# Ecophon Solo™ Rectangle

Solo Rectangle is a free hanging unit, offering high level design possibilities. Three different suspension systems offer opportunities to create several layers and angles. Suitable when the room volume should be maintained or when it's not possible to install a wall-to-wall ceiling.
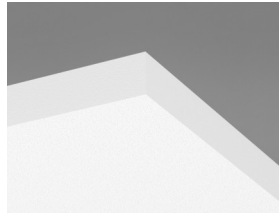

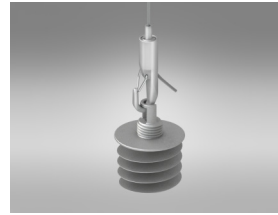M30 Architecten, Oisterwijk, Netherlands

SYSTEM RANGE

Size, mm	1800x1200	2400x600	2400x1200	3000x1200
Special Fixing	•	•	•	•
Thickness (THK)	40	40	40	40
Inst. Diagr.	M404, M506	M405	M406, M407, M506	M408
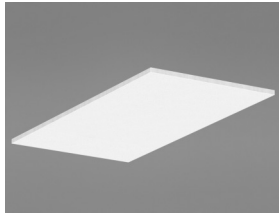
Solo Rectangle

Solo panel

Suspension with Connect Adjustable wire hanger and Connect Absorber anchor

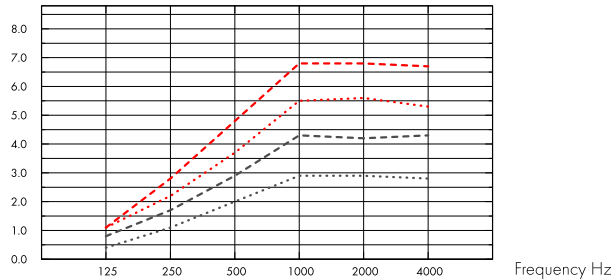Suspension with Connect Absorber bracket and Connect Absorber anchor

Acoustic

The values in the diagram refer to a single unit. If the units are arranged in a cluster with distances between units less than 0,5 meters, the Aeq per unit will be slightly reduced.

Sound Absorption:
Test results according to EN ISO 354.

A_{eq}, Equivalent absorption area per unit (m² sabin)

···· Solo Rectangle 2400x1200, 1000 mm o.d.s.

--- Solo Rectangle 1800x1200, 1000 mm o.d.s.

···· Solo Rectangle 2400x600, 1000 mm o.d.s.

--- Solo Rectangle 3000x1200, 1000 mm o.d.s.

o.d.s = overall depth of system

	THK mm	o.d.s. mm	A_{eq}, Equivalent absorption area per unit (m² sabin)					
			125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
2400x1200	40	200	1.3	2.8	3.5	4.1	4.1	3.9
2400x1200	40	400	1.2	2.4	3.3	4.7	4.9	4.7
2400x1200	40	1000	1.1	2.2	3.7	5.5	5.6	5.3
1800x1200	40	200	0.6	2.0	2.9	3.4	3.3	3.1
1800x1200	40	400	0.8	1.9	2.6	3.7	3.7	3.6
1800x1200	40	1000	0.8	1.7	2.9	4.3	4.2	4.3
2400x600	40	200	0.5	1.4	2.0	2.4	2.3	2.3
2400x600	40	400	0.4	1.2	1.8	2.6	2.7	2.7
2400x600	40	1000	0.4	1.1	2.0	2.9	2.9	2.8
3000x1200	40	200	1.1	3.3	4.4	5.1	5.1	5.0
3000x1200	40	400	1.2	3.0	4.2	5.8	5.8	5.7
3000x1200	40	1000	1.1	2.8	4.8	6.8	6.8	6.7

Indoor Air Quality

Certificate / Label	Plant	
Eurofins Indoor Air Comfort®	IAC	IAC Gold
French VOC	A	A+
Finnish M1	•	•

Environmental Footprint

	kg CO_2 equiv/m²
Solo Rectangle	9,12
Solo Rectangle/Plant	5,32

Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804

Circularity

Minimum post-consumer recycled content	57%
Recyclability	Fully recyclable

Fire safety

Country		Class
Europe	EN 13501-1	A2-s1,d0

The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.

Humidity Resistance

Product	
Standard	Class C, RH 95% and 30°C
Plant	Class A, RH 70% and 25°C

According to EN 13964:2014

Visual appearance

White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.

Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.

Accessibility

The tiles are demountable.

Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.

System weight

Approximately 6,5-17,5 kg.

Mechanical properties

The tile can take both point loads and distributed loads. See Functional demands, Mechanical properties at www.ecophon.com.

CE

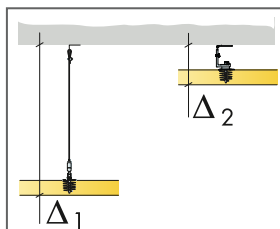Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

Alt 1

Alt 2
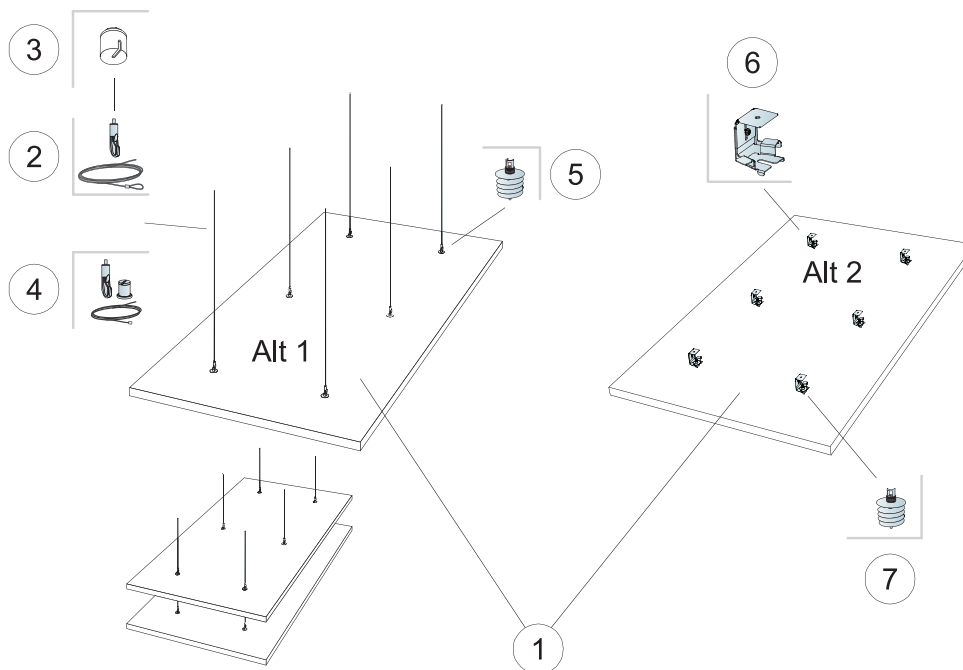
QUANTITY SPECIFICATION (EXCL. WASTAGE)

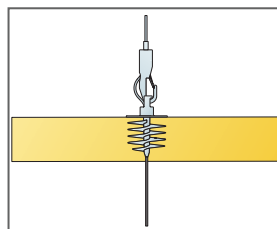|		Size, mm
		1800x1200
1	Solo Rectangle	2,16m²/panel
2	Connect Adjustable wire hanger (Alt 1)	6/panel
3	Connect Covering cup (Alt 1, Optional)	6/panel
4	Connect Adjustable wire kit (Alt 1, Optional)	6/panel
5	Connect Absorber anchor (Alt 1)	6/panel
6	Connect Absorber bracket (Alt 2)	6/panel
7	Connect Absorber anchor (Alt 2)	6/panel
	Δ Min. overall depth of system: Δ1 140 mm / Δ2 90 mm	-

See Quantity specification

Two types of Adjustable wire solutions

Panels can be suspended underneath each other

Panels can be installed in angles

INSTALLATION DIAGRAM (M405) FOR ECOPHON SOLO RECTANGLE 2400X600
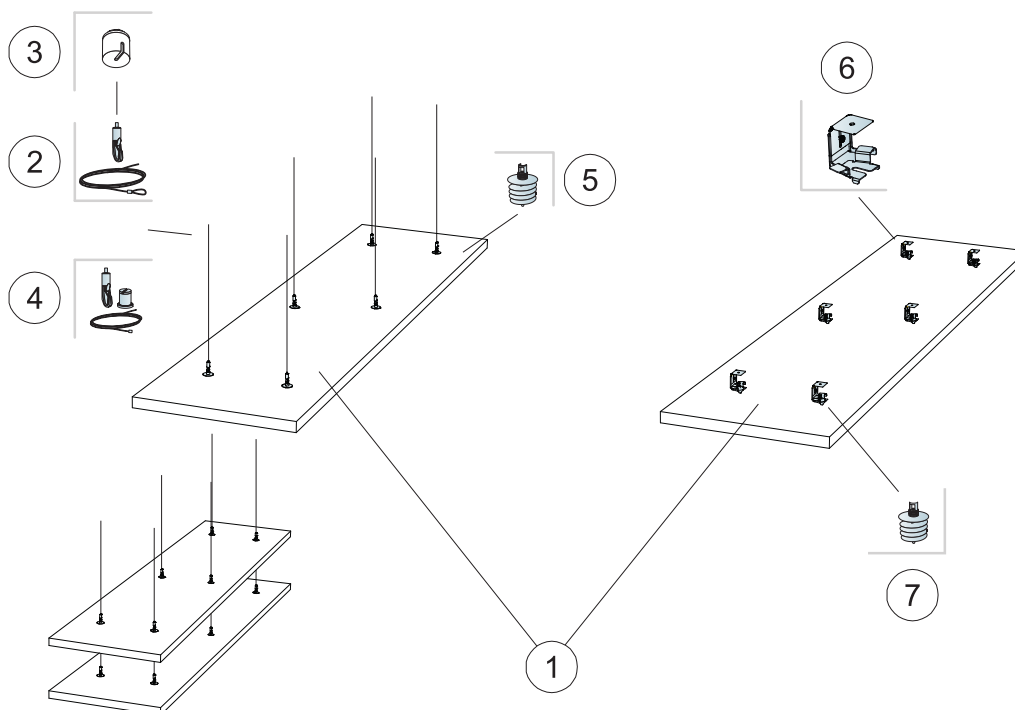
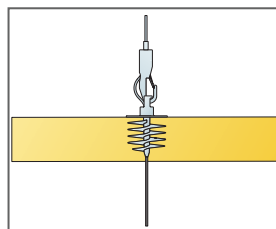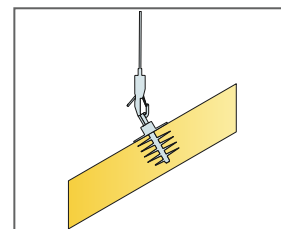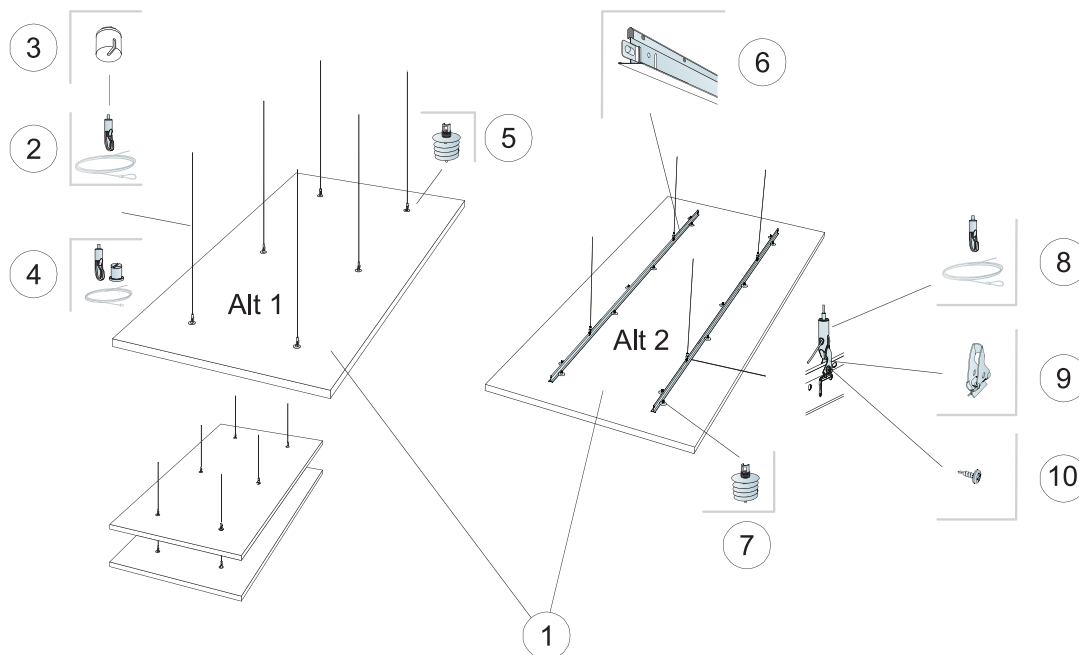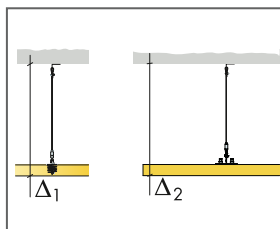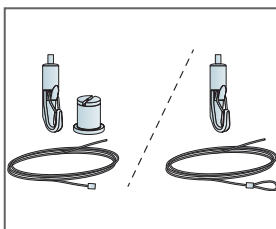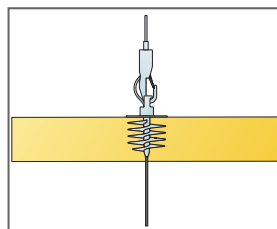## QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		2400x600
1	Solo Rectangle	1,44m²/panel
2	Connect Adjustable wire hanger (Alt 1)	6/panel
3	Connect Covering cup (Alt 1, Optional)	6/panel
4	Connect Adjustable wire kit (Alt 1, Optional)	6/panel
5	Connect Absorber anchor (Alt 1)	6/panel
6	Connect Absorber bracket (Alt 2)	6/panel
7	Connect Absorber anchor (Alt 2)	6/panel
	Δ Min. overall depth of system: Δ1 140 mm / Δ2 90 mm	-

See Quantity specification

Two types of Adjustable wire solutions

Panels can be suspended underneath each other

Panels can be installed in angles

Alt 1

Alt 2

QUANTITY SPECIFICATION (EXCL. WASTAGE)

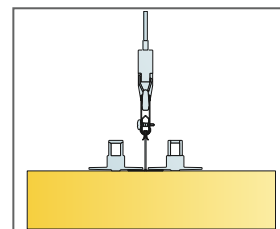|		Size, mm
		2400x1200
1	Solo Rectangle	2,88m²/panel
2	Connect Adjustable wire hanger (Alt 1)	6/panel
3	Connect Covering cup (Alt 1, Optional)	6/panel
4	Connect Adjustable wire kit (Alt 1, Optional)	6/panel
5	Connect Absorber anchor (Alt 1)	6/panel
6	Connect T24 Main runner (Alt 2)	2/panel
7	Connect Absorber anchor (Alt 2)	14/panel
8	Connect Adjustable wire hanger (Alt 2)	4/panel
9	Connect Hanger Clip (Alt 2)	4/panel
10	Connect Installation screw BR (Alt 2)	4/panel
	Δ Min. overall depth of system: Δ1 140 mm / Δ2 200 mm	-

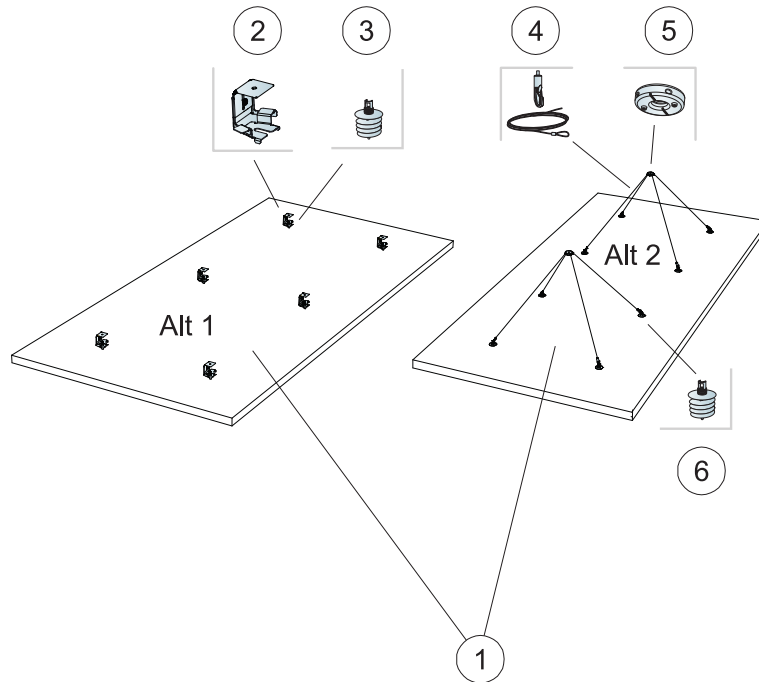See Quantity specification

Two types of Adjustable wire solutions

Panels can be suspended underneath each other

Installation with T24 Main runner

QUANTITY SPECIFICATION (EXCL. WASTAGE)

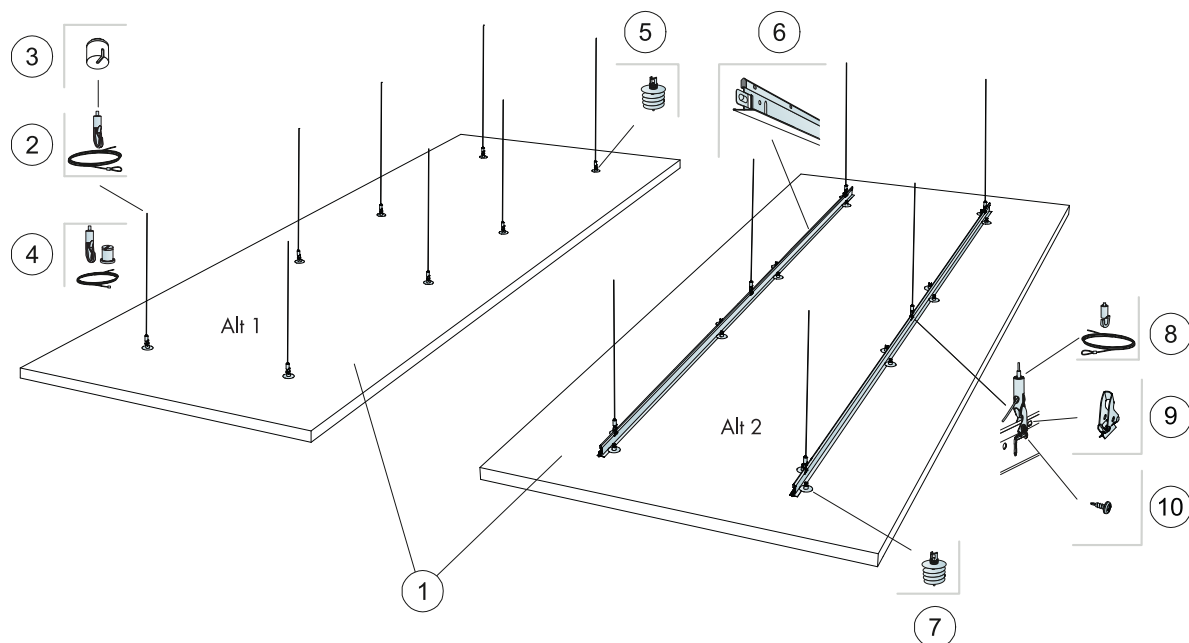|		Size, mm
		2400x1200
1	Solo Rectangle	2,88m²/panel
2	Connect Absorber bracket (Alt 1)	6/panel
3	Connect Absorber anchor (Alt 1)	6/panel
4	Connect Adjustable wire hanger (Alt 2)	4/panel
5	Connect One-point fixing (Alt 2)	2/panel
6	Connect Absorber anchor (Alt 2)	8/panel
	Δ Min. overall depth of system: Δ1 90 mm / Δ2 500 mm	-
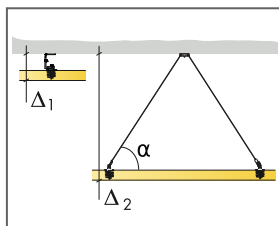
See Quantity specification
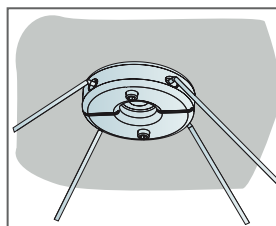
Detail of One-point fixing
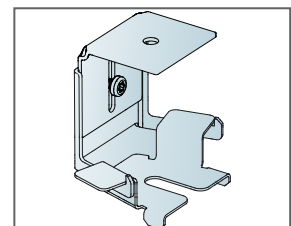
Details of Absorber bracket. Overall depth of system between 90-130mm

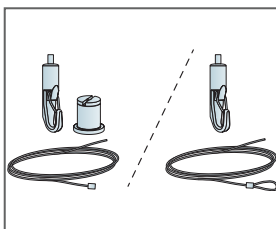INSTALLATION DIAGRAM (M408) FOR ECOPHON SOLO RECTANGLE 3000X1200


Alt 1

Alt 2

QUANTITY SPECIFICATION (EXCL. WASTAGE)

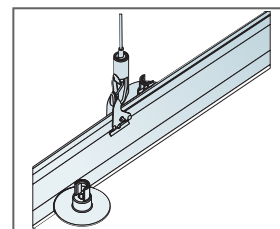|		Size, mm
		3000x1200
1	Solo Rectangle	3,6m²/panel
2	Connect Adjustable wire hanger (Alt 1)	8/panel
3	Connect Covering cup (Alt 1, Optional)	8/panel
4	Connect Adjustable wire kit (Alt 1, Optional)	8/panel
5	Connect Absorber anchor (Alt 1)	8/panel
6	Connect T24 Main runner (Alt 2)	2/panel
7	Connect Absorber anchor (Alt 2)	16/panel
8	Connect Adjustable wire hanger (Alt 2)	6/panel
9	Connect Hanger Clip (Alt 2)	6/panel
10	Connect Installation screw BR (Alt 2)	6/panel
	Δ Min. overall depth of system: Δ1 140 mm / Δ2 200 mm	-
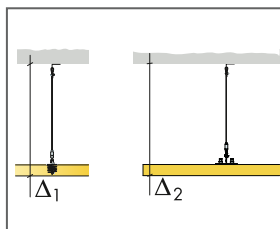
See Quantity specification

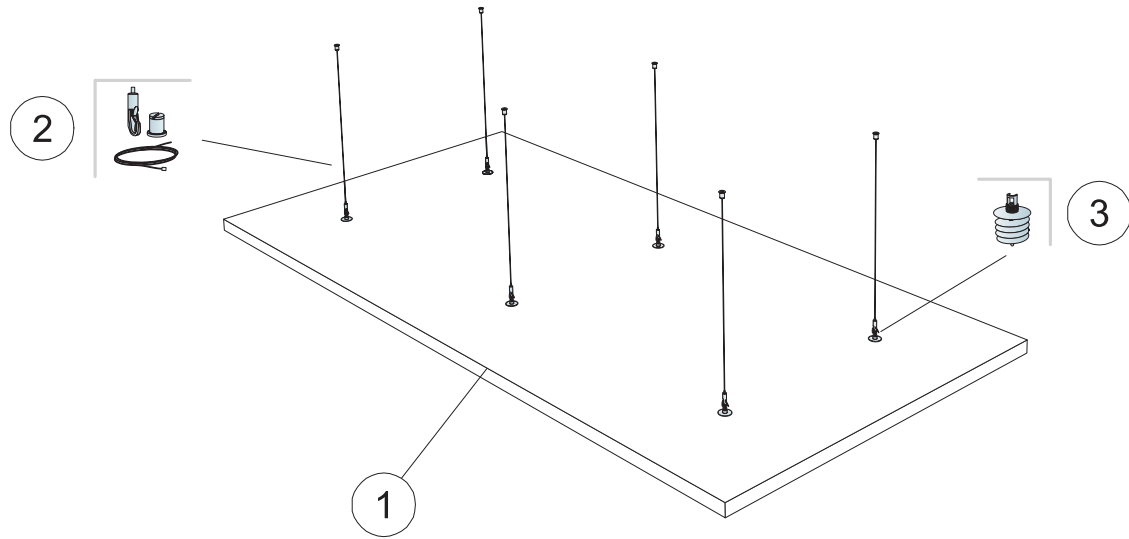Two types of Adjustable wire solutions
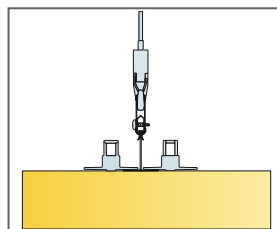
Installation with T24 Main runner

Installation of hanger clips

INSTALLATION DIAGRAM (M506) FOR ECOPHON SOLO RECTANGLE KIT 1800/2400X1200

## QUANTITY SPECIFICATION (EXCL. WASTAGE)

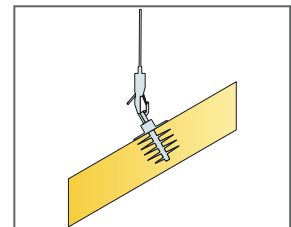|		Size, mm	
		1800x1200	**2400x1200**
1	Solo Rectangle Kit	2,16m²/panel	2,88m²/panel
2	Connect Adjustable wire kit 1500mm (included)	-	-
3	Connect Absorber anchor (included)	-	-
	Δ Min. overall depth of system: Δ 140 mm	-	-
	To install Connect Aborber Anchor, use Connect Absorber Anchor Bit.	-	-
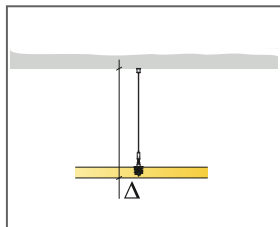
See Quantity specification
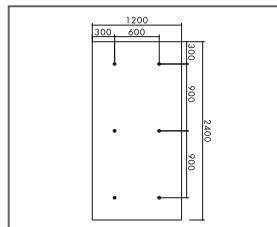
Suspension with absorber anchor, format 2400 x 1200
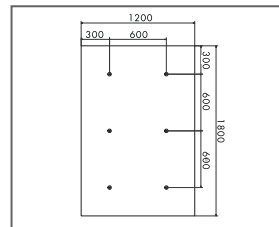
Suspension with absorber anchor, format 1800 x 1200

Panels can be installed in angles