Republic of Ireland

Armstrong World Industries Ltd.
Building Products Division
Armstrong House, 38 Market Square,
Uxbridge UB8 1NG

www.armstrong-ceilings.co.uk
www.armstrong-ceilings.ie
sales-support@armstrong.com
0800 371849 (UK) **FREEPHONE**
1800 409002 (ROI)
Fax: 00 44 (0) 1895 274287



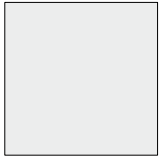


OPTIMA CANOPY

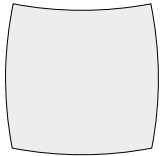
Data sheet



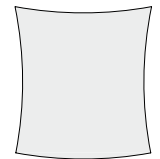
Optima Canopy Shapes



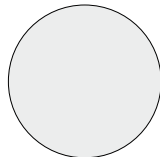
BPCS5440WHG1 Optima Canopy Square carton with 1 pce
BPCS5440WHG2 Optima Canopy Square carton with 2 pcs
BPCS5440WHG4 Optima Canopy Square carton with 4 pcs



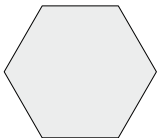
BPCS5441WHG1 Optima Canopy Convex carton with 1 pce
BPCS5441WHG2 Optima Canopy Convex carton with 2 pcs
BPCS5441WHG4 Optima Canopy Convex carton with 4 pcs



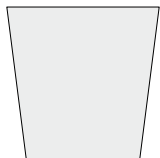
BPCS5442WHG1 Optima Canopy Concave carton with 1 pce
BPCS5442WHG2 Optima Canopy Concave carton with 2 pcs
BPCS5442WHG4 Optima Canopy Concave carton with 4 pcs



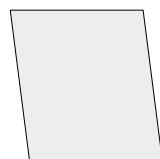
BPCS5443WHG1 Optima Canopy Circle carton with 1 pce
BPCS5443WHG2 Optima Canopy Circle carton with 2 pcs
BPCS5443WHG4 Optima Canopy Circle carton with 4 pcs



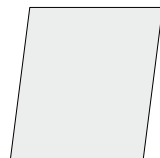
BPCS5444WHG1 Optima Canopy Hexagon carton with 1 pce
BPCS5444WHG2 Optima Canopy Hexagon carton with 2 pcs
BPCS5444WHG4 Optima Canopy Hexagon carton with 4 pcs



BPCS5445WHG1 Optima Canopy Trapezoid carton with 1 pce
BPCS5445WHG2 Optima Canopy Trapezoid carton with 2 pcs
BPCS5445WHG4 Optima Canopy Trapezoid carton with 4 pcs



BPCS5446WHG1 Optima Canopy Left Parallelogram carton with 1 pce
BPCS5446WHG2 Optima Canopy Left Parallelogram carton with 2 pcs
BPCS5446WHG4 Optima Canopy Left Parallelogram carton with 4 pcs



BPCS5447WHG1 Optima Canopy Right Parallelogram carton with 1 pce
BPCS5447WHG2 Optima Canopy Right Parallelogram carton with 2 pcs
BPCS5447WHG4 Optima Canopy Right Parallelogram carton with 4 pcs



BPCS5448WHG1 Optima Canopy Small Rectangle carton with 1 pce
BPCS5448WHG2 Optima Canopy Small Rectangle carton with 2 pcs



BPCS5449WHG1 Optima Canopy Large Rectangle carton with 1 pce
BPCS5449WHG2 Optima Canopy Large Rectangle carton with 2 pcs

Optima Canopy Accessories for Suspension

ACCESSORY KITS - Applications always require more than one kit. Please review your needs carefully.

ITEM NUMBER	KIT CONTENTS
-------------	--------------

BPCS5450G	Soffit Hanging Kit
------------------	--------------------

Allows suspension of individual shapes or grouping frames from the soffit and end adjustment of height at the panel or frame level.

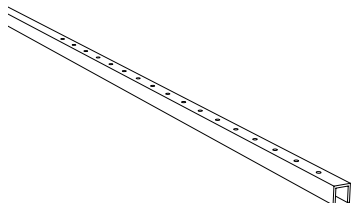
- (2) gripper structure anchors
- (2) gripper structure caps
- (2) 2438 mm aircraft cables
- (2) bottom end cable adjusters
- (2) nuts with washers.



BPCS5451G	Grouping Frames
------------------	-----------------

Suspension frames used to group panels together.

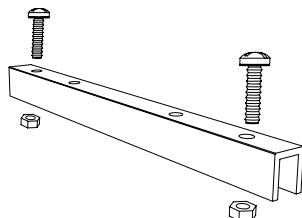
- (4) suspension frames, 3658 mm long, black



BPCS5452G	Frame Splice Kit
------------------	------------------

Connects grouping frames for longer runs (> 3658 mm).

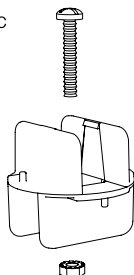
- (2) group frame connectors, 254 mm long, black
- (4) bolts with washers
- (4) nuts



BPCS5453G	Frame Alignment Kit
------------------	---------------------

For use with group suspension frames.

- (4) frame alignment spacers, clear plastic
- (4) bolts
- (4) nuts with washers

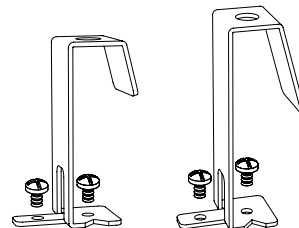


ITEM NUMBER	KIT CONTENTS
-------------	--------------

BPCS5454G	Panel Hook Kit
------------------	----------------

For use with grouping frames, one kit per panel.

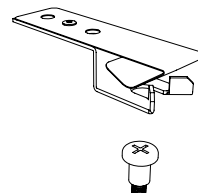
- (2) 114 mm high panel hooks, black
- (2) 89 mm high panel hooks, black
- (8) bolts



BPCS5455G	Drywall Hanging Kit
------------------	---------------------

For individual panel attachment to drywall.

- (2) drywall clip assemblies
- (2) shoulder bolts



BP625530G	Extended Hanging Cables
------------------	-------------------------

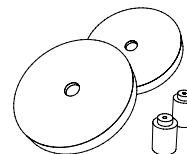
For use with soffit hanging kit when longer cables are needed.

- (4) 9144 mm aircraft cables

BP7006	Escutcheon Kit
---------------	----------------

Used when hanging panels below an existing ceiling.

- (2) collars with set screws
- (2) 51 mm escutcheons



Installation instructions

Installation instructions are detailed in two separate documents:

- Installation instructions for individual elements
- Installation instructions for group configurations

NOTE: If you need assistance identifying what and how many accessory kits are needed for your project, please contact our Internal Technical Sales Group or visit www.armstrong-ceilings.co.uk or www.armstrong-ceilings.ie

Ways You Can Suspend Optima Canopy in Groups

GROUPING IDEAS

You can group shapes in unlimited combinations. Below are a few ideas made possible with standard accessory kits. Group applications always require more than one kit.

4-Panel Square Group Layouts

To create these kinds of groups with a minimum of 51 mm spacing between shapes, you need to order:



(4) shapes:



(4) BPCS5441WHG



(4) BPCS5442WHG



(4) BPCS5440WHG



(4) BPCS5443WHG



(4) BPCS5444WHG



(4) BPCS5445WHG



(4) BPCS5446WHG



(4) BPCS5447WHG

+

(2) BPCS5450G Soffit Hanging Kits

(1) BPCS5451G Grouping Frame Kits

(1) BPCS5453G Frame Alignment Kit

(4) BPCS5454G Panel Hook Kits

4-Panel Linear Group Layouts

To create these kinds of groups with a minimum of 51 mm spacing between shapes, you need to order:



(4) shapes:



(2) BPCS5441WHG
(2) BPCS5442WHG



(4) BPCS5441WHG



(4) BPCS5442WHG



(4) BPCS5440WHG



(4) BPCS5443WHG



(4) BPCS5444WHG



(4) BPCS5445WHG



(4) BPCS5447WHG



(4) BPCS5446WHG



(2) BPCS5446WHG



(2) BPCS5445WHG



(2) BPCS5447WHG
(1) BPCS5446WHG
(1) BPCS5447WHG

+

(3) BPCS5450G Soffit Hanging Kits

(2) BPCS5451G Grouping Frame Kits

(2) BPCS5453G Frame Alignment Kits

(1) BPCS5452G Frame Splice Kit

(4) BPCS5454G Panel Hook Kits

9-Panel Square Group Layouts

To create these kinds of groups with a minimum of 51 mm spacing between shapes, you need to order:



(9) shapes:



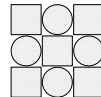
(5) BPCS5441WHG
(4) BPCS5442WHG



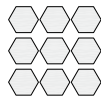
(9) BPCS5440WHG



(9) BPCS5443WHG



(5) BPCS5440WHG



(4) BPCS5443WHG



(9) BPCS5444WHG



(9) BPCS5445WHG



(9) BPCS5446WHG



(9) BPCS5447WHG



(6) BPCS5446WHG

(3) BPCS5445WHG

+

(5) BPCS5450G Soffit Hanging Kits

(2) BPCS5451G Grouping Frame Kits

(3) BPCS5453G Frame Alignment Kits

(9) BPCS5454G Panel Hook Kits

4-Panel Rectangular Layout

To create these kinds of groups with a minimum of 51 mm spacing between shapes, you need to order:



(4) shapes:



(2) BPCS5440WHG & (2) BPCS5448WHG

+

(3) BPCS5450G Soffit Hanging Kits

(1) BPCS5451G Grouping Frame Kit

(1) BPCS5453G Frame Alignment Kit

(4) BPCS5454G Panel Hook Kits

7-Panel Round Layout

To create these groups with a minimum of 51 mm spacing between shapes, you need to order:



(7) shapes:

+

(3) BPCS5450G Soffit Hanging Kits

(1) BPCS5451G Grouping Frame Kit

(1) BPCS5453G Frame Alignment Kit

(4) BPCS5454G Panel Hook Kits



(7) BPCS5444WHG or (7) BPCS5443WHG



NOTE: See Grouping Installation Instructions for details on typical group configurations.

If you need assistance identifying what and how many accessory kits are needed for your project, please contact our Internal Technical Sales Group or visit www.armstrong-ceilings.co.uk or www.armstrong-ceilings.ie

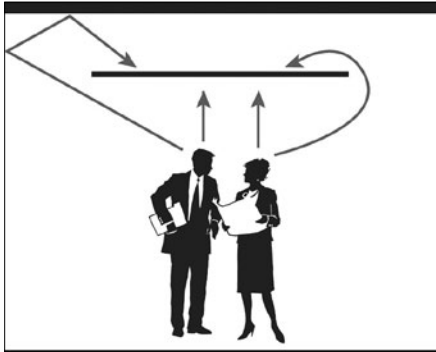
Optima Canopy Acoustics

SOUND ABSORPTION IN SABINES

The Sabine is the unit of total sound absorption provided by an object. This is the preferred measure for “space absorbers” such as clouds, canopies or baffles installed within an architectural space.

Total acoustical absorption for a wall-to-wall suspended ceiling is calculated by multiplying the exposed surface area by the material's α_w value while “space absorbers” are directly measured.

Optima Canopies provide greater sound absorption than a continuous ceiling of the same surface area because the sound is absorbed from both the front and back surfaces.



The installation of clouds and canopies in a reverberant space can significantly reduce the reverberation time and contribute to the reduction in background noise.

Factors that may affect the installed acoustical performance relative to the published results are:

- Size and shape of the cloud(s) to be used
- Number of clouds and their layout
- Suspension distance below exposed soffit or finished ceiling
- Location and vertical or horizontal layering of clouds.

SOUND ABSORPTION IN SABINES FOR EACH OPTIMA CANOPY SHAPE

The following table shows the number of sabines achieved by each shape.

Item nr.	Shape	Sabines* per item
BPCS5440	Square	2.45
BPCS5441	Convex	2.35
BPCS5442	Concave	1.85
BPCS5443	Circle	2.00
BPCS5444	Hexagon	1.50
BPCS5445	Trapezoid	2.05
BPCS5446	Left Parallelogram	2.05
BPCS5447	Right Parallelogram	2.05
BPCS5448	Small Rectangle	3.85
BPCS5449	Large Rectangle	5.25

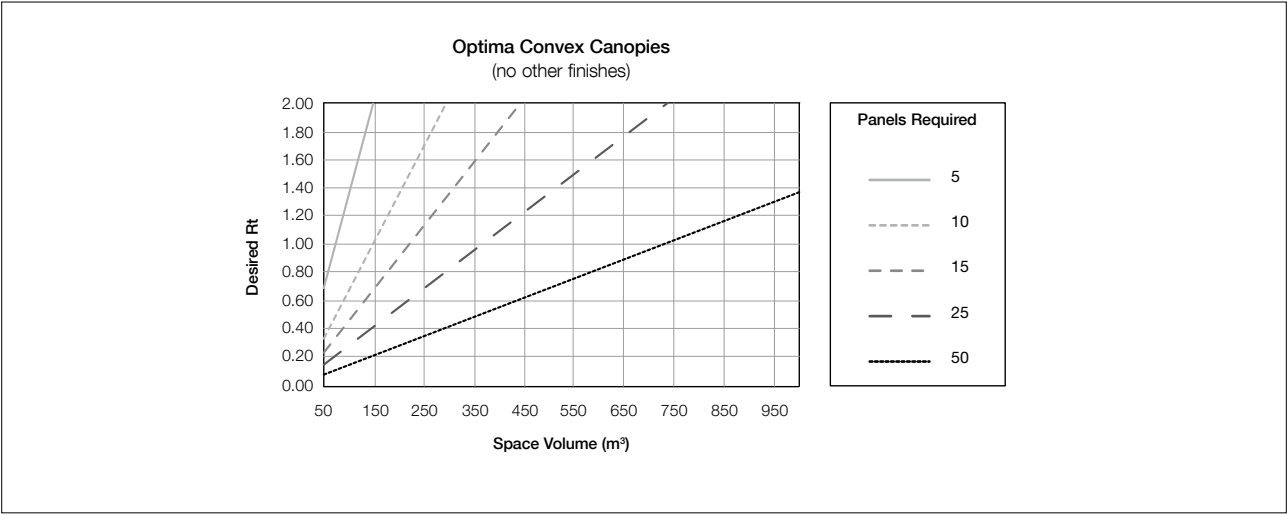
* Average of 500-4000Hz, laboratory measurements with units suspended at 1 meter, in accordance with EN ISO 354-2003. Call your Internal Technical Sales Group for further information on Canopy acoustic performance.

The number of Optima Canopies required for a given space depends on:

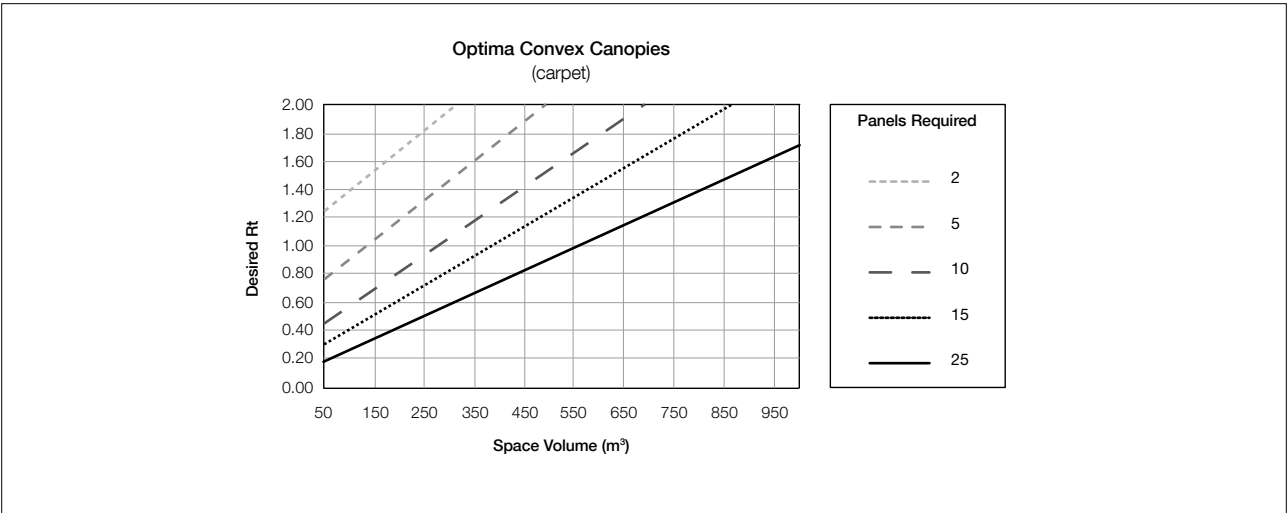
- The volume of the space
- The additional absorbing materials used in that space
- The required Reverberation Time.

For Optima Canopy Convex

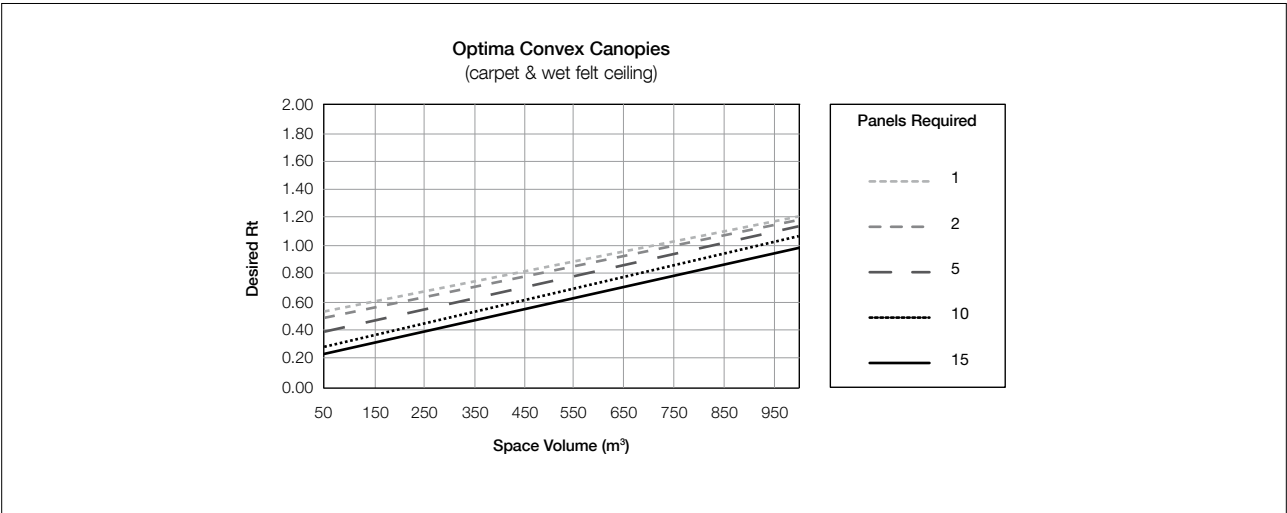
IN A SPACE WITH NO OTHER ABSORBING MATERIALS



IN A SPACE WITH A CARPET



IN A SPACE WITH A CARPET AND A MEDIUM DENSITY MINERAL SUSPENDED CEILING



Examples of Spaces using Optima Canopies



Open Plan Office with a quiet activity and:

- a volume of 1 000 m³
- only with a carpet
- a soffit at 3 metre height
- a required Rt of 0.5 – 0.7 sec

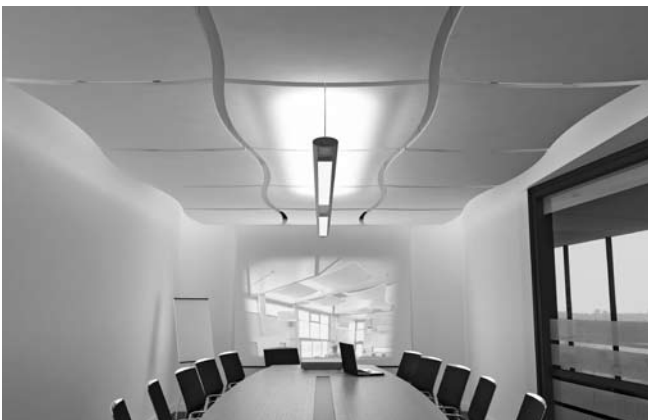
→ Will need 20 Hexagon groupings of 7 pieces



Open Plan Call Centre with a noisy activity and:

- a volume of 900 m³
- with a carpet and a medium density mineral ceiling
- the suspended ceiling at 2.60 metre height
- a required Rt of 0.5 – 0.7 sec

→ Will need 66 Circles



Meeting Room with:

- a volume of 100 m³
- only with a carpet
- a soffit at 3.5 metre height
- a required Rt of 0.4 – 0.6 sec

→ Will need 7 Concave and 8 Convex canopies



School Class Room with:

- a volume of 300 m³
- no other absorbing materials
- a soffit at 3 metre height
- a required Rt of 0.6 - 0.8 sec

→ Will need 15 Small Rectangle canopies (1200 x 1800 mm)

Key Selection Attributes

- Canopies can be used to define spaces, accentuate an area, provide focus and create ceiling sculptures.
- You can mix & match shapes
- Durable
- Washable
- Scrubbable (non-abrasive cloth)
- Impact-Resistant
- Strong Edges
- Standard components allow you to create custom configurations
- Lighting can enhance the impact of canopies
- Use individually or in groupings
- Suspended from the building structure
- Installation is fast and simple – no special tools are required
- Easy to order kits provide all the necessary accessories
- Canopies should not be stacked in vertical design configurations

Typical Applications

High visibility and focus areas, including:

- Hospitality, retail
- Offices
- Reception areas, atriums
- Open plenum areas
- Transportation, airports
- Exhibitions

Physical Data

Colour	White
Edge	Paint on edges
Edge detail	Board
Humidity resistance	90% RH
Light reflectance	≈ 90%
Scratch resistance	Yes
Weight	Nominal 1200 x 1200 = 2kg Nominal 1200 x 2400 = 4kg

Sound absorption – Sabine m²

Item nr.	Shape	Sabines* per item
BPCS5440	Square	2.45
BPCS5441	Convex	2.35
BPCS5442	Concave	1.85
BPCS5443	Circle	2.00
BPCS5444	Hexagon	1.50
BPCS5445	Trapezoid	2.05
BPCS5446	Left Parallelogram	2.05
BPCS5447	Right Parallelogram	2.05
BPCS5448	Small Rectangle	3.85
BPCS5449	Large Rectangle	5.25

* Average of 500-4000Hz, laboratory measurements with units suspended at 1 metre, in accordance with EN ISO 354-2003. Call your Internal Technical Sales Group for further information on Canopy acoustic performance.

Cleaning

Use a clean, dry, soft white cloth to wipe off any dirt or fingerprints. Regular light dusting of the back side of the canopy is recommended.



Recommendation



- Attach the gripper structure anchor or the drywall clip with a suitable fastener in accordance with EN13964.
- Optima Canopies are not recommended for external use.
- The Canopy should always be suspended by 2 people.
- In case a Canopy is attached to the grid of an existing ceiling system, it needs to be verified if the load capacity is still sufficient or whether the existing ceiling needs additional hangers to the structure.
- Do not allow excess cable to drop below the canopy when adjusting the panel to the required height. This could cause injury or panel edge damage.

Please contact our Internal Technical Sales Group for further details
0800 371 849 (UK) and 1800 409 002 (ROI).

Please contact
Internal Technical Sales
for further details.

Other countries:
www.armstrong-europe.com

More about acoustics:
www.acousticalceilings.co.uk

United Kingdom / Republic of Ireland

Armstrong World Industries Ltd.
Building Products Division
Armstrong House, 38 Market Square,
Uxbridge UB8 1NG

www.armstrong-ceilings.co.uk

www.armstrong-ceilings.ie

sales-support@armstrong.com

0800 371849 (UK) **FREEPHONE**
1800 409002 (ROI)

Fax: 00 44 (0) 1895 274287



Optima Canopy Accessories for Suspension

Accessory Kits – Applications always require more than one kit. Please review your needs carefully.

Item No.	Kit Contents
----------	--------------

BPCS5450G	Soffit Hanging Kit
------------------	--------------------

Allows for suspending individual shapes or grouping frames from soffit and bottom end adjustment of height at panel or frame level.

- (2) gripper structure anchors
- (2) gripper structure caps
- (2) 2438mm aircraft cables
- (2) bottom end cable adjusters
- (2) nuts with washers

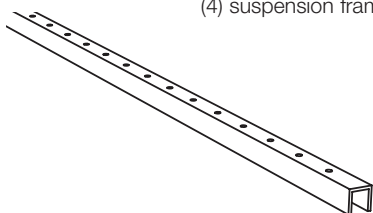


Item No.	Kit Contents
----------	--------------

BPCS5451G	Grouping Frames
------------------	-----------------

Suspension frames used to group panels together

- (4) suspension frames, 3658 mm long, black

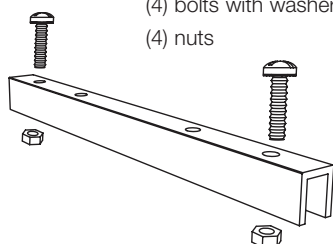


Item No.	Kit Contents
----------	--------------

BPCS5452G	Frame Splice Kit
------------------	------------------

Connects group suspension frames for longer runs (>3658 mm)

- (2) group frame connectors, 254 mm long, black
- (4) bolts with washers
- (4) nuts

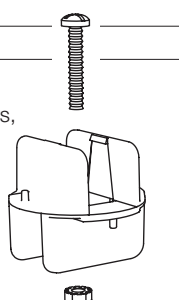


Item No.	Kit Contents
----------	--------------

BPCS5453G	Frame Alignment Kit
------------------	---------------------

For use with group suspension frames

- (4) frame alignment spacers, clear plastic
- (4) bolts
- (4) nuts with washers

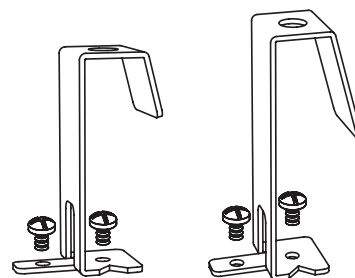


Item No.	Kit Contents
----------	--------------

BPCS5454G	Panel Hook Kit
------------------	----------------

For use with group frames, one kit per panel.

- (2) 114 mm high panel hooks, black
- (2) 89 mm high panel hooks, black
- (8) bolts

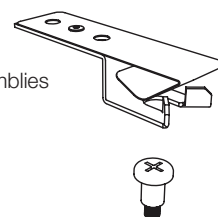


Item No.	Kit Contents
----------	--------------

BPCS5455G	Drywall Hanging Kit
------------------	---------------------

For individual panel attachment to drywall

- (2) drywall clip assemblies
- (2) shoulder bolts



Item No.	Kit Contents
----------	--------------

BP625530G	Extended Hanging Cables
------------------	-------------------------

For use with soffit hanging kit when longer cables are needed

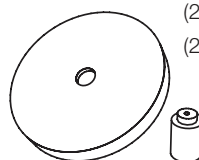
- (4) 9144 mm aircraft cables

Item No.	Kit Contents
----------	--------------

BP7006	Escutcheon Kit
---------------	----------------

Used when hanging panels below an existing ceiling

- (2) collars with set screws
- (2) 51 mm escutcheons



NOTE: If you need assistance identifying what and how many accessory kits are needed for your project, please contact our Internal Technical Sales group or visit www.armstrong-ceilings.co.uk or www.armstrong-ceilings.ie.

Installation Instructions for Optima Canopy Group Configuration

Note: Dimensions in mm may look strange, but are the exact conversion from US inches and feet into millimetres.

For example:

Distance between corner holes on the back of the Canopy is 610 mm.

The length of a Grouping Frame is 3658 mm.

Spacing between holes in the grouping frame is 51 mm.

Maximum spacing between 2 aircraft cables is 1219 mm.

Optima Canopy Group Configuration Components

Optima Canopies Grouping Frame: 3658mm U shaped section used to support Optima Canopies in group configurations with pre-drilled holes at 51 mm centres.

Frame Splice: 254 mm long splice to join lengths of Grouping Frame together.

Frame Alignment Spacer: Bracket to ensure 90° alignment of perpendicular Grouping Frame sections.

Soffit Hanging Kit: Aircraft cable with Bottom End Cable adjuster, Gripper Structure Anchor and Cap to hang Optima Canopy group configurations from the structural soffit.

Escutcheon Kit: Cover plate to conceal the Gripper Structure assembly when installing Optima Canopy group configurations below an existing ceiling.

Panel Hooks: Two sizes of hooks ('high' and 'low') that attach to the back of the Canopy and are hooked over the Grouping Frame assembly to suspend the Canopies.

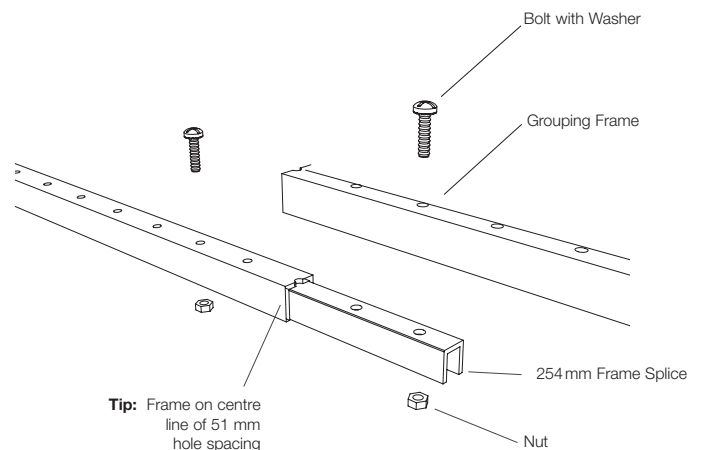
Grouping Frame Assembly

From the different Grouping Options drawings, determine the required length(s) of the Grouping Frame component, and cut them with a hacksaw.

Frames need to extend 51 mm past the point where the panel hooks will engage them, to ensure that the hooks will not slip off the frames.

For Grouping Frame lengths greater than 3658 mm, use a Frame Splice with nut, bolt and washer to join two sections of grouping frame together.

Where the cut edge of a Grouping Frame may be visible, black paint or a black marker can be used to disguise it.

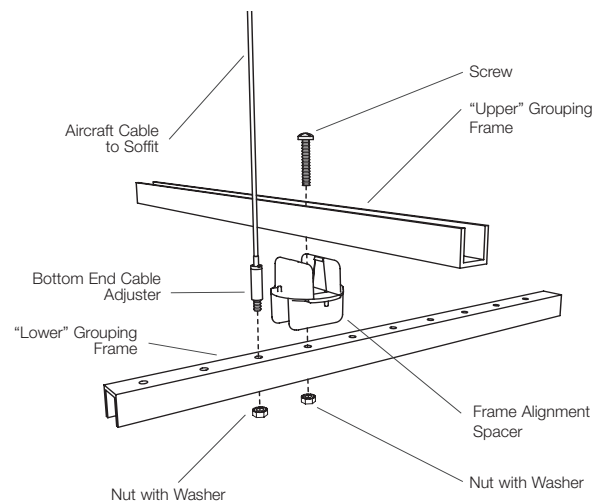


The lower Grouping Frame sections should be installed with the 'U' shape down and are the ones that will be suspended from the structure.

The upper Grouping Frame sections should be installed with the 'U' shape up and are supported by the lower sections.

Where Grouping Frames cross each other, use a Frame Alignment Spacer to establish 90° alignment with nuts and bolts to secure the connection.

Pass the bottom end of the aircraft cable through both the Gripper Structure Cap and Bottom End Adjuster. Attach the aircraft cables to the lower Grouping Frame at 1219 mm maximum centres by inserting the Bottom End Cable Adjuster into a pre-drilled hole and secure it with a nut, bolt and washer.

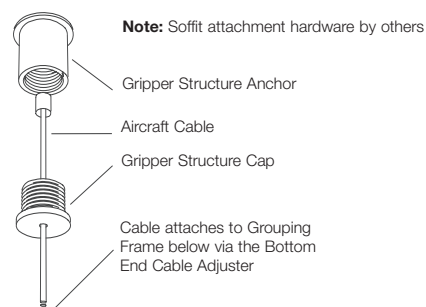


Suspending the Grouping Frame Assembly

- To the structural soffit:

Attach the Gripper Structure Anchor to the soffit using appropriate fixings (by others).

Screw the Gripper Structure Cap into the Gripper Structure Anchor.



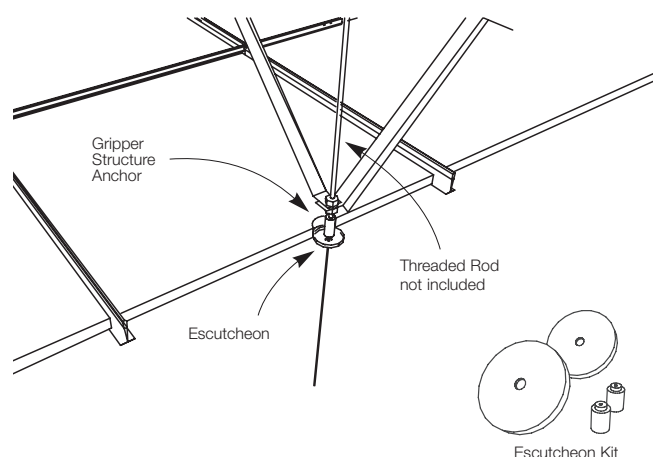
- Below an existing suspended ceiling:

The Gripper Structure Anchor must be mounted to a support at or above the existing ceiling.

Use 6 mm threaded rod attached to the structure to secure the Gripper Structure Anchor at the correct height and diagonal bracing to structure to provide support.

Use the optional accessory Escutcheon Kit to conceal the structure gripper anchor when installed above the ceiling level. The collets support the Escutcheon Cover Plate and are secured to the aircraft cable using the grub screws in the collets.

NB: The aircraft cable must be passed through the Escutcheons in stage 2 after it is passed through the Gripper Structure Cap but before it is fed through the Bottom End Adjuster.



Attaching the Panel Hooks to the Canopies

You need 4 hooks (2 'high' + 2 'low') for each panel with the exception of the 1200 x 2400 mm (nominal) panel which requires 6 hooks. The 'high' hooks attach the Canopy to the upper Grouping Frame section and the 'low' hooks to the lower Grouping Frame section.

If the Canopy shape is not symmetrical, you must determine where the high and low hooks need to be placed to meet the design layout. Hooks of the same height are always on opposite sides to each other.

The back channel of the Canopy is marked at centre and 203 mm off centre to assist with hook placement.

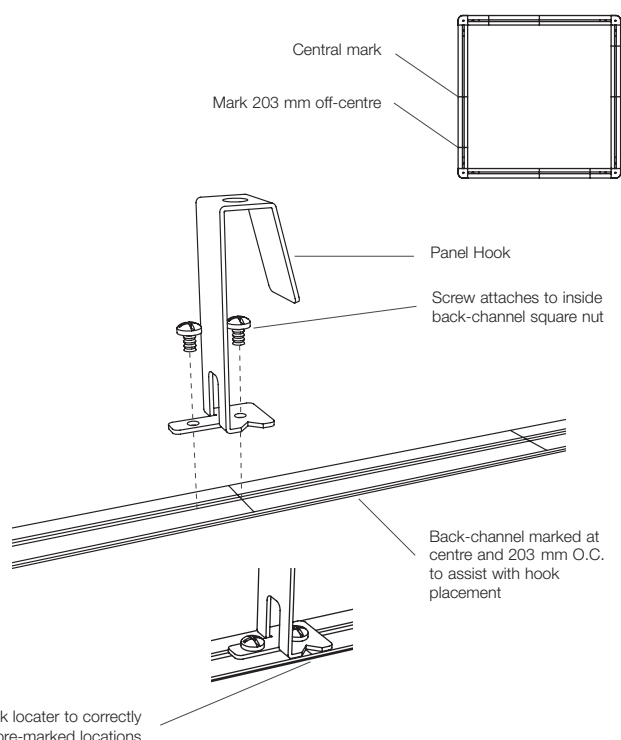
Different layouts will require Panel Hooks to be installed either centrally on all 4 sides or centrally on 2 sides and offset by 203 mm on the 2 other sides. Refer to the Grouping Options layout drawings to determine the correct location of the Panel Hooks.

There is a notch cut into the base of the hooks which should be lined up with the appropriate mark on the back channel of the Canopy.

This notch should always be facing the outside of the Canopy

The nuts for securing the hooks to the frames are already located in the back channels.

Line up those nuts and screw the Panel Hooks to the back channel of the Canopy with the Panel Hook bolts.

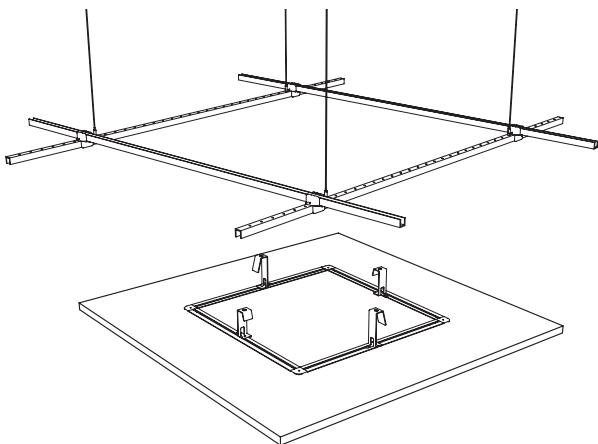


Important: The screws and nuts supplied have an American diameter and the standard European size will not fit.

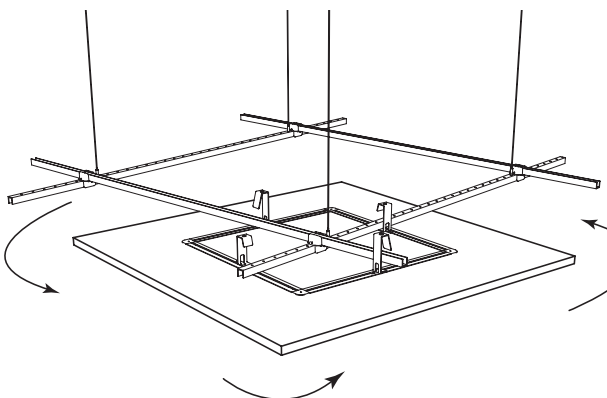
If they get lost, you can order the BPCS6350G Spare Parts Kit (with 4 shoulder bolts, 4 screws for panel hook kit, 4 nuts with washers)

Hanging the Canopies from the Grouping Frame Assembly

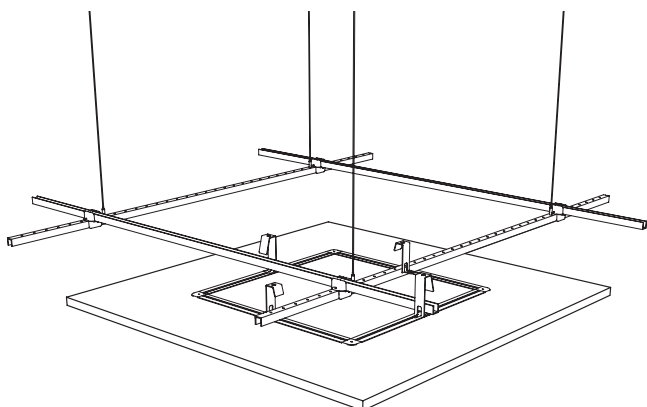
- 1) With the Canopy below the intersection of the upper and lower Grouping Frames, rotate the panel so that it is about 10° clockwise off the alignment of the Grouping Frame sections. Ensure that the 'high' Panel Hooks are next to the upper Grouping Frame and that the 'low' Panel Hooks are next to the lower Grouping Frame.



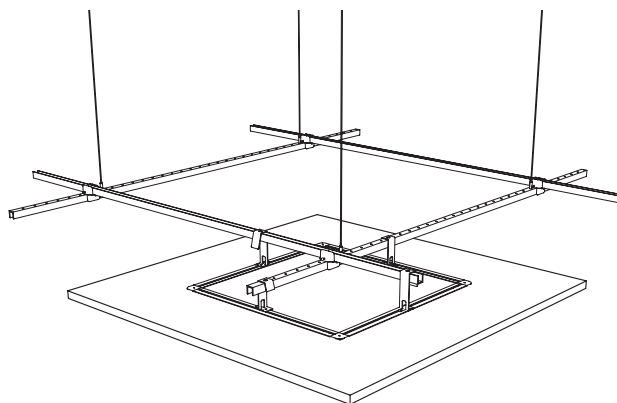
- 2) Lift the Canopy until the back channel metal extrusion touches the underside of the lower Grouping Frame. Start rotating the panel in a counter-clockwise direction, as shown in the diagram.



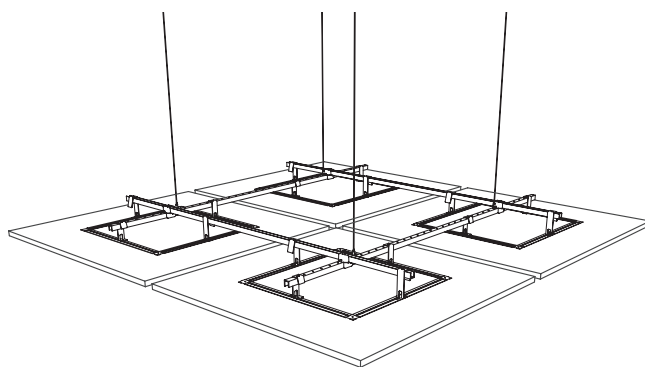
- 3) When the panel is rotated about 10°, the bottom of the hooks should engage the grouping frames.



- 4) Let the panel drop carefully into place with the four panel hooks engaging the upper and lower frames.

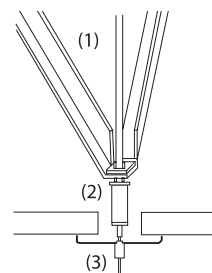


- 5) Repeat as necessary for the number of panels you have in your group configuration.

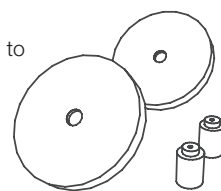


Installing shapes below an existing suspended ceiling

Canopy suspension cables should not impose any additional load or lateral force on an existing ceiling.



- 1) The Gripper Structure Anchor must be mounted to a structural support at or above the existing ceiling.
- 2) Use 6 mm threaded rod (1) attached to the structure to secure the Gripper Structure Anchor (2) at the correct height.
- 3) Use diagonal bracing to structure to support and lateral restraint.
- 4) Use the optional Escutcheon Accessory Kit (3) to conceal the Gripper Structure Anchor when installed above the ceiling level.



Escutcheon Kit

NECESSARY ITEMS FOR GROUP CONFIGURATIONS

4-Panel Square Group Layouts

To create these kinds of groups with a minimum of 51 mm spacing between shapes, you need to order:

	A1 	A2 	A3 	A4 	A5 	A6 	A7 	A8
(4) shapes:	(4) BPCS5441WHG	(4) BPCS5442WHG	(4) BPCS5440WHG	(4) BPCS5443WHG	(4) BPCS5444WHG	(4) BPCS5445WHG	(4) BPCS5446WHG	(4) BPCS5447WHG
+								
(2) BPCS5450G Soffit Hanging Kits								
(1) BPCS5451G Grouping Frames Kit		(1) BPCS5453G Frame Alignment Kit						
		(4) BPCS5454G Panel Hook Kits						

4-Panel Linear Group Layouts

To create these kinds of groups with a minimum of 51 mm spacing between shapes, you need to order:

	B1 	B2 	B3 	B4 	B5 	B6 	B7 	B8 	B9 	B10 	B11
(4) shapes:	(2) BPCS5441WHG	(4) BPCS5441WHG	(4) BPCS5442WHG	(4) BPCS5440WHG	(4) BPCS5443WHG	(4) BPCS5444WHG	(4) BPCS5445WHG	(4) BPCS5447WHG	(4) BPCS5446WHG	(2) BPCS5446WHG	(2) BPCS5445WHG
	(2) BPCS5442WHG									(2) BPCS5447WHG	(1) BPCS5446WHG
+											(1) BPCS5447WHG
(3) BPCS5450G Soffit Hanging Kits											
(2) BPCS5451G Grouping Frame Kits											
(2) BPCS5453G Frame Alignment Kit											

9-Panel Square Group Layouts

To create these kinds of groups with a minimum of 51 mm spacing between shapes, you need to order:

	C1 	C2 	C3 	C4 	C5 	C6 	C7 	C8 	C9 	C10
(9) shapes:	(5) BPCS5441WHG	(9) BPCS5440WHG	(9) BPCS5443WHG	(5) BPCS5440WHG	(9) BPCS5444WHG	(9) BPCS5445WHG	(9) BPCS5446WHG	(9) BPCS5447WHG	(6) BPCS5446WHG	(3) BPCS5445WHG
	(4) BPCS5442WHG			(4) BPCS5443WHG					(3) BPCS5447WHG	(3) BPCS5446WHG
+										(3) BPCS5447WHG
(5) BPCS5450G Soffit Hanging Kits										
(2) BPCS5451G Grouping Frame Kits										
		(3) BPCS5453G Frame Alignment Kits								
		(9) BPCS5454G Panel Hook Kits								

4-Panel Rectangular Layout

To create these kinds of groups with a minimum of 51 mm spacing between shapes, you need to order:

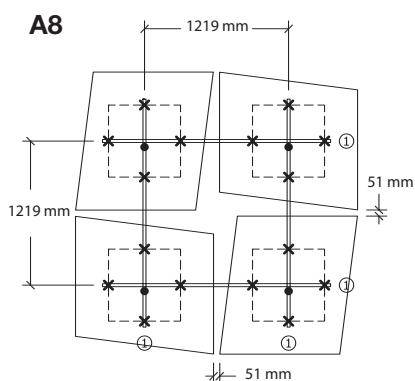
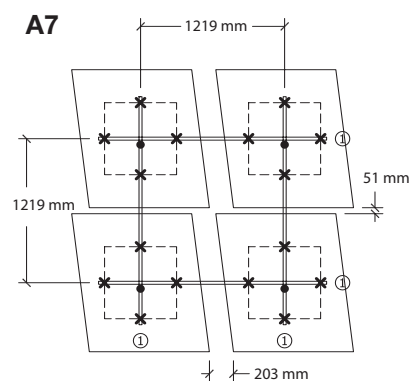
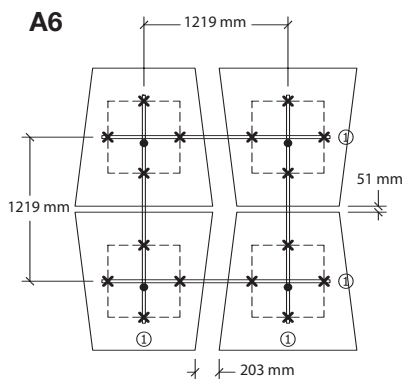
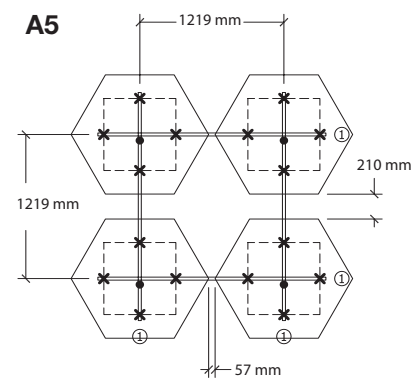
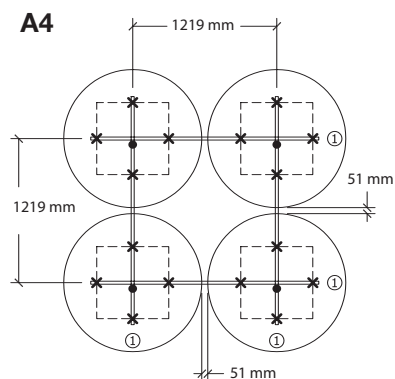
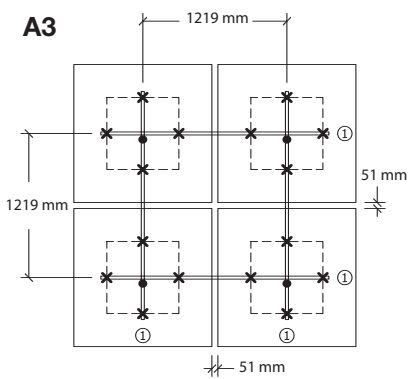
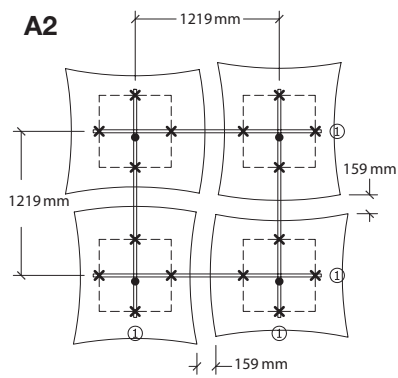
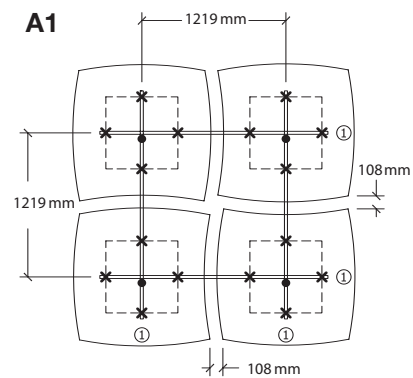
	D1
(4) shapes:	(2) BPCS5440WHG & (2) BPCS5448WHG
+	
(3) BPCS5450G Soffit Hanging Kits	
(1) BPCS5451G Grouping Frame Kit	
(1) BPCS5453G Frame Alignment Kit	
(4) BPCS5454G Panel Hook Kits	

7-Panel Circular Layout

	E1 	E2
(7) shapes:	(7) BPCS5444WHG	or (7) BPCS5443WHG
+		
(5) BPCS5450G Soffit Hanging Kits		
(2) BPCS5451G Grouping Frame Kit		
(3) BPCS5453G Frame Alignment Kit		
(7) BPCS5454G Panel Hook Kits		

NOTE: See Grouping Installation Instructions for details on typical group configurations.

If you need assistance identifying what and how many accessory kits are needed for your project, please contact our Internal Technical Sales Group or visit www.armstrong-ceilings.co.uk or www.armstrong-ceilings.ie



X = panel hook locations during installation
● = recommended hanging point location

Frame lengths:

① 1930 mm

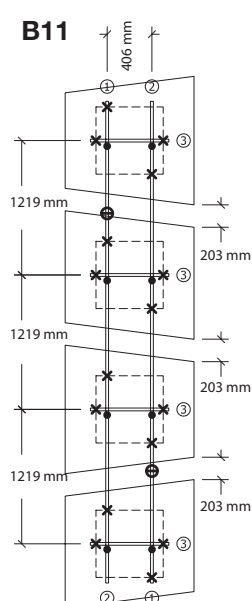
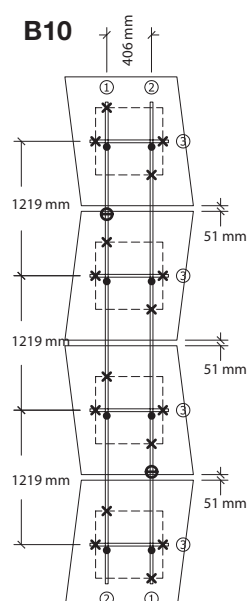
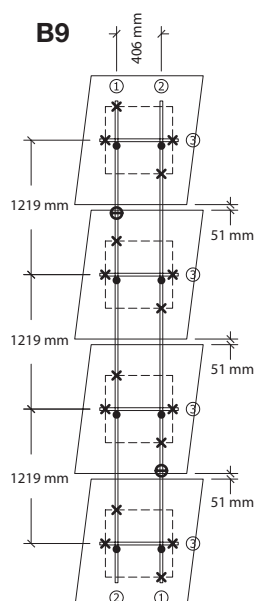
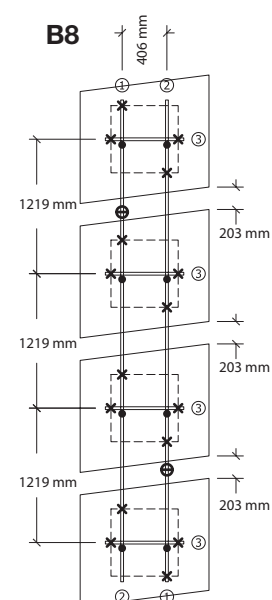
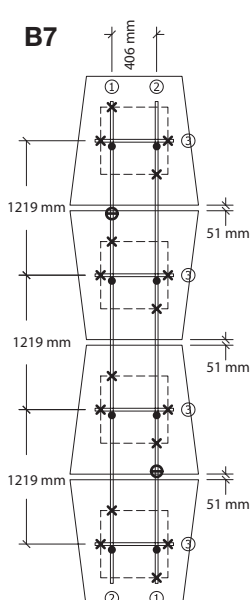
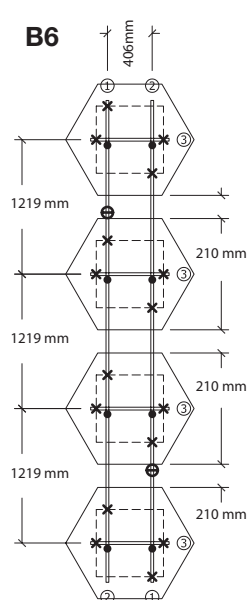
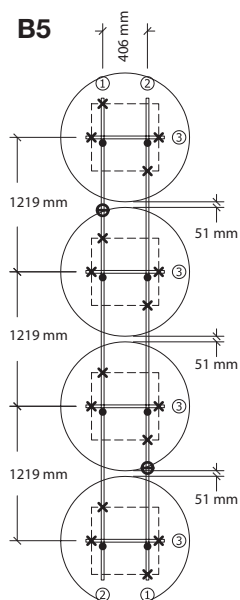
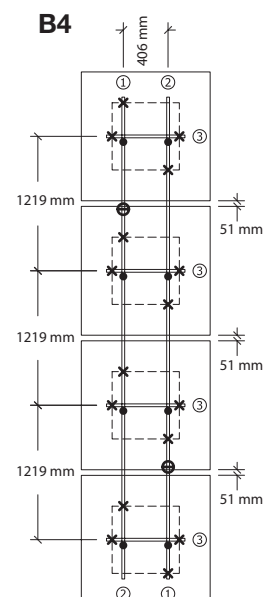
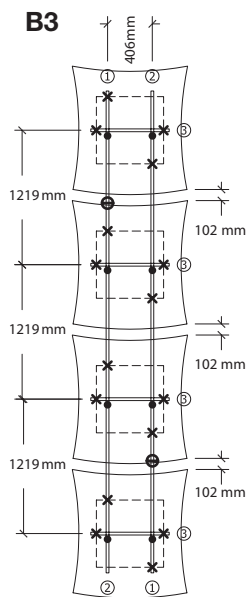
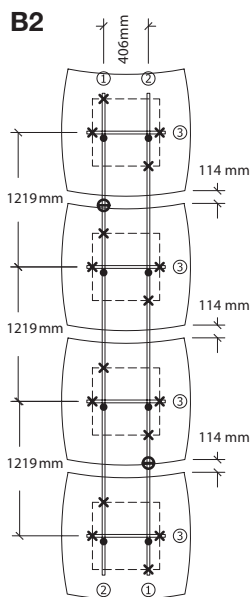
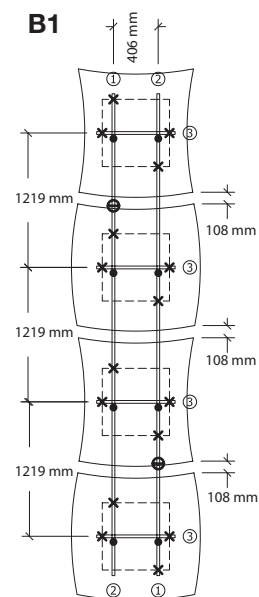
Notes:

Add or subtract 51 mm to frame length dimensions for each 51 mm increase / decrease in spacing between panels.

General notes:

Always hang grouping frame from lower frame member.

Hanging point spacing along frame not to exceed 1219 mm.



x = panel hook locations during installation
● = recommended hanging point location
θ = 254 mm frame splice

Frame lengths:

- ① 1016 mm
- ② 3353 mm
- ③ 711 mm

Notes:

Add or subtract 152 mm to overall (4369 mm) frame length dimensions for each 51 mm increase / decrease in spacing between panels.

406 mm dimension will remain unchanged regardless of visual spacing.

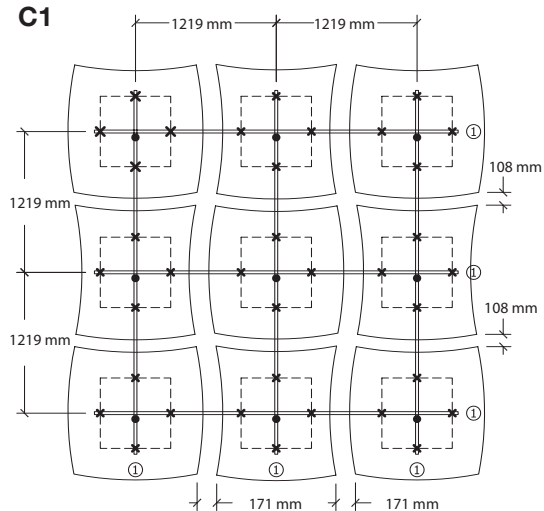
254 mm splice is required for frame lengths longer than 3658 mm.

General notes:

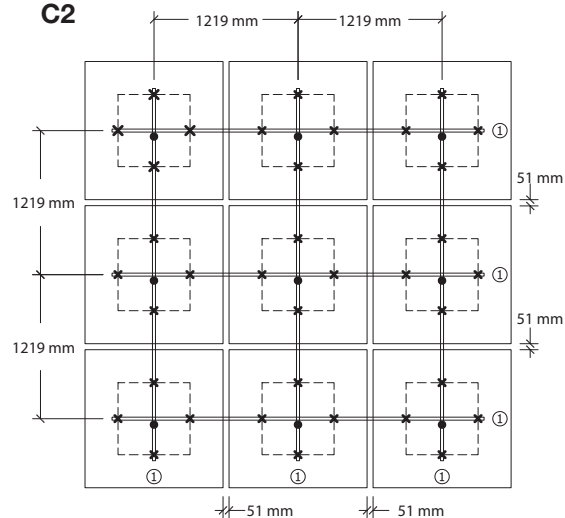
Always hang grouping frame from lower frame member.

Hanging point spacing along frame not to exceed 1219 mm.

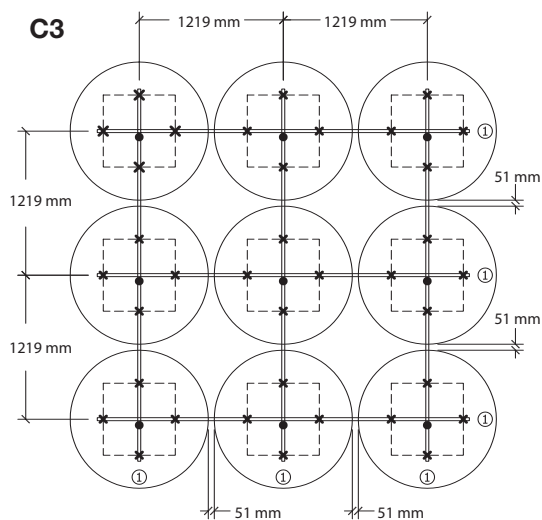
C1



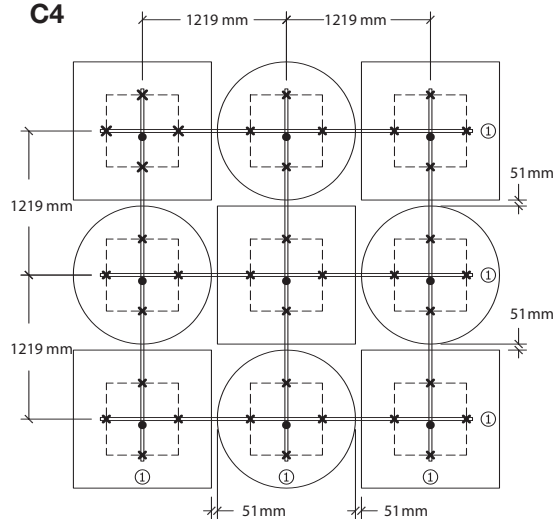
C2



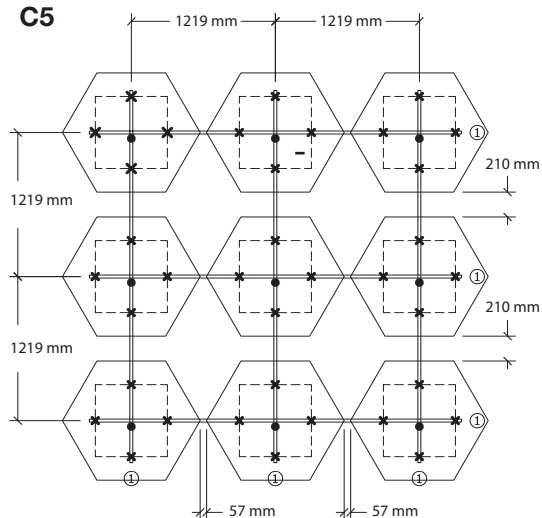
C3



C4



C5



X = panel hook locations during installation
● = recommended hanging point location

Frame lengths:

① 3150 mm

Notes:

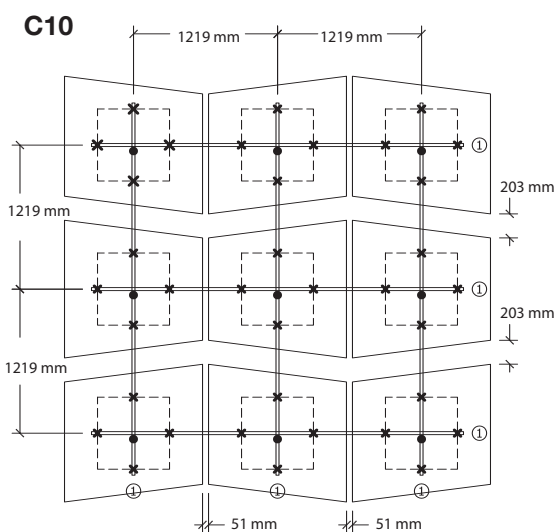
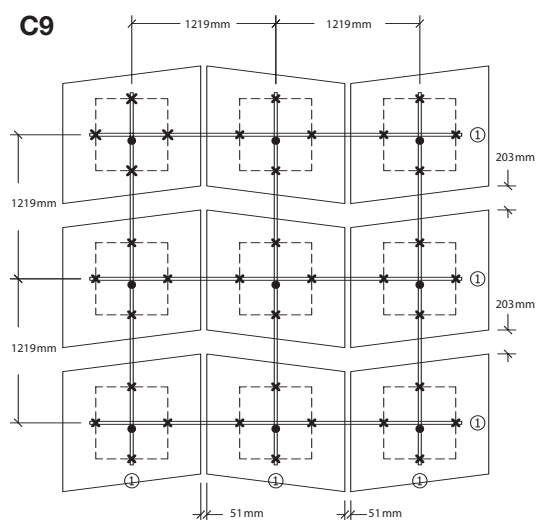
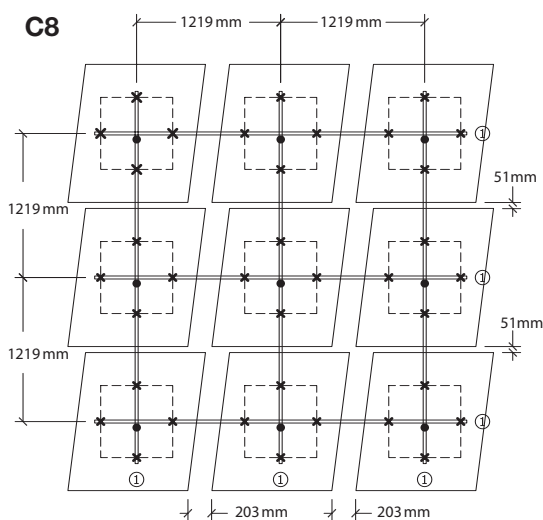
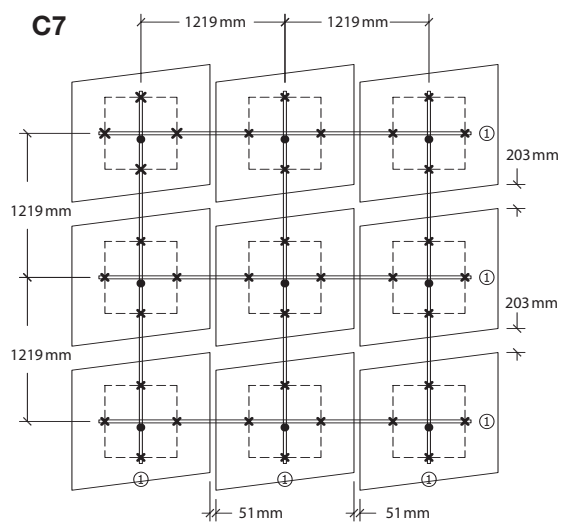
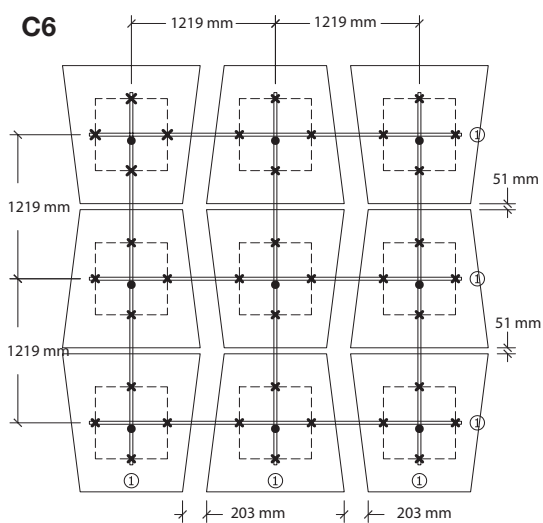
Add or subtract 102 mm to frame length dimensions for each 51 mm increase / decrease in spacing between panels.

As visual spacing increases, use 254 mm splice as needed.

General notes:

Always hang grouping frame from lower frame member.

Hanging point spacing along frame not to exceed 1219 mm.



✕ = panel hook locations during installation
● = recommended hanging point location

Frame lengths:

① 3150 mm

Notes:

Add or subtract 102 mm to frame length dimensions for each 51 mm increase / decrease in spacing between panels.

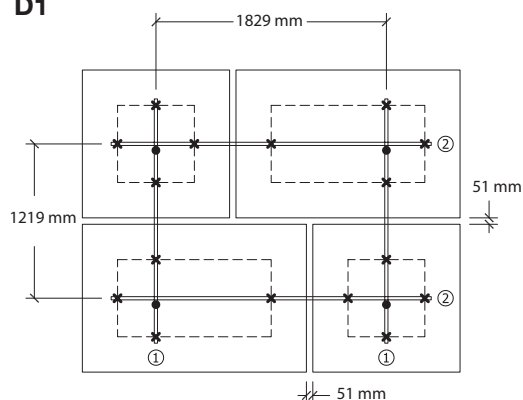
As visual spacing increases, use 254 mm splice as needed.

General notes:

Always hang grouping frame from lower frame member.

Hanging point spacing along frame not to exceed 1219 mm.

D1



X = panel hook locations during installation

● = recommended hanging point location

θ = 254 mm frame splice

Frame lengths:

① 1930 mm

② 2540 mm

Notes:

Add or subtract 51 mm to frame length dimensions for each 51 mm increase / decrease in spacing between panels.

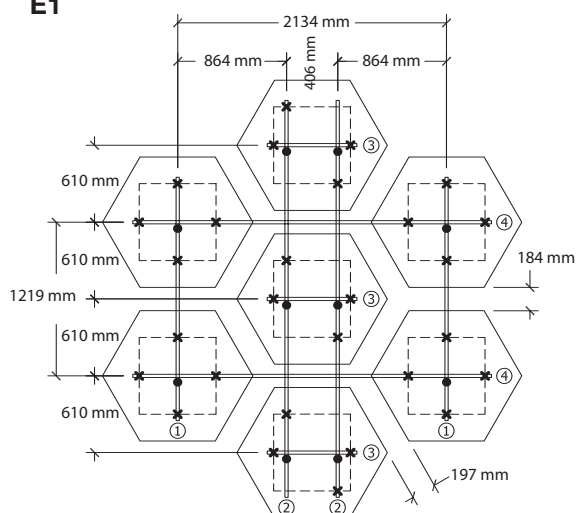
As visual spacing increases, use 254 mm splice as needed.

General notes:

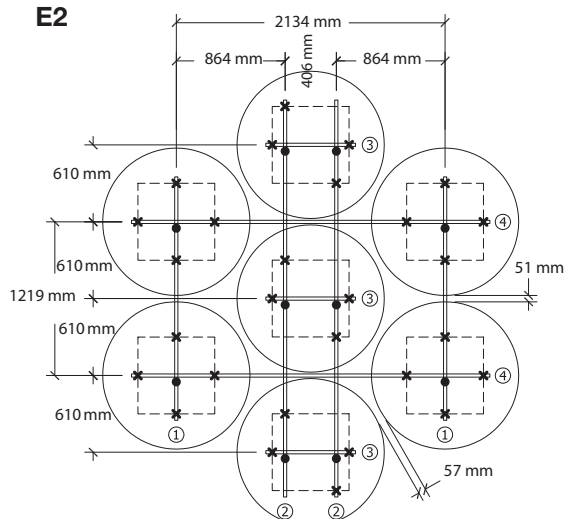
Always hang grouping frame from lower frame member.

Hanging point spacing along frame not to exceed 1219 mm.

E1



E2



X = panel hook locations during installation

● = recommended hanging point location

Frame lengths:

① 1930 mm

② 3150 mm

③ 711 mm

④ 2845 mm

Notes:

Add or subtract 152 mm to overall (4369 mm) frame length dimensions for each 51 mm increase / decrease in spacing between panels add or subtract from the frame length dimensions as follows:

frame ① 51 mm

frame ② 102 mm

frame ③ stays the same

frame ④ 51 mm

General notes:

Always hang grouping frame from lower frame member.

Hanging point spacing along frame not to exceed 1219 mm.



UK

Attach the gripper structure anchor as well as the drywall clip with a suitable fastener in accordance with EN13964.

- Optima Canopies are not recommended for external use.
- The Canopy should always be suspended by 2 people.
- In case a Canopy is attached to the grid of an existing ceiling system, it needs to be verified if the load capacity is still sufficient or if the existing ceiling needs additional hangers to the structure.
- Do not allow excess cable to drop below the canopy when adjusting the panel to the required height. This could cause injury or panel edge damage.

Please contact our Internal Technical Sales Group for further details 0800 371 849 (UK) and 1800 409 002 (ROI).

E

Fijar el casquillo y el cuclgue individual para cartón-yeso con un cuclgue que pueda soportar el peso del Canopy según la norma EN 13964.

- Optima Canopy, no debe instalarse en zonas exteriores.
- Para la instalación del Canopy hacen falta 2 personas
- En el caso de que se fije el panel Canopy, a una perfilera de un techo existente, es necesario verificar la capacidad de carga de la perfilera, o si dicha perfilera necesita reforzarse con mas cuclgues.
- Aconsejamos que corte el cable sobrante, puesto que podría dañar el panel.

Para mayor información, contacte con el servicio interno de ventas al 00 800 90 21 03 68 (llamada gratuita)

D

Die Befestigungshülse (6 mm Innendurchmesser) wie der Direktbefestigungsclip für Gipskarton ist unter Berücksichtigung der EN 13964 zu befestigen.

- Sie sind nicht für den Außenbereich zugelassen.
- Das Aufhängen des Deckensegels erfordert 2 Personen.
- Vor dem Installieren des Deckensegels unter einer abgehängten Decke die Tragfähigkeit kontrollieren, ggf. zusätzliche Abhänger ergänzen.
- Beim Aufhängen und Justieren des Deckensegels die Abhängedrähte nicht auf das Deckensegel fallen lassen. Dies könnte Verletzungen oder Produktbeschädigungen verursachen.

Weitere Informationen erhalten Sie von unserem Kundenservice. (+49) 0251 7603 210.

NL

Bevestig de bevestigingsbus evenals de clips voor gipsplaten met een doelmatig bevestigingsmiddel volgens EN13964.

- Optima Canopies zijn niet geschikt voor gebruik buiten gebouwen.
- Het ophangen van de Canopy dient met minimaal 2 personen te geschieden.
- Wanneer een Canopy direct wordt opgehangen aan het ophangstelsel of een ander plafondsysteem, dient men te controleren of het extra gewicht door het ophangstelsel kan worden gedragen.
- De ophangkabels mogen niet onder de Canopy komen tijdens of na het afstellen van de ophanghoogte van de Canopy. Dit kan ongelukken of schade aan het paneel veroorzaken.

Voor meer informatie kunt u contact opnemen met Market Service Center (+31) 076 5217733.

F

Attacher la douille de fixation ainsi que le clip de fixation directe à une fixation adéquate conformément à la norme EN 13964.

- Les Optima Canopy ne doivent pas être installés à l'extérieur des bâtiments.
- La mise en œuvre du Canopy nécessite 2 personnes.
- En cas de suspension du Canopy à l'ossature d'un plafond existant, il sera nécessaire de vérifier si la charge admissible est suffisante ou si le plafond existant a besoin de suspentes supplémentaires.
- Ne pas laisser trop de longueur de câbles pendre sur le Canopy durant le réglage du niveau, cela pourrait endommager le panneau.

Pour plus d'informations merci de contacter le Service Info Conseil au 0 800 411 36 43 (appel gratuit).

I

Fissare il manicotto di ancoraggio o i clip di fissaggio dirette per cartongesso con un fissaggio superiore in conformità alla Norma EN13964.

- Canopy non dovrà essere installato all'esterno.
- Il fissaggio di Canopy richiede 2 persone.
- Nel caso in cui il Canopy viene sospeso al di sotto di un controsoffitto esistente, è necessario verificare che il carico ammissibile sia sufficiente o se è necessario aggiungere pendini supplementari
- Durante la regolazione dell'altezza finale del Canopy, si raccomanda di tagliare i cavi in eccesso per evitare danni sul pannello.

Per ulteriori dettagli consultare l'Ufficio Tecnico Commerciale (+39) 02/66 22 76 50.

PL

Zamocuj nakładkę montażową oraz klipsy do konstrukcji g-k przy pomocy odpowiedniego mocowania, zgodnie z normą EN13964.

- Nie zaleca się stosowania płyt Canopy na zewnątrz budynków.
- Montaż płyt Canopy powinien być wykonywany przez co najmniej 2 osoby.
- W przypadku montażu płyty Canopy do konstrukcji istniejącego sufitu podwieszanego należy się upewnić, czy zdolność nośna konstrukcji jest nadal wystarczająca, czy też dla wykonania montażu należy zwiększyć liczbę wieszaków sufitu podwieszanego.
- W trakcie regulacji wysokości zawieszenia płyty należy zwrócić uwagę, aby linki do podwieszania nie zwiślały swobodnie poniżej płyty. Mogłoby to spowodować obrażenia pracujących osób lub uszkodzenia krawędzi płyty.

Dodatkowe informacje można uzyskać w Biurze Sprzedaży firmy Armstrong w Warszawie tel. 22 337 86 10.

RU

Присоедините анкерный стержень так же, как и клипсу для крепления гипсокартона, к подходящему зажимному устройству в соответствии со стандартом EN 13964.

- Панели Optima Canopies не рекомендуется применять вне помещения.
- Панели Сапору следует устанавливать 2 людям.
- Если панель Сапору монтируется на уже установленную подвесную систему, необходимо проверить, достаточна ли несущая способность подвесной системы для установки панелей Сапору или нужны дополнительные подвесы.
- Не допускайте, чтобы лишние элементы троса мешали фиксации панели на требуемой высоте. Это может привести к физическим повреждениям или повреждением кромки панели.

Пожалуйста, свяжитесь с нашей Службой Технической Поддержки по телефону (495) 956 51 00.

UK Installation Instructions for individual installations

E Instrucciones de montaje para instalaciones individuales

D Einbauanleitung für individuelle Installation

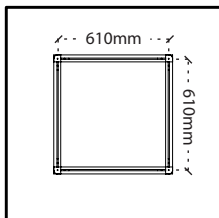
NL Installatie instructies voor individuele installaties

F Guide d'installation pour pose d'un élément

I Istruzioni di posa per un elemento Canopy

PL Instrukcje montażowe dla poszczególnych rozwiązań

RU Инструкции по нестандартной установке панелей



UK Nominal 1200 x 1200 mm Various shapes (BP5440 to BP5447)

E Nominal 1200 x 1200 mm (BP5440 hasta BP5447)

D Nominal 1200 x 1200 mm Unterschiedliche Formen (BP5440 to BP5447)

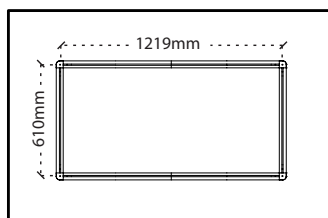
NL Nominaal 1200 x 1200 mm (BP5440 tot BP5447)

F 1200 x 1200mm (nominal) Diverses formes (BP 5440 à BP 5447)

I 1200 x 1200 mm, dimensione nominale Varie forme (dal BP5440 al BP5447)

PL Wymiar płyty 1200 x 1200 mm Różne kształty płyt (BP5440 do BP5447)

RU Номинальный размер 1200 x 1200 мм Различной формы (от BP 5440 до BP 5447)



UK Nominal 1200 x 1800 mm (BP5448)

E Nominal 1200 x 1800 mm (BP5448)

D Nominal 1200 x 1800 mm (BP5448)

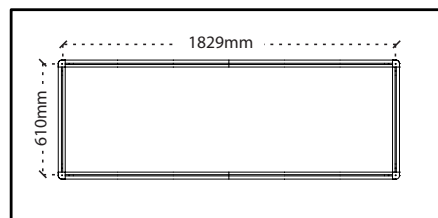
NL Nominaal 1200 x 1800 mm (BP5448)

F 1200 x 1800mm, dimensione nominale (BP5448)

I 1200 x 1800 mm, dimensione nominale (BP5448)

PL Wymiar płyty 1200 x 1800 mm (BP5448)

RU Номинальный размер 1200 x 1800мм (BP 5448)



UK Nominal 1200 x 2400 mm (BP5449)

E Nominal 1200 x 2400 mm (BP5449)

D Nominal 1200 x 2400 mm (BP5449)

NL Nominaal 1200 x 2400 mm (BP5449)

F 1200 x 2400mm, dimensione nominale (BP5449)

I 1200 x 2400 mm, dimensione nominale (BP5449)

PL Wymiar płyty 1200 x 2400 mm (BP5449)

RU Номинальный размер 1200 x 2400мм (BP 5449)

UK Nominal 1200 x 1200 mm

E Nominal 1200 x 1200mm

D Nominal 1200 x 1200mm

NL Nominaal 1200 x 1200 mm

F 1200 x 1200mm, dimensione nominale

I 1200 x 1200mm, dimensione nominale

PL Wymiar płyty 1200 x 1200mm

RU Номинальный размер 1200 x 1200мм

1) UK Direct attachment to the soffit

E Fijación directa al forjado

D Direktbefestigung an der Decke

NL Rechtstreekse bevestiging aan de bouwkundige constructie

F Fixation directe sur la structure

I Fissaggio diretto alla struttura

PL Mocowanie bezpośrednio do stropu

RU Направляйте крепление к перекрытию

UK Detach the Canopy and use the individual backing sheet to mark the attachment points

E Sacar el panel del soporte y usarlo para marcar los puntos de fijación

D Als Bohrschablone das Canopy von der Tragplatte (Verpackung) lösen, um die Ankerpunkte zu lokalisieren

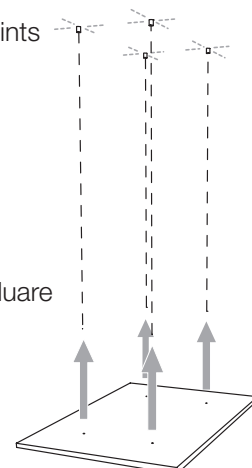
NL Maak de Canopy los en gebruik de kabelstippen bovenop de verpakking om de bevestigingspunten te bepalen

F Détacher le Canopy et utiliser la feuille de calpinage des points de fixation

I Svitare il Canopy dall'apposito supporto e utilizzare il medesimo supporto per individuare i punti di ancoraggio

PL Wyjmij płytę Canopy i użyj matrycy aby zaznaczyć punkty podwieszenia

RU Отсоедините панель Canopy и используйте отдельный лист для маркировки точек крепления



1.1) UK Individual suspension with aircraft cables to the structural soffit



E Montaje individual con cables a la estructura del forjado

D Individuelle Installation mit Abhängekabel

NL Individuele ophanging met staalkabels aan de bouwkundige constructie

F Suspension d'un élément à la structure avec câbles fixés

I Sospensione con cavi alla struttura per un Canopy

PL Podwieszenie pojedynczych płyt bezpośrednio do stropu przy pomocy linek do podwieszania

RU Специальный подвес с тросом, монтируемый к перекрытию

1

UK Attach the Four Suspension Cables

E Fijar los 4 cables de suspensión

D Befestigung der 4 Abhängekabel

NL Maak de vier ophangkabels vast

F Fixer les 4 câbles de fixation

I Fissare i 4 cavi di sospensione

PL Przymocuj 4 linki do podwieszania

RU Присоедините 4 подвесных троса

(1)



UK Gripper structure anchor (6mm internal diam.)

E Casquillo con rosca interior (agujero de 6 mm)

D Befestigungshülse (6 mm Innendurchmesser)

NL Bevestigingsbus (inv. Diameter: 6 mm)

F Douille de fixation (6mm de diamètre intérieur)

I Manicotto di ancoraggio per barra filettata, (diametro interno 6 mm)

PL Nakrętka montażowa (średnica wewnętrzna 6 mm)

RU Анкерный стержень (внутренний диаметр которого - 6 мм)

(2)



UK Suspension cable

E Cable de suspensión

D Abhängekabel

NL Ophangkabel

F Câble de suspension

I Cavi di sospensione

PL Linka do podwieszania

RU Подвесной трос

(3)



UK Gripper anchor cap

E Pieza de unión casquillo

D Kabelbefestigungsschraube

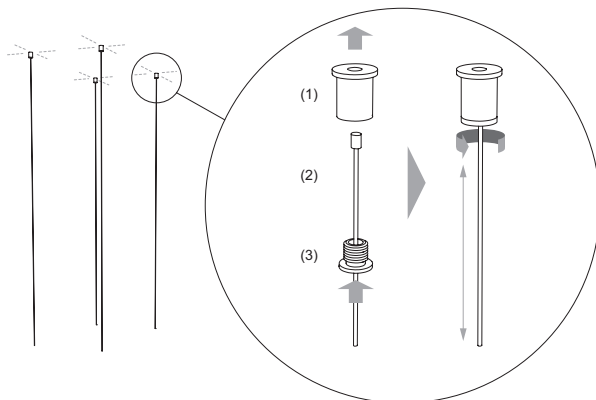
NL Bevestigingsdop

F Bouchon de douille

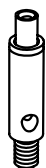
I Chiusura del manicotto di ancoraggio per barra filettata

PL Nakładka do nakrętki montażowej

RU Головка анкерного стержня



2



UK Attach bottom end cable adjuster to the Canopy on the floor

E Fijar los reguladores de longitud de cable al Canopy sobre el suelo

D Am Boden den Justierverbinder mit dem Canopy verschrauben

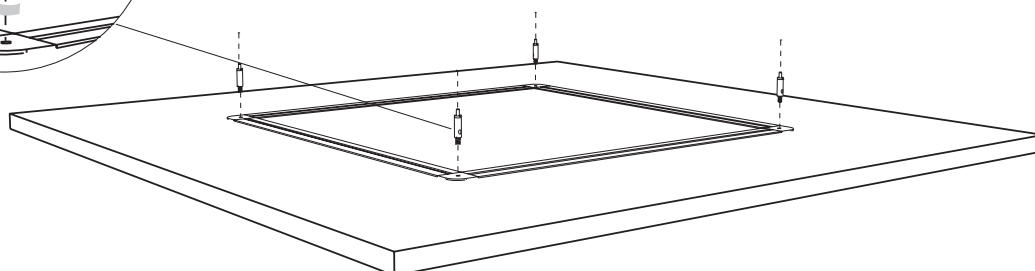
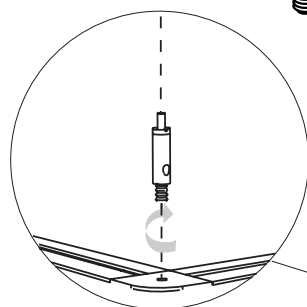
NL Bevestig de kabellengteverstellers aan de Canopy op de grond

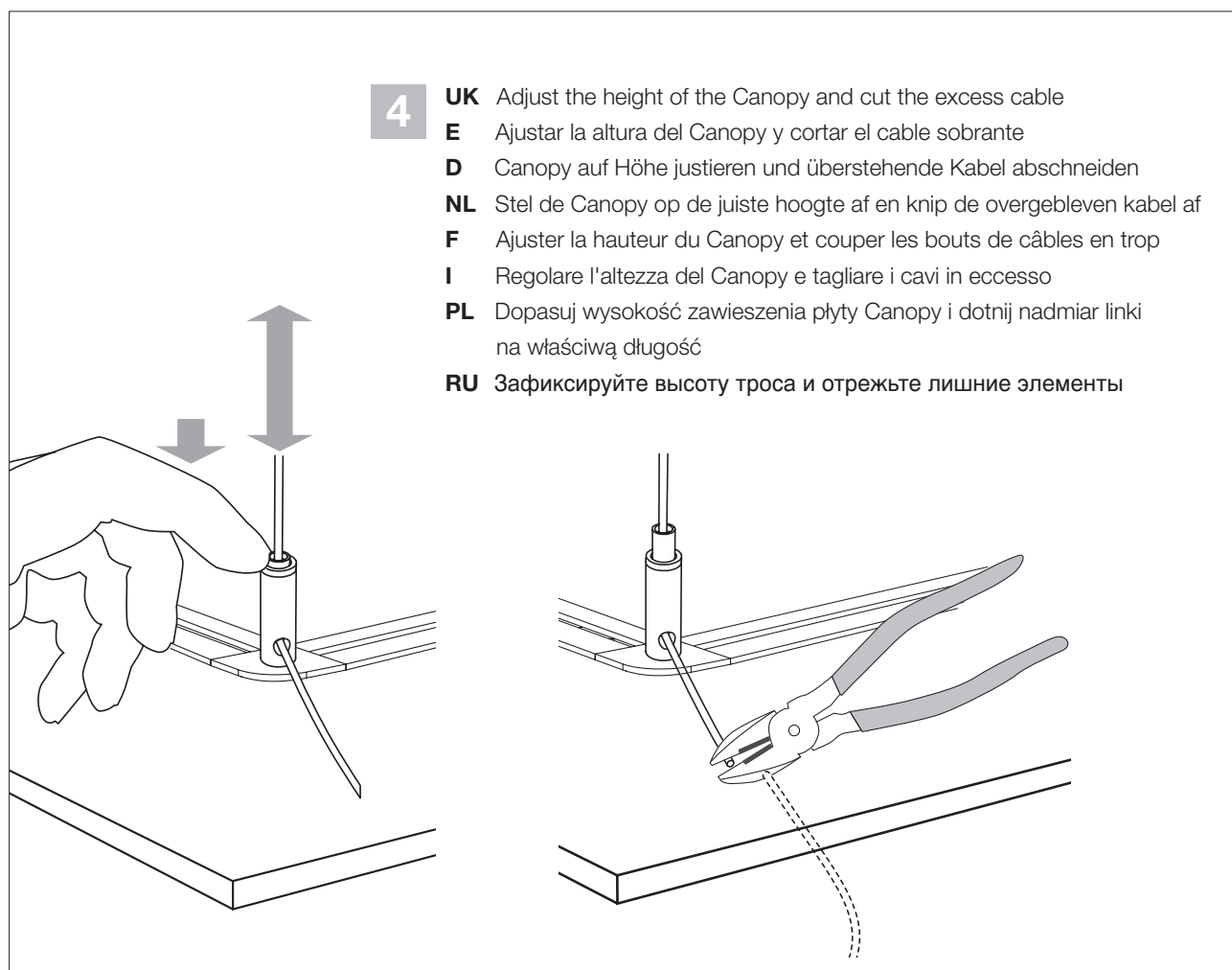
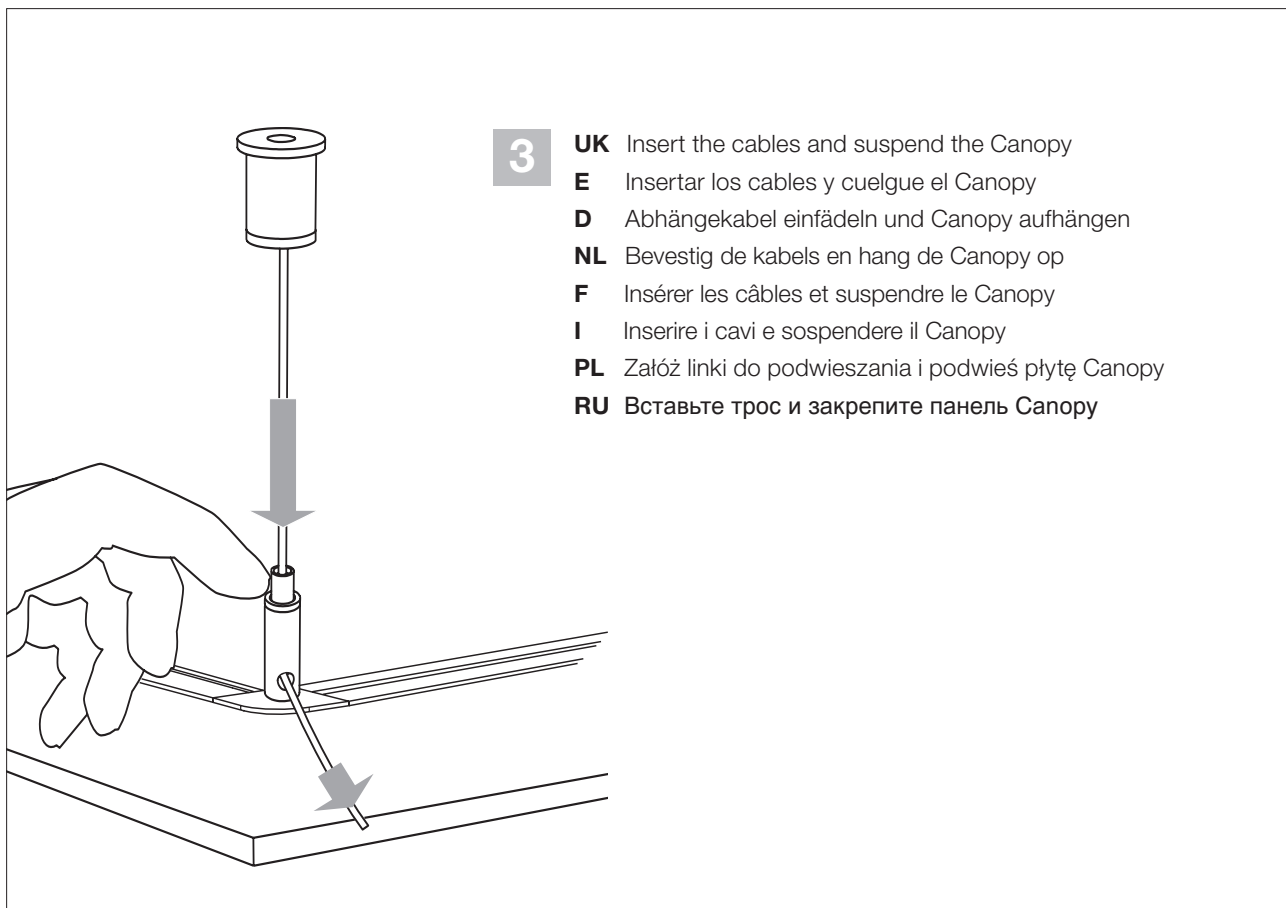
F Au sol, insérer le manchon extrémité basse du câble au Canopy

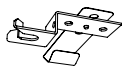
I A terra, avvitare la parte inferiore degli aggiustatori sul Canopy

PL Zamocuj regulator dolnego końca linki do podwieszania do płyty jeszcze przed jej podniesieniem do góry

RU Закрепите натяжной болт троса на панели Сапору на ровной поверхности (например, на полу)





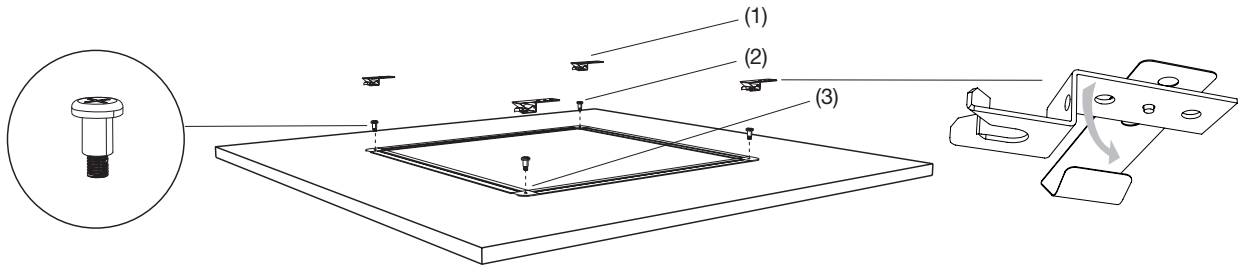


- 1.2) UK** Individual suspension with drywall clips to plasterboard soffit
- E** Cuelgue individual con clip para cartón-yeso a la placa de cartón- yeso
- D** Individuelle Installation mit Direktbefestigungsclip für Gipskarton
- NL** Individuele ophanging met clips aan een bouwkundige gipsplaatconstructie

- F** Suspension d'un élément sur une plaque de plâtre avec clips de fixation directe
- I** Sospensione di un elemento Canopy al di sotto di un soffitto in cartongesso con clip di fissaggio direkte
- PL** Podwieszenie pojedynczych płyt do sufitu z płyty gipsowo-kartonowej przy pomocy klipsów do g-k
- RU** Особый подвес с клипсой для крепления гипсокартона для монтажа к каркасу гипсокартона

1

- UK** Attach the clips (1) to the plasterboard ceiling and the shoulder bolts (2) to the corner brackets (3)
- E** Fijar los clips (1) al techo de cartón-yeso, y los tornillos (2) en cada esquina (3)
- D** Direktbefestigungsclip (1) an der Gipskarton befestigen und die Bolzen (2) in den Eckpunkten (3) montieren
- NL** Bevestig de clips (1) aan de gipsplaatconstructie en plaats de stelbouten (2) in de hoeksteunen (3) aan de achterkant van de plaat
- F** Fixer les clips (1) sur la plaque de plâtre et les boulons d'ancrage pour clip de fixation directe (2) dans les accessoires d'angles (3)
- I** Fissare le clip (1) al soffitto in cartongesso e i bulloni (2) negli appositi fori (3)
- PL** Zamocuj klipsy mocujące (1) do sufitu z płyty g-k oraz bolce (2) do klamr narożnych (3)
- RU** Установите клипсы (1) на каркасе потолка из гипсокартона и болты с заплечиком (2) на кронштейны (3)

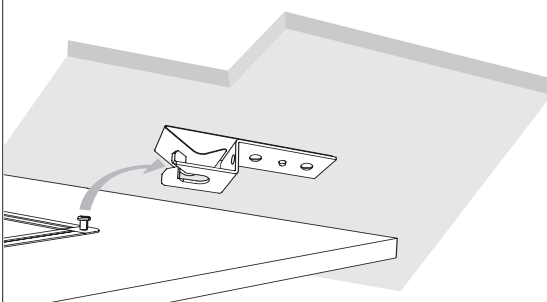


2

- UK** Swing the top part of the clip out of the way to mark the location on the ceiling. Then, swing back and fix the drywall clips with 2 appropriate fixings
- E** Girar la parte superior del clip, de forma que marquen los puntos en el techo. Cerrar los clips y fijarlos con 2 tornillos adecuados
- D** Direktbefestigungsclip öffnen und auf den Befestigungspunkte ausrichten. Danach mit 2 Schrauben montieren und anschließend den Clip schließen.
- NL** Draai het bovenste deel van de clip naar buiten zodat het bevestigingspunt op het plafond kan worden gemarkeerd en bevestig hierna de clips aan de bouwkundige constructie.
- F** Faire basculer la partie supérieure du clip pour repérer les points de fixation. Ensuite, retourner le clip de fixation directe et le fixer avec 2 vis adaptées
- I** Fare ruotare la clip per identificare i punti di ancoraggio e segnarli. Richiudere la clip per cartongesso e fissarla con 2 viti adatte
- PL** Obróć górną część klipsów aby zaznaczyć ich miejsce mocowania na suficie z płyty g-k, a następnie po powrocie do pozycji wyjściowej zamocuj klipsy do g-k 2 odpowiednimi wkrętami
- RU** Поверните верхнюю часть клипсы так, чтобы пометить место крепления панели к потолку. Затем поверните на прежнее место и установите клипсы для крепления гипсокартона при помощи 2 подходящих фиксаторов

3

- UK** Lift the Canopy to the ceiling and slide the bolts into the drywall clips
- E** Acercar el panel al techo e insertar los tornillos en los clips de cartón-yeso
- D** Canopy anheben und mit den Bolzen in die Direktbefestigungsclips schieben
- NL** Bevestig het paneel aan de clips door de stelbouten in de clips te schuiven



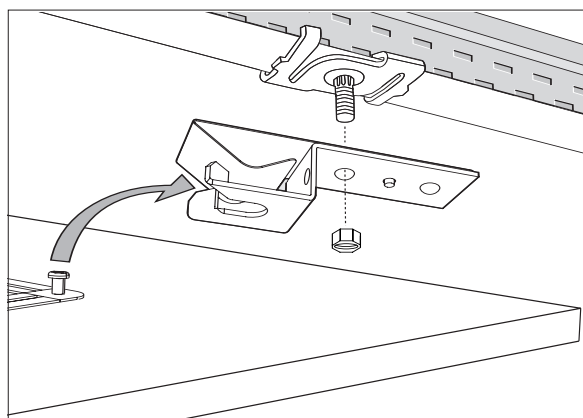
- F** Monter le Canopy sur le plafond et faire glisser le boulon d'ancrage dans le clip de fixation directe
- I** Installare il Canopy facendo scorrere i bulloni nelle apposite clip per cartongesso
- PL** Unieść płytę Canopy do płaszczyzny sufitu z płyty g-k i wsuń bolce w szczeliny mocujące klipsów do konstrukcji g-k
- RU** Поднимите панель Canopy к потолку и поместите болты в клипсы для крепления гипсокартона

- 2. UK Individual suspension to existing grid**
E Suspensión de un Canopy bajo un techo existente
D Individuelle Installation unter einer abgehängten Decke
NL Individuele ophanging aan een bestaand ophangstelsel
F Suspension d'un élément sur une ossature existante
I Sospensione di un elemento Canopy su una struttura esistente
PL Podwieszenie pojedynczych płyt do istniejącej konstrukcji sufitu modułowego
RU Особый подвес для монтажа к каркасу уже установленной подвесной системы

2.1) UK For 24mm exposed tee grid : with twist clips and drywall clips



- E Para perfilería vista de 24 mm: con twist clips y clips de cartón-yeso**
D 24mm sichtbare T-Unterkonstruktion: Drehclip + Direktbefestigungsclip
NL Voor een 24 mm zichtbaar ophangstelsel : met profielklem en gipsplaatclip
F Pour ossature apparente T24: avec des clips 1/4 de tour et des clips de fixation directe
I Per una struttura a vista da 24mm: con twist clip, bulloni e cavi di sospensione
PL Do konstrukcji widocznej T24mm: przy pomocy klipsów z elementem gwintowanym oraz klipsów do g-k
RU Для видимой 24 мм подвесной системы: со спиральными клипсами и клипсами для крепления гипсокартона



1

- UK Attach the twist clips to the existing grid**
E Fijar los twist clips a la perfilería existente
D Drehclip auf die vorhandene Unterkonstruktion montieren
NL Bevestig de profielklem aan het ophangstelsel
F Attacher le clip 1/4 de tour à l'ossature existante
I Fissare le twist clip con bulloni di ancoraggio alla struttura esistente
PL Zamocuj klipsy z elementem gwintowanym do istniejącej konstrukcji
RU Установите спиральную клипсу на фланце подвесной системы

2

- UK Attach the drywall clips to the twist clips**
E Fijar los clips de cartón-yeso a los twist clips mediante un tornillo
D Direktbefestigungsclip mit dem Drehclip verbinden
NL Bevestig de gipsplaatclip aan de profielklem
F Attacher les clips pour fixation directe aux clips 1/4 de tour
I Fissare le clip di fissaggio per cartongesso alle twist clip con bulloni
PL Zamocuj klipsy do g-k do klipsów z elementem gwintowanym
RU Установите клипсы для крепления гипсокартона на спиральные клипсы

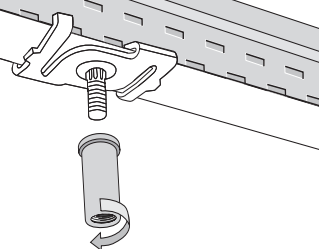
3

- UK Lift the Canopy to the ceiling and slide the bolts into the drywall clips**
E Acercar el panel al techo e insertar los tornillos en los clips de cartón-yeso
D Canopy anheben und mit den Bolzen in die Direktbefestigungsclips schieben
NL Bevestig het paneel aan de clips door de stelbouten in de clips te schuiven
F Monter le Canopy sur le plafond et faire glisser le boulon d'ancrage dans le clip de fixation directe
I Installare il Canopy facendo scorrere i bulloni nelle apposite clip per cartongesso
PL Unieść płytę Canopy do płaszczyzny sufitu modułowego i wsunąć bolce w szczeliny mocujące klipsów do konstrukcji g-k
RU Поднимите панель Canopy к потолку и поместите болты в клипсы для крепления гипсокартона

2.2) UK For T24 exposed tee grid : with twist clips and aircraft cables

- E Perfilería T24 : con twist clips y cables de suspensión**
D 24mm sichtbare T-Unterkonstruktion: Drehclip + Abhängekabel
NL Voor een 24 mm zichtbaar ophangstelsel: met profielklem en ophangkabels
F Pour ossature T24: avec des boulons d'ancrage et des câbles
I Per una struttura a vista da 24mm: con twist clip, bulloni e cavi di sospensione
PL Do konstrukcji widocznej T24: przy pomocy klipsów z elementem gwintowanym oraz linek do podwieszania
RU Для видимой 24мм подвесной системы: со спиральными клипсами и тросами

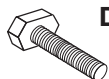
- 1** **UK** Attach the twist clips to the existing grid
E Fijar los twist clips en la perfilera existente
D Drehclip auf die vorhandene Unterkonstruktion montieren
NL Bevestig de profielklem aan het ophangstelsel
F Attacher le boulon d'ancrage à l'ossature existante
I Fissare le twist clip con bulloni di ancoraggio alla struttura esistente
PL Zamocuj klipsy z elementem gwintowanym do istniejącej konstrukcji
RU Установите спиральную клипсу на фланце подвесной системы



- 2** **UK** Attach the aircraft cable to the twist clip and please follow the appropriate installation instructions outlined on page 2 & 3
E Fijar los cables de suspensión a los twist clips, y seguir las instrucciones de instalación de las páginas 2 & 3
D Abhängkabel mit dem Drehclip verbinden, danach der Anleitung auf Seite 2 & 3 folgen
NL Bevestig de ophangkabel aan de profielklem en volg voor verdere installatie de instructieregels op pagina 2 & 3
F Attacher le câble au boulon d'ancrage et veuillez suivre le guide d'installation de la page 2 et 3
I Fissare i cavi di sospensione alle twist clip seguendo le istruzioni di posa delle pagine 2 e 3
PL Zamocuj linki do podwieszania do klipsów z elementem gwintowanym, a następnie postępuj zgodnie z odpowiednimi instrukcjami montażowymi przedstawionymi na stronach 2 i 3
RU Прикрепите трос к спиральной клипсе и, пожалуйста, следуйте инструкции по установке, приведенной на стр. 2 и 3

2.3) UK For Silhouette 6mm: with self blocking hammer head bolts (by others)

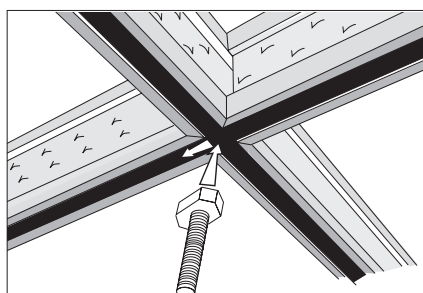
- E** Para perfilera Silhouette de 6 mm, con tornillos autoblocantes
D Silhouette 6mm Designunterkonstruktion: Hammerkopfschraube (nicht im Lieferprogramm)
NL Voor Silhouette 6 mm: met ongelijkvormige bouten
F Pour de l'ossature Silhouette 6mm: avec des boulons



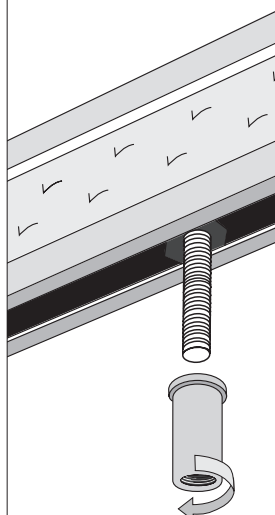
I Per una struttura Silhouette 6mm: con bulloni a testa di massello autobloccanti (disponibile sul mercato)

- PL Do konstrukcji Silhouette 6mm: przy pomocy bolców samoblokujących w szczelinie profilu (w ofercie innych producentów)**

RU Для подвесной системы Silhouette 6 мм: с блокирующей головкой болта в виде молотка



- 1** **UK** Install the bolt into the Silhouette grid
E Insertar el tornillo en la perfilera silhouette
D Hammerkopfschraube mit der Silhouette Schiene verbinden
NL Bevestig de bout in het Silhouette ophangstelsel
F Installer le boulon dans l'ossature silhouette
I Inserire il bullone nella struttura Silhouette
PL Zamocuj bolce do konstrukcji Silhouette
RU Закрепите болт на фланце подвесной системы Silhouette



- 2** **UK** Attach the aircraft cable to the bolt and please follow the appropriate installation instructions outlined on page 2 & 3
E Fijar el cable de suspensión al tornillo y seguir las instrucciones de instalación detalladas en las páginas 2 & 3
D Abhängkabel mit der Hammerkopfschraube verbinden, danach der Anleitung auf Seite 2 & 3 folgen
NL Bevestig de ophangkabel aan de bout en volg voor verdere installatie de instructieregels op pagina 2 & 3
F Attacher le câble au boulon et veuillez suivre le guide d'installation de la page 2 et 3
I Fissare i cavi di sospensione ai bulloni seguendo le istruzioni di posa delle pagine 2 e 3
PL Zamocuj linki do podwieszania do bolców, a następnie postępuj zgodnie z odpowiednimi instrukcjami montażowymi przedstawionymi na stronach 2 i 3
RU Прикрепите трос к болту и, пожалуйста, следуйте инструкции по установке, приведенной на стр. 2 и 3

UK Nominal 1200 x 1800 mm*

E Medida Nominal 1200 x 1800mm*

D Nominal 1200 x 1800mm*

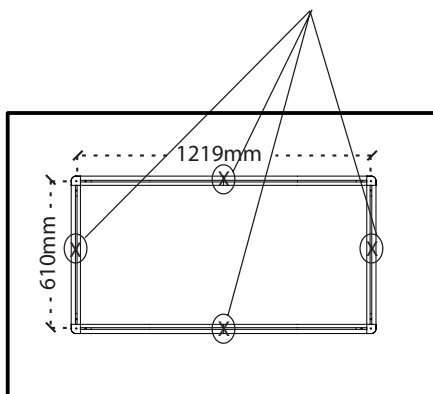
NL Nominaal 1200 x 1800 mm

F 1200 x 1800mm, dimension nominale

I 1200 x 1800mm*, dimensioni nominali

PL Wymiar płyty 1200 x 1800mm*

RU Номинальный размер 1200x1800 мм



UK Attach the Canopy at the mid-points of each side (not in the corner)

E Fijar el Canopy a los puntos medios de cada lado, no en las esquinas

D Canopy Befestigung in der Mitte der Seiten (nicht in den Eckpunkten)

NL Maak de Canopy vast in het midden van iedere zijde (niet in de hoeken)

F Fixer le Canopy au milieu de chaque côté (pas dans les angles)

I Sospendere il Canopy al centro di ogni lato (non negli angoli)

PL Zamocuj płytę Canopy pośrodku każdego z boków (nie na rogach)

RU Крепите панель Сапору на срединных точках обеих сторон (не на углах)

UK Nominal 1200 x 2400 mm*

E Medida Nominal 1200 x 2400mm*

D Nominal 1200 x 2400mm*

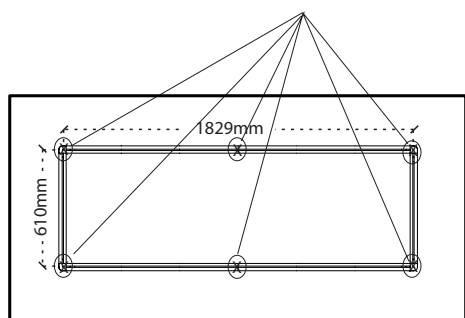
NL Nominaal 1200 x 2400 mm

F 1200 x 2400mm, dimension nominale

I 1200 x 2400mm*, dimensioni nominali

PL Wymiar płyty 1200 x 2400mm*

RU Номинальный размер 1200 x 2400 мм



UK Attach the Canopy at the four corners and at the mid-points of both long sides

E Fijar el Canopy a las 4 esquinas y a los puntos medios de los lados largos.

D Canopy Befestigung in den vier Eckpunkten und in der Mitte der Längsseiten

NL Maak de Canopy vast in de vier hoeken en in het midden van de beide lange zijde.

F Fixer le Canopy sur les 4 angles et au milieu des 2 longueurs

I Sospendere il Canopy nei 4 angoli e al centro di entrambi i lati lunghi

PL Zamocuj płytę Canopy na każdym z czterech rogów oraz pośrodku obu dłuższych boków

RU Крепите панель Сапору на 4 углах и на срединных точках обеих сторон

***UK** For these modules, the same suspension systems can be used as for the 1200 x 1200 module. Please follow the same installation instructions

***E** Para estos módulos, se pueden usar los mismos sistemas de suspensión que para los módulos de 1200*1200. Seguir las mismas instrucciones de instalación

***D** Die Befestigung für diese Abmessung erfolgt analog zu dem System 1200 x1200. Folgen Sie bitte der Anleitung

***NL** Voor deze module. Hetzelfde ophangstelsel kan worden gebruikt voor de 1200 x 1200 module Volg hiervoor dezelfde installatie instructies

***F** Pour ces modules, les mêmes systèmes de suspension choisis pour le module 1200 x1200mm peuvent être utilisés. Veuillez suivre les mêmes instructions de pose

***I** Per questi moduli, utilizzare lo stesso sistema di sospensione del 1200 x 1200mm. Si prega di seguire le stesse istruzioni di posa

***PL** W przypadku płyt o większych wymiarach można wykorzystać te same systemy podwieszania jak w przypadku płyty 1200 x 1200. Prosimy postępować zgodnie z instrukcjami montażowymi odpowiadającymi temu wymiarowi płyty

***RU** Для данных модулей может использоваться такая же подвесная система, как и для панелей размером 1200 x1200 мм. Пожалуйста, следуйте той же системе установки панелей