Isol

An architectural and sound-absorbing lighting system
designed by David Thulstrup with Snowsound® technology

astep®

A sound-absorbing acoustic high performance lamp developed with Snowsound® technology

Isol

David Thulstrup
2021

Part sculpture and part light source, Isol can be used in a variety of combinations and in private and public environments as an aesthetic way of bringing acoustic properties into a space. Alone, it convinces through quiet authority offering a sense of privacy. In multiples, its distinctive character is enhanced by connecting the rings to extend lighting and noise-absorbing power.

Snowsound® technology

The patented Snowsound Fiber technology is based on soft interwoven polyester acoustic fibers that are inherently fire-resistant. The interaction between Snowsound Fiber and air allows controlling reverberation adjusting the environment's acoustics with precision. This reduces the acoustic reverberation improving quality both of life and of work.

Snowsound Fiber materials have been tested according to UNI EN ISO 354.

The choice of Snowsound Fiber material and the installation modes allow a selective absortion at precise ranges (low, medium, high) or a more uniform absortion at all frequencies.

Greenguard Gold certification

Snowsound Fiber products have received Greenguard Gold certification, indicating that they are low emitting products and do contribute to improve indoor air quality. Representative samples of products bearing the Greenguard certification mark have been independently tested and certified that they meet UL's rigorous third-party Greenguard certification standards, which are among the most stringent in the world. To help reduce indoor air pollution, architects, designers, specifiers and building owners are able to choose materials and products that release the fewest possible pollutants.

Embracing the shape of a cylinder, Isol, offers elegant functionality pared down to its simplest expression. Combine to create spacial installations.

Example 1

Room Data

Case	Restaurant
Total volume	96 m3
Surface of the floor	24 m2
Height of the room	4m
Surface Materials	
Floors	Tiles – 24 m2
Ceilings	Drywall – 24 m2
Walls	Plaster on brick wall – 64 m2
Doors/Windows	Glass (around 4mm) – 16 m2
People and chairs	Lightly padded chair or wooden chair (occupied) 7

Measuring reverberation time is crucial for accurately assessing total sound absorption. The reverberation time varies depending on the frequency characteristics of the space. If the reverberation time exceeds optimal levels, the environment may experience undesirable echoes and resonance.

An ideal acoustic comfort level is achieved around a reveberation time of **1 second**.

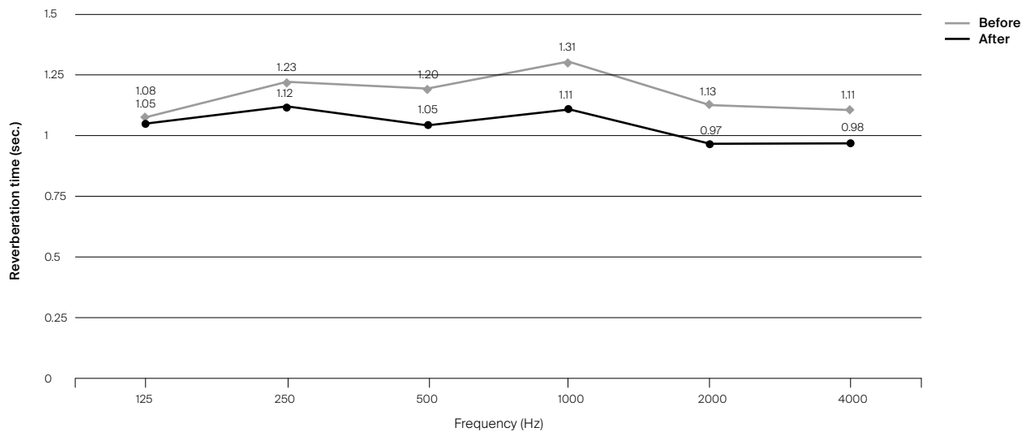
The software in this example has estimated the necessary quantity of **Isol 30x76** to obtain this level.*

* The data obtained through measurement software is an approximation, as it does not account for factors such as the precise positioning of the sound and the presence of absorbent surfaces.

Isol 30x76

Reverberation Test

Test Result w/ 5 Isol 30x76



To achieve the optimal sound absorbing acoustic abilities in the given example of 93 m^3 the needed quantity is: **5 Isol 30x76cm**

Example 2

Room Data

Case	Restaurant
Total volume	96 m3
Surface of the floor	24 m2
Height of the room	4m
Surface Materials	
Floors	Tiles – 24 m2
Ceilings	Drywall – 24 m2
Walls	Plaster on brick wall – 64 m2
Doors/Windows	Glass (around 4mm) – 16 m2
People and chairs	Lightly padded chair or wooden chair (occupied) 7

Measuring reverberation time is crucial for accurately assessing total sound absorption. The reverberation time varies depending on the frequency characteristics of the space. If the reverberation time exceeds optimal levels, the environment may experience undesirable echoes and resonance.

An ideal acoustic comfort level is achieved around a reveberation time of **1 second**.

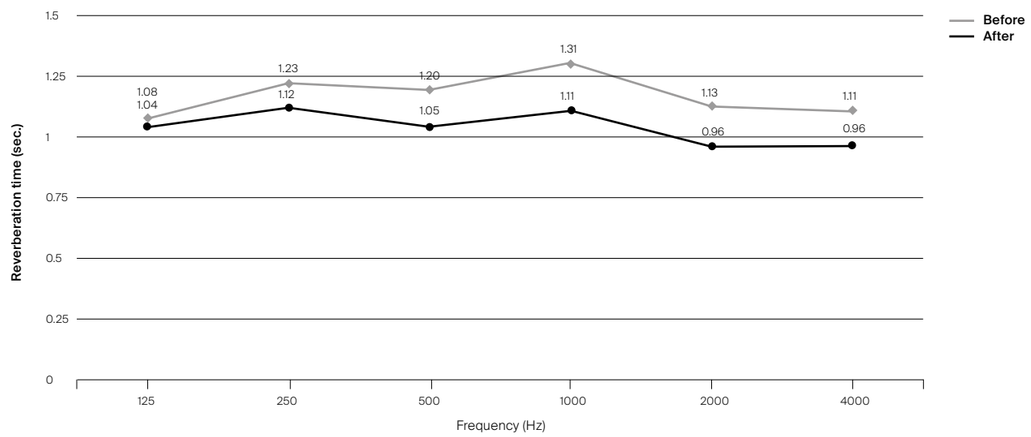
The software in this example has estimated the necessary quantity of **Isol 30x126** to obtain this level.*

* The data obtained through measurement software is an approximation, as it does not account for factors such as the precise positioning of the sound and the presence of absorbent surfaces.

Isol 30x126

Reverberation Test

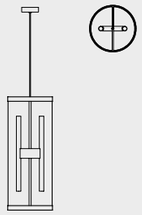
Test Result w/ 3 Isol 30x76



To achieve the optimal sound absorbing acoustic abilities in the given example of 93 m3 the needed quantity is: **3 Isol 30x126cm**

Isol 30x76

David Thulstrup, 2021



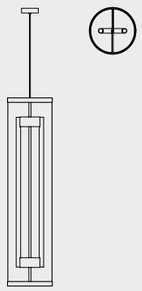
Typology	Suspension
Materials	Aluminium Structure, Acoustic Absorbent Fabric Diffuser with Snowsound® Technology
Dimensions	ø 300 x 760mm
Diffuser Diameter	ø 300mm
Cable Length	3000mm
	Bulbs Not Included

IP20

Item Code	Description	Weight	Light Source
A04-S51-S00B	30/76 Black	3.00kg	2 x S14d (8W Max)
A04-S51-S00C	30/76 Cream	3.00kg	2 x S14d (8W Max)

Isol 30x126

David Thulstrup, 2021



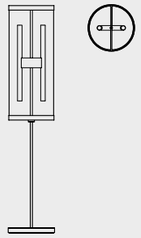
Typology	Suspension
Materials	Aluminium Structure, Acoustic Absorbent Fabric Diffuser with Snowsound® Technology
Dimensions	ø 300mm x 1260mm
Diffuser Diameter	ø 300mm
Cable Length	3000mm
	Bulbs Not Included

IP20

Item Code	Description	Weight	Light Source
A04-S61-S00B	30/126 Black	4.70kg	2 x S14s (12W Max)
A04-S61-C00C	30/126 Cream	4.70kg	2 x S14s (12W Max)

Isol Floor 30x76

David Thulstrup, 2023



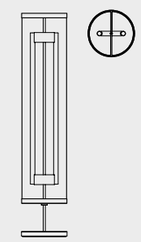
Typology	Suspension
Materials	Aluminium Structure, Acoustic Absorbent Fabric Diffuser with Snowsound® Technology
Dimensions	ø 300 x H1480mm
Diffuser Diameter	ø 300
Control	Foot Dimmer
	Bulbs Not Included

CE UK CA EAC IP20

Item Code	Description	Weight	Light Source
A04-F51-S00B	30/76 Black	7.50kg	2 × S14d 500mm (8W Max)
A04-F51-S00C	30/76 Cream	7.50kg	2 × S14d 500mm (8W Max)

Isol Floor 30x126

David Thulstrup, 2023



Typology	Suspension
Materials	Aluminium Structure, Acoustic Absorbent Fabric Diffuser with Snowsound® Technology
Dimensions	ø 300 x H1480mm
Diffuser Diameter	ø 300
Control	Foot Dimmer
	Bulbs Not Included

CE UK CA EAC IP20

Item Code	Description	Weight	Light Source
A04-F61-S00B	30/126 Black	8.00kg	2 × S14s 1000mm (12W Max)
A04-F61-S00C	30/126 Cream	8.00kg	2 × S14s 1000mm (12W Max)

astep®

Certified B Corporation