

Deco Acoustic Island
/THU

THU's **Deco Acoustic Island** range is a system of suspended elements offering high acoustic performance and a decorative function, formed by assembling machined components made from PET felt boards.

Through various configurations in the choice of finish colours, sizes and shapes, they offer creative options for decorating spaces that require sound absorption, whilst maintaining flexibility and ease of assembly, without any need for complex work or the installation of support structures.

The Islands are manufactured using PET (polyethylene terephthalate) boards, which are formed from a mixture of plastic fibres that are mostly recycled, which are compacted and heat-treated.

The main characteristics of the recycled PET felt panels are high acoustic performance, a textile-like appearance and low specific weight, forming a stable, functional, decorative, durable, easy to clean and high-performing system.

Whether used as a suspended element within a ceiling system or as a standalone unit, their main feature is their ability to provide sound attenuation whilst serving as a decorative element that creates a pleasant atmosphere, without interfering with building services (lighting, electricity, air conditioning, etc.).

Kingspan | THU ceiling solutions

THU/ **Deco Acoustic Island**

DOCUMENT INFORMATION

DOCUMENT VERSION
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LATEST VERSION

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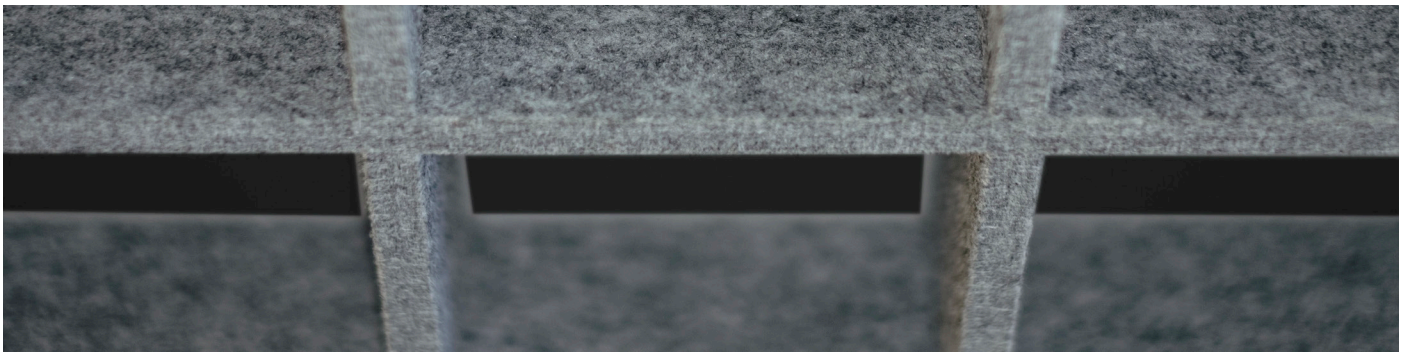
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INFO/ Deco Acoustic Island

GENERAL DESCRIPTION

THU technical ceiling composed of suspended acoustic elements that are formed by cutting and assembling sheets of recycled PET. The recommended hanging fixtures are manufactured by Gripple.

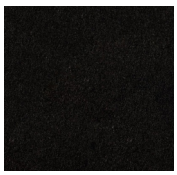


Item	Material	Length/ Thickness	Size (mm)	System	Regulations (raw materials)
Female Gripple Angel + 2 m cable with ED6 decorative end cap	steel	2 m cable	-	Island	VOC emissions, EN 16516 react. to fire, EN 13501-1 acoustic absorption ISO 354 susp. ceilings EN 13964
Quad 120x120	PET felt	9 mm	1200x1200x120		
Quad 120x240	PET felt	9 mm	1200x2400x120		
Oval 120x120	PET felt	9 mm	1200x1200x240		
Oval 120x240	PET felt	9 mm	1200x2400x240		
Flat Circle	PET felt	24 mm	Ø1190x24		
Flat Oval	PET felt	24 mm	1190x2390x24		
Flat Quad	PET felt	24 mm	1190x1190x24		
Flat Hex	PET felt	24 mm	1030x1190x24		

CUSTOMISATION

standard colours

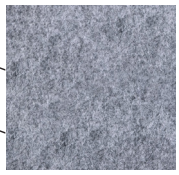
Black BL1



Charcoal AN1



Sky Grey GR2



Beige BE1



special colours

(on request)



special colours

(on request)



batten colour

Black RAL9005



Please enquire regarding other colours, patterns, special designs and embossing.

RAW MATERIALS AND ACCESSORIES

Characteristics of the raw materials.

Our Island system is composed of acoustic panels made primarily from recycled PET (polyethylene terephthalate), a raw material that is processed from plastic waste (mainly food packaging). This waste undergoes a thermo-mechanical process to produce fibres which, when compacted and bonded together, form the final panels. It offers excellent fire resistance and moisture resistance, as well as resistance to the growth of microorganisms and outstanding sound absorption.

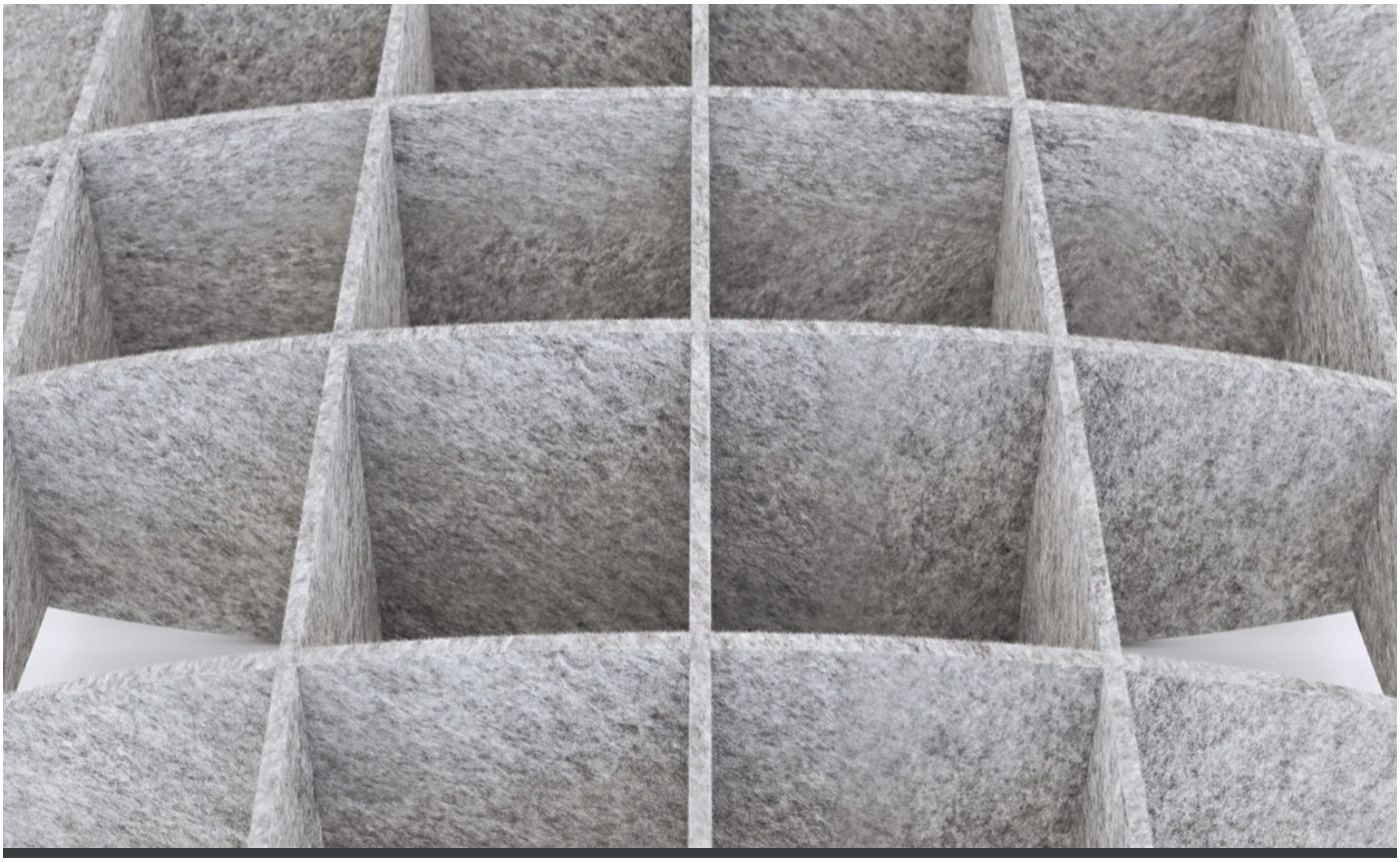
PERFORMANCE

Key characteristics	Performance Features	Harmonised Technical Specifications
Reaction to Fire	B-s2,d0 (raw material)*	UNE-EN 13501-1:2018
Sound absorption (raw material)	α_w = 0.25 (direct-to-support) α_w = 0.60 (50 mm plenum)	ISO 354:2004 ISO 11654:1998
Emissions (volatile organic compounds – VOCs)	Gold (raw material)	UNE-EN 16516:2017+A1:2020

*B-s1,d0 (raw material) available on request; please enquire about available colours.

RECYCLED MATERIAL

Up to 25% metallic material, at least 60% felt material.



PROPERTIES

Reaction to Fire tests at AITEX (UNE-EN 13501-1:2018) felt raw material.
Test ref. 24AN0371 and raw material manufacturer's certificate. Euroclass B,s2-do. A combustible product with a very limited contribution to fire, with a medium smoke emission quantity and rate, and which does not produce flaming droplets or particles. For further details, refer to the raw material technical data sheet.

Volatile organic compound emission testing at EUROFIRMS (EN 16516:2017+A1:2020).
Raw material testing and manufacturer's certificate 392-2023-00571401. Successfully meets the requirements of the "Indoor Air Comfort GOLD" and "M1" labels.

Declaration of Performance for Gripple Angel Female M6 (EN 13964-2014).

Information taken from documents (Declaration of Performance and technical data sheet) provided by the manufacturer of the "Gripple Angel Female M6" hanging fixture.

- Safe working load 15 kg (safety factor 5:1).

Acoustic Absorption Tests at Applus (UNE-EN ISO 354: 2004)
Tests ref. 22-3204656 and ref. 22-3204654 measuring sound absorption in a reverberation chamber for the raw material: 9 mm thick PET-type panels, either direct-to-support or with a 50 mm air cavity (plenum).

Spacing (mm)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	Weighted SAC α_w	CLASS
9 mm panel (direct-to-support)	0.00	0.05	0.15	0.35	0.70	0.95	0.25	E
9 mm panel (50 mm cavity)	0.10	0.30	0.60	0.95	1.00	0.95	0.60	C

To achieve higher levels of acoustic absorption, it is recommended to use absorbent materials of greater thickness and/or density, placed on the upper side of the plenum or directly on top of the Deco Acoustic system. Increasing the plenum depth, where possible, will also improve acoustic absorption. Any additional materials must be within the load-bearing capacity of the ceiling installation.



INSTALLATION/ **Deco Acoustic Island**

ASSEMBLY PROCESS

The various raw material panels are assembled using half-lap joints. It will be supplied fully assembled, with the hangers already fitted, leaving only the cables to be threaded through the end caps. Should dismantling be necessary, reassembly must be carried out on a clean, stable and flat surface. The various parts must be fitted tightly together at the joints, ensuring that each joint is secure before proceeding to assemble the next part. Assemble all parts in one direction (lengthwise) with one part in the opposite direction (crosswise) first, and then continue with the remaining parts in the other direction.

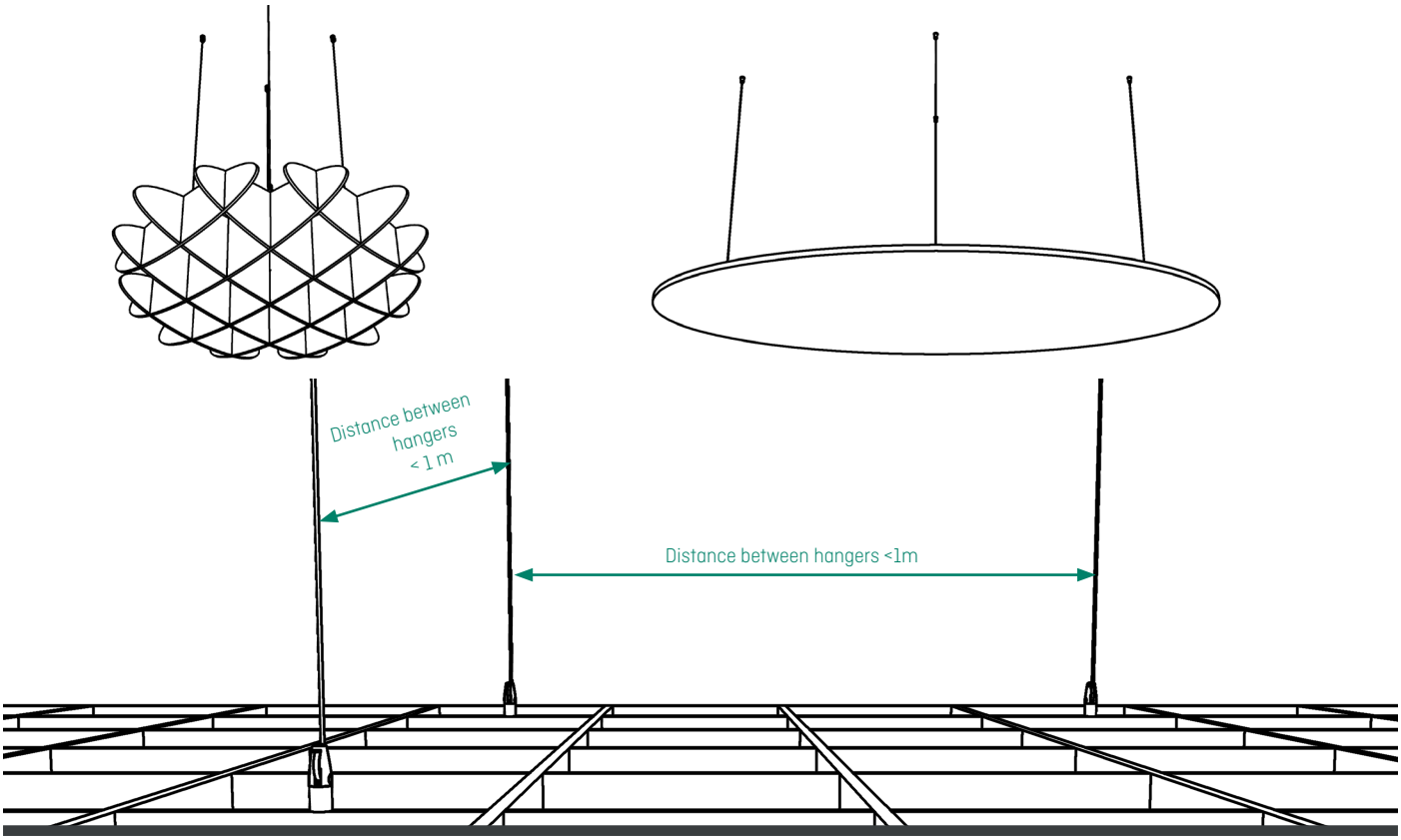
The hangers must be spaced no more than 1 m apart. Depending on the model, the minimum requirements for the number of hangers per unit must be met. Bear in mind that changing the position of the hangers will leave permanent threading holes in the material, meaning that deformation of the panel may be visible at the new location.

Oval Island 1200x1200 mm -> Weight 2.521 kg/unit -> Minimum 3 hangers. 4 units recommended.
Quad Island 1200x1200 mm -> Weight 3.192 kg/unit -> Minimum 3 hangers. 4 units recommended.
Oval Island 1200x2400 mm -> Weight 5.048 kg/unit -> Minimum 6 hangers. 8 units recommended.
Quad Island 1200x2400 mm -> Weight 4.788 kg/unit -> Minimum 6 hangers. 8 units recommended.
Flat Circle-Quad-Hex Island -> Weight 4.88-6.21-4.03 kg/unit -> Minimum 3 hangers.
Flat Oval Island -> Weight 9.81 kg/unit -> Minimum 4 hangers.

*Note: Weight without hangers (Gripple Angel hangers + 2 m cable + decorative end cap -> 240 g)

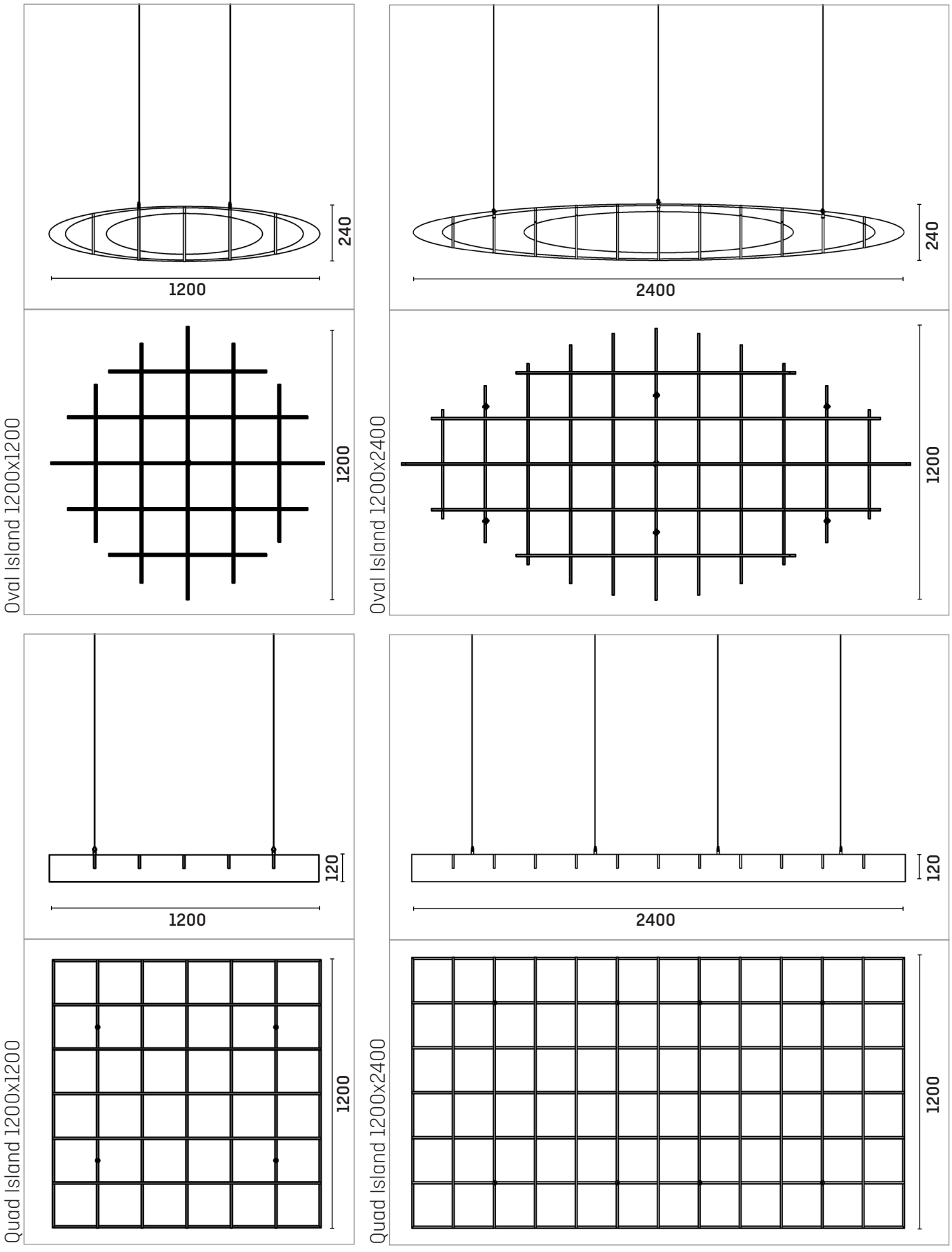
For Island models, the hangers should preferably be inserted at the joint between sections facing in different directions; otherwise, they should be inserted into the section that forms the lower support.

In Flat Island models, the hangers should be inserted into the marked positions on one of the sides.



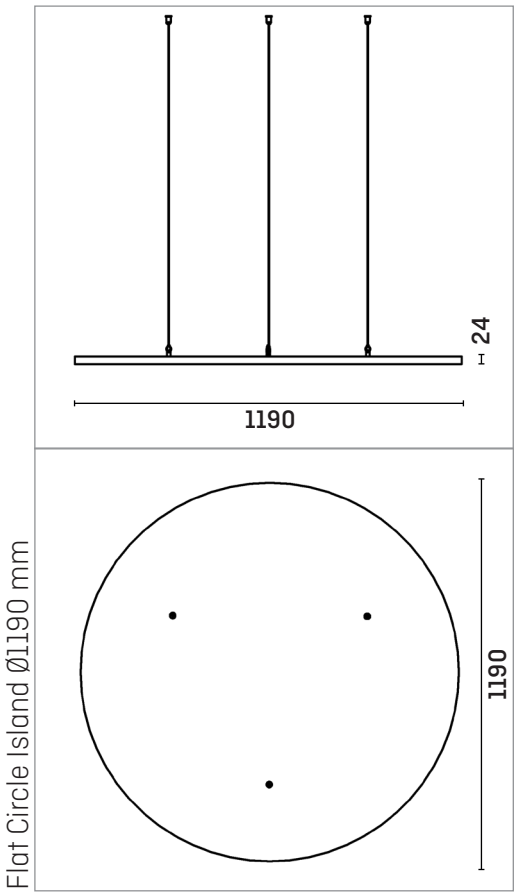
GEOMETRY

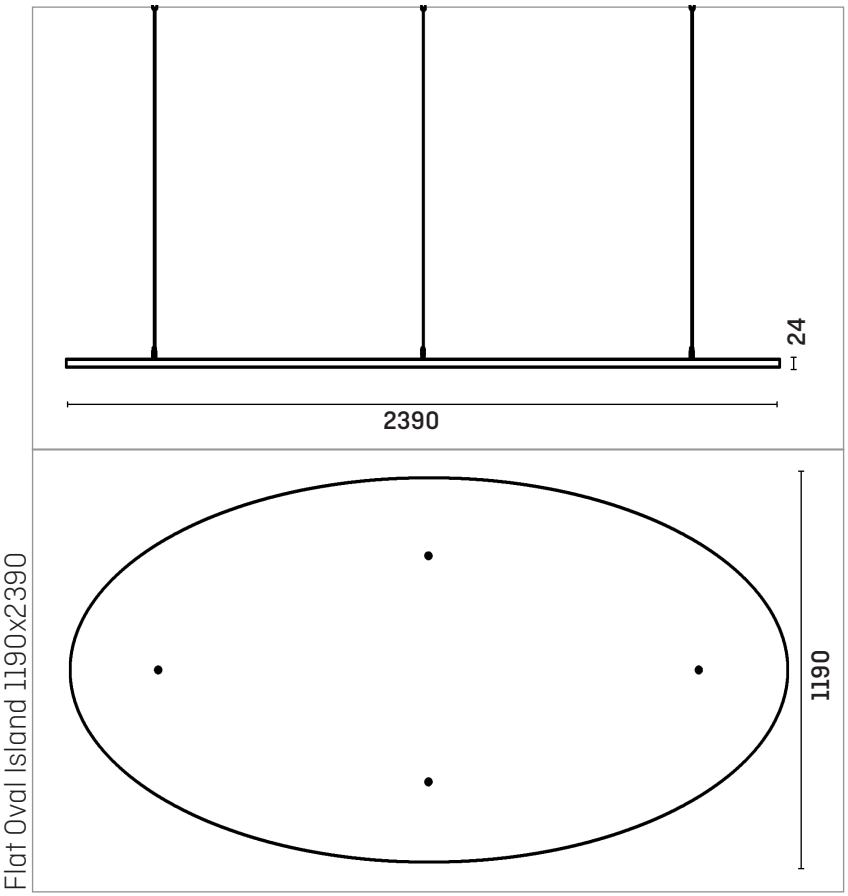
Oval and Quad Island elements. Please enquire for other dimensions and configurations.

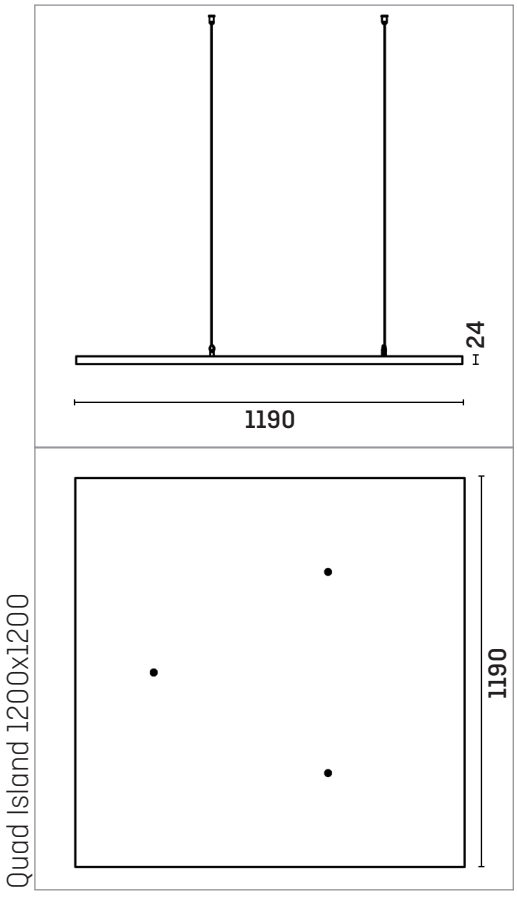


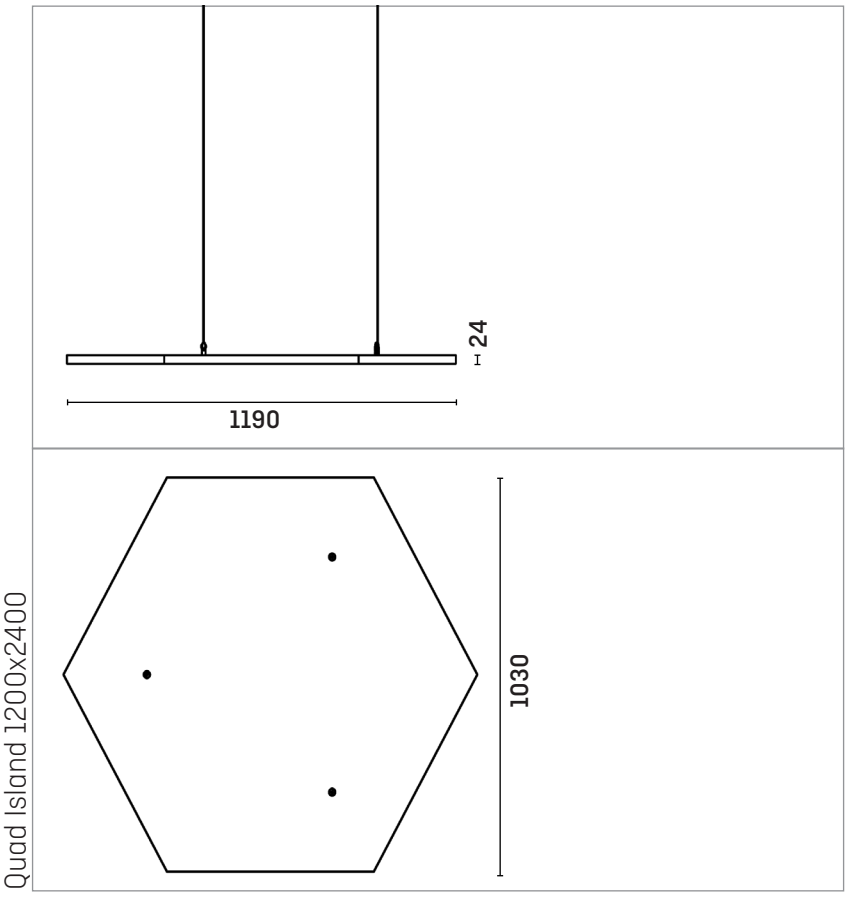
GEOMETRY

Flat Circle, Oval, Quad and Hex Island elements. Please enquire for other dimensions and configurations.





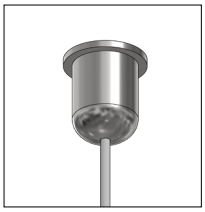




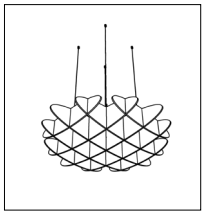
ISLAND MATERIALS



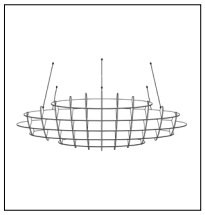
1) Gripple Angel Female M6 hanger + lag screw
Gripple hanging fixture with quick height adjustment via cable.
Fixed to the Island element using a lag screw.
The height is adjusted by pulling to raise and applying manual pressure to the plastic ring to lower. Standard 2 m cable.



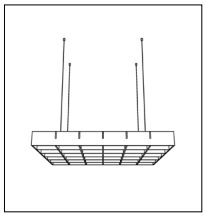
2) Decorative cable end fitting
Two-part hanging fixture on a support. The upper end fitting allows the unit to be secured to the support, depending on the type of support. The lower part supports the cable and is inserted into the upper part via a threaded connection.



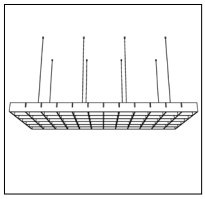
3) Oval Island 1200x1200 mm
Decorative acoustic island with an oval open-grid design measuring 1200x1200 mm horizontally and 240 mm high. The pieces are formed with an ellipsoidal profile.



4) Oval Island 1200x2400 mm
Decorative acoustic island with an oval open-grid design measuring 1200x2400 mm horizontally and 240 mm high. The pieces are formed with an ellipsoidal profile.



5) Quad Island 1200x1200mm
Decorative acoustic island with a square closed-grid design measuring 1200x1200 mm horizontally and 120 mm high. Rectangular end pieces with mitred corners.

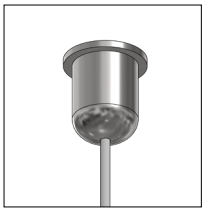


6) Quad Island 1200x2400 mm
Decorative acoustic island with a rectangular closed-grid design measuring 1200x2400 mm horizontally and 120 mm high. Rectangular end pieces with mitred corners.

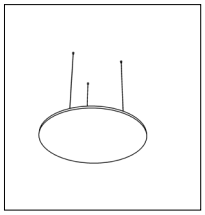
FLAT ISLAND MATERIALS



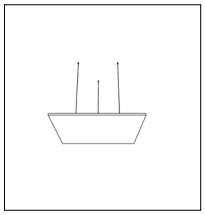
1) Gripple Angel Female M6 hanger + lag screw
Gripple hanging fixture with quick height adjustment via cable.
Fixed to the Island element using a lag screw.
The height is adjusted by pulling to raise and applying manual pressure to the plastic ring to lower. Standard 2 m cable.



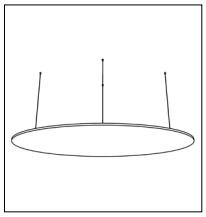
2) Decorative cable end fitting
Two-part hanging fixture on a support. The upper end fitting allows the unit to be secured to the support, depending on the type of support. The lower part supports the cable and is inserted into the upper part via a threaded connection.



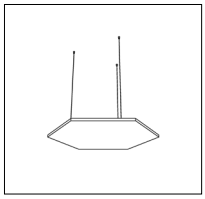
3) Flat Circle Island Ø1190 mm
Flat, circular decorative acoustic panel, 1190 mm in diameter and 24 mm thick.



4) Flat Quad Island 1190x1190 mm
Flat, square decorative acoustic panel, 1190 mm wide and 24 mm thick.



5) Flat Oval Island 1190x2390 mm
Flat, oval decorative acoustic panel with a minor diameter of 1190 mm, a major diameter of 2390 mm and a thickness of 24 mm.



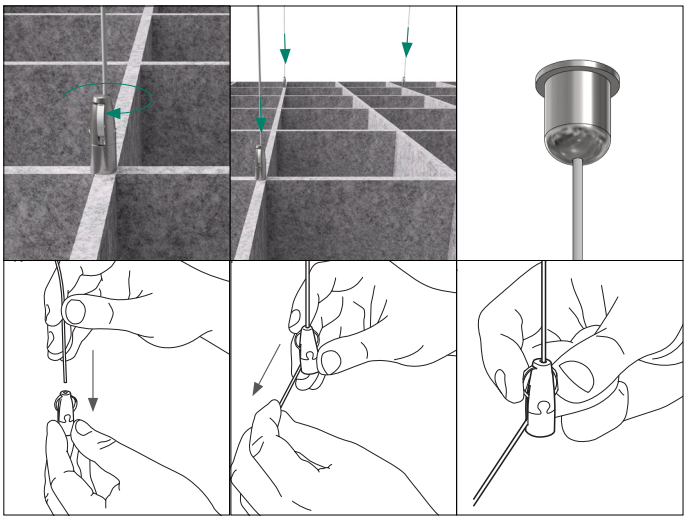
6) Flat Hex Island Ø1190 mm
Flat, hexagonal decorative acoustic panel with a diameter of 1190 mm, width narrower of 1030 mm and a thickness of 24 mm.

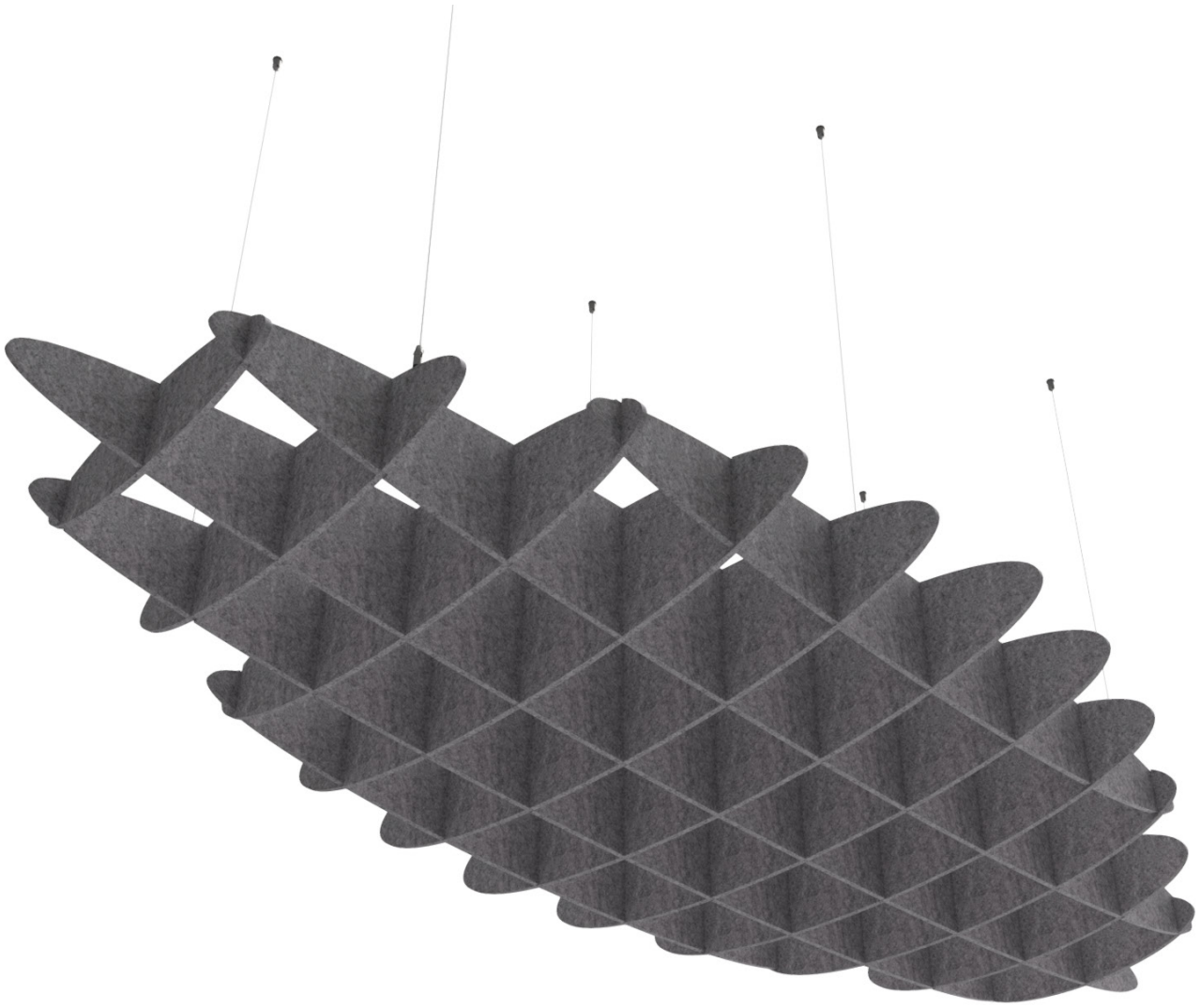
HANGER INSTALLATION AND LEVELLING PROCESS

5) Installing the Island element

After unpacking the unit, screw the Gripple Angel hangers – with their M6 threaded rods – into the suspension side and into the wood thread on the edge of the Screen felt panel. Use a suitable number of hangers for each model, as described in the installation instructions above. It must be secured to the upper support using a suitable anchor and screw, and the cable that will be fed through the Gripple Angel hanger must be suspended using the decorative end cap. This suspends the Island element, ensuring it is level with the cable run and that the height of the different cables is even at each hanger.

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PREREQUISITES FOR INSTALLATION

- THU ceiling products must be stored indoors and must not come into direct contact with water. They must never be stored outdoors or partially outdoors.
- THU Profile removable ceilings are installed during the last phase of construction, once all enclosures and building services are in position.
- The area where the ceiling is to be installed must be clean and free from obstacles that might hinder the installation process.
- It is recommended that products NOT be kept in storage for more than 3 months.

STORAGE AND INSTALLATION

- The components of any THU system must be stored in dry, well-ventilated areas, away from heat sources and protected from direct sunlight and rain.
- The ceiling should be installed in ambient conditions of temperature (15-25°C) and humidity (35-70%).
- Once installed, each element must be free of all traces of packaging, protective film, surface markings or handling marks.

MAINTENANCE AND CLEANING

- Only clean with soapy water (neutral soap) and rinse.
- Do NOT use solvents or degreasers.
- Use a soft cloth to wipe any excess water from the surfaces, taking care not to damage the surface of the product.

SUPPLY

- Pack of 1 Oval Island, 1200x1200 mm.
- Pack of 1 Oval Island, 1200x2400 mm.
- Pack of 1 Quad Island, 1200x1200 mm.
- Pack of 1 Quad Island, 1200x2400 mm.

THU'S RESPONSIBILITY

- THU guarantees the quality of the products supplied and shall accept product returns when these have defects or do not arrive to the customer in good conditions for reasons attributable to THU. However, complaints regarding the delivery must be made within eight (8) calendar days following the receipt of the material either at the customer's warehouses or the site indicated for that purpose. After this time, the material is considered to have been checked and accepted by the customer. Under no circumstances shall THU be liable for damage to the material the customer may cause due to erroneous or improper use. THU will also not be held liable or bear any costs arising from damage caused by a permanent modification to any system components (cutting, drilling, painting, etc.).
- Orders for materials manufactured with specific characteristics requested by the customer may not be refunded, amended or cancelled without cause attributable to THU.

WASTE MANAGEMENT

- To ensure the correct management of waste, contact an authorised waste management company, use the on-site storage points indicated by the site management and/or place the waste in the public waste containers provided for cardboard, plastic, glass and general waste.

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