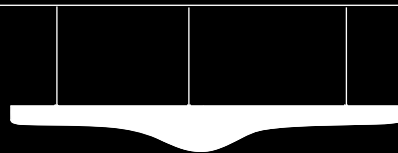


SUSPENSION



Pétale

Odile Decq

Contents

Pétale

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Light and acoustic comfort

EN Sustainability and wellbeing are crucial factors for technological and design innovation based on genuine environmental responsibility. In particular, in shared spaces for work, study, dining or free time, noise pollution caused by excessive propagation of disturbing sounds threatens to have a negative impact on physical and psychological wellbeing. To address this problem, Luceplan has inserted a special sound-absorbing panel inside a lamp, to improve acoustic comfort in the surrounding area.

The result is Pétale, a versatile and elegant suspension lamp designed by French architect Odile Decq. The body of the lamp, covered in white flameproof fabric, stands out for its fluid, ethereal organic design. With this creation, Luceplan consolidates its commitment in the areas of sustainability and wellness.

IT Sostenibilità e benessere rappresentano fattori cruciali nel contesto di un'innovazione progettuale e tecnologica che possa dirsi autenticamente ecoresponsabile. In particolare, negli spazi collettivi - dedicati al lavoro, allo studio, alla ristorazione, al tempo libero - l'inquinamento acustico, causato da un'eccessiva propagazione di rumori e suoni molesti, rischia di incidere negativamente sull'equilibrio psicofisico dell'uomo. Per ovviare a questo problema, Luceplan ha pensato di racchiudere all'interno di una lampada uno speciale pannello fonoassorbente che consente di migliorare il comfort acustico nello spazio circostante.

È nata così Pétale, versatile ed elegante lampada a sospensione progettata dall'architetto francese Odile Decq, il cui corpo, rivestito in tessuto bianco ignifugo, è caratterizzato da una fluida ed aerea forma organica. Con questa creazione, Luceplan riconferma il proprio impegno sul duplice versante della sostenibilità e del benessere.

DE Nachhaltigkeit und Komfort sind grundlegende konzeptuelle Faktoren von im wahrsten Sinne des Worts umweltverantwortlicher planerischer und technologischer Innovation. Insbesondere dort, wo Menschen zusammen kommen - in der Arbeit, beim Unterricht, in Lokalen und Freizeiteinrichtungen - kann das menschliche psychophysische Gleichgewicht durch akustische Verschmutzung aufgrund zu starken Nachhalls von Lärm und störenden Geräuschen beeinträchtigt werden. Um dieses Problem anzugehen, hat Luceplan eine spezielle schallabsorbierende Platte innerhalb einer Leuchte eingesetzt, um den akustischen Komfort in der Umgebung zu verbessern. So entsteht Pétale, eine vielseitige und elegante Pendelleuchte, entworfen von der französischen Architektin Odile Decq. Der Lampenkörper hat eine fluide, organische, schwerelose Form und ist mit feuerfestem weißem Stoff bezogen.

Eine Kreation, mit der Luceplan ein weiteres Mal sein Engagement unter Beweis stellt.

FR Durabilité et bien-être sont essentiels en vue d'une innovation conceptuelle et technologique véritablement éco-responsable. En ce qui concerne en particulier les espaces collectifs - réservés au travail, à l'étude, à la restauration ou aux loisirs - la pollution acoustique entraînée par une propagation excessive des sons gênants risque de se répercuter négativement sur notre équilibre psychophysique. Pour résoudre ce problème, Luceplan a eu l'idée de renfermer dans une lampe un panneau phonoabsorbant qui permet d'améliorer le confort acoustique de l'espace ambiant.

L'architecte française Odile Decq a ainsi créé Pétale, une lampe à suspension adaptable et élégante dont le corps revêtu de tissu blanc ignifugé se caractérise par une forme organique, fluide et aérienne. Avec cette création, Luceplan confirme à nouveau son engagement.

ES Sostenibilidad y bienestar constituyen factores cruciales en el contexto de una innovación creativa y tecnológica que pueda considerarse auténticamente ecoresponsable. En particular, en los espacios colectivos - dedicados al trabajo, al estudio, a la restauración y al tiempo libre - la contaminación acústica, causada por una excesiva propagación de ruidos y sonidos molestos, puede incidir negativamente en el equilibrio psicofísico del hombre. Para resolver este problema, Luceplan ha ideado una lámpara en cuyo interior se encuentra un especial panel fonoabsorbente que permite mejorar el confort acústico en el espacio de alrededor. Así nace Pétale, una lámpara versátil y elegante de suspensión, proyectada por el arquitecto francés Odile Decq, cuyo cuerpo, revestido de tejido blanco ignífugo, se caracteriza por una forma orgánica fluida y aérea. Con esta creación, Luceplan vuelve a confirmar el compromiso adquirido.





All-in-one solution

EN Pétale could be defined as a gracefully suspended petal that spreads soft, smooth white light. But the truly extraordinary feature of this object with an organic form is the way it absorbs sound. The body of the lamp, covered with white fabric, is made with a sound-absorbing panel. The dome that supports the optic is in polycarbonate. While it is ideal for use in compositions of multiple 'light petals' in large spaces for hospitality and socializing, Pétale also performs its multiple functions perfectly as a 'soloist' in any inhabited context.

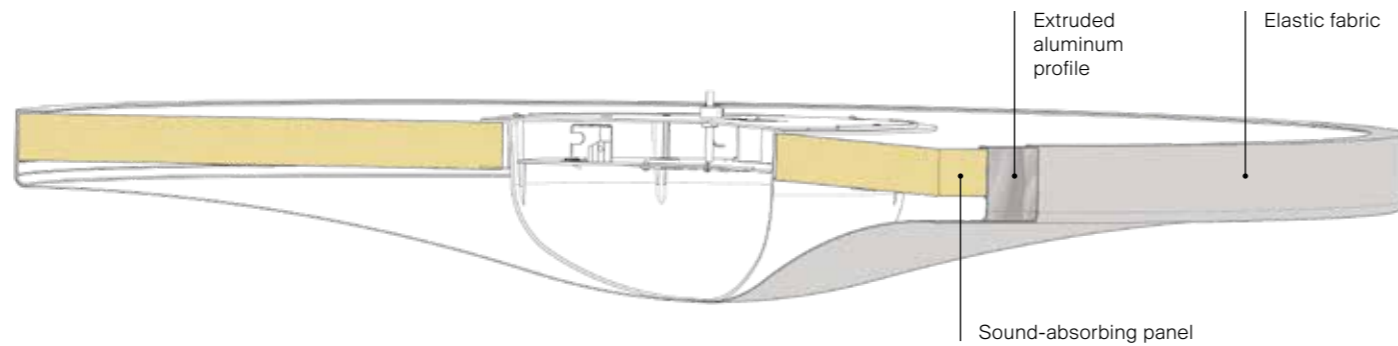
IT Pétale si potrebbe definire un petalo sospeso con grazia che diffonde una luce bianca soffusa e ovattata. Ma la straordinaria prerogativa di questa lampada dalla forma organica, risiede nella sua capacità di assorbire il rumore. Il corpo lampada, rivestito con un tessuto bianco, è costituito da un pannello fonoassorbente. La cupola che contiene l'ottica è in policarbonato. Particolarmente indicata per composizioni in grandi spazi d'accoglienza e convivialità, Pétale svolge la sua molteplice funzione anche "singolarmente", in ogni contesto abitativo.

DE Pétale ließe sich als anmutig schwebendes Blütenblatt definieren, das blendfreies, weiches Licht abgibt. Das Besondere an dieser organisch geformten Leuchte ist aber ihre Fähigkeit, Schall zu schlucken. Der Leuchtenkörper besteht aus einem schallabsorbierenden Paneel und ist mit einem weißen textilen Überzug bespannt. Die Kuppel für die Optik besteht aus Polycarbonat. Pétale eignet sich für Beleuchtungskombinationen in einer Umgebung mit großen Menschenansammlungen, lässt sich mit ihrer vielseitigen Funktion aber auch einzeln einsetzen in Wohnräumen.

FR Pétale: une lampe-pétale suspendue avec grâce qui diffuse une lumière blanche tamisée et ouatée. Mais la caractéristique extraordinaire de cette lampe de forme organique réside en sa capacité d'absorber le bruit. Le corps de la lampe, revêtu d'un tissu blanc, est constitué d'un panneau phonoabsorbant. La coupole qui en soutient l'optique est en polycarbonate. Particulièrement indiquée pour des compositions valorisant de grands espaces d'accueil et de convivialité, Pétale remplit ses multiples fonctions également en solo, dans le contexte d'un logement.

ES Pétale se podría definir como un pétalo suspendido con gracia que difunde una luz blanca velada y tenue. Pero la extraordinaria prerogativa de esta lámpara de forma orgánica reside en su capacidad de absorber el ruido. El cuerpo de la lámpara, revestido con un tejido blanco, se compone de un panel fonoabsorbente. La cúpula que sujeta su óptica es de policarbonato. Particolarmente indicada para composiciones en grandes espacios de acogida y convivencia, Pétale también lleva a cabo su función múltiple de manera «individual», en cada contexto habitacional.

Technical and acoustic specifications



Sound absorbing panel

Environmental influence.
Granted the Nordic Swan eco-label.
Fully recyclable.

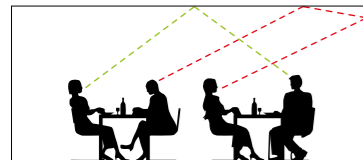
Fire safety

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

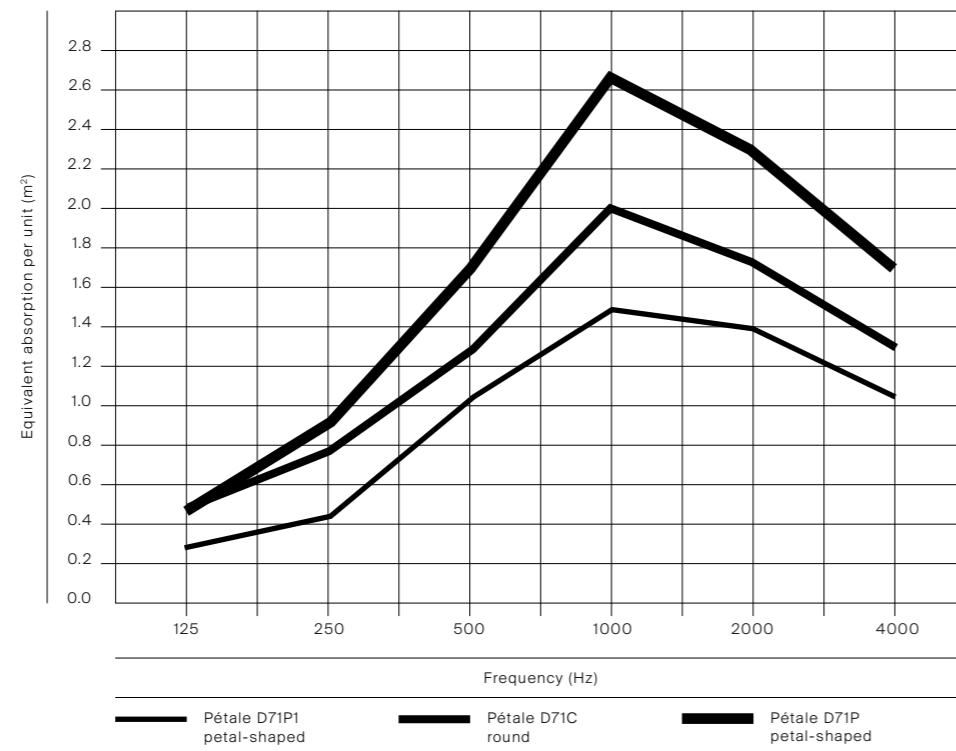
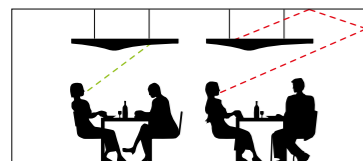
The technology of Pétale is based on free suspended sound-absorbing units. Sound waves propagate through the fabric and penetrate inside the sound absorbing material, where their energy is reduced.

With Pétale, the sound waves are not just absorbed by the bottom surface but also by the top, which intercepts sound reflected by walls and ceilings.

without Pétale



with Pétale



EN Background noise – particularly in modern buildings – can often be uncomfortably loud, due to the predominance of sound-reflecting materials. The design of the room (shape, furnishings, surface finishes, etc.) influences the extent to which the sound level decreases in relation to distance. An unfurnished room with sound reflective surfaces, such as a church, is perceived as being more reverberant than a well-furnished living room. The materials used in Pétale provide sound absorption and prevent acoustic overlap, particularly in the case of human voices, which lies in the frequency range between 200 and over 3000 hertz (Hz). In this area the lamp achieves its best results thanks to its structure, which makes the sound waves “bounce” inside it. A conversation taking place immediately below the lamp benefits from a high level of speech clarity, and general comfort is guaranteed.

IT I rumori di sottofondo, soprattutto nelle architetture contemporanee, possono essere molto fastidiosi a causa della predominanza di materiali e superfici che riflettono i suoni. La progettazione degli ambienti (forme, arredi, finiture delle superfici, ecc.) influenza la misura in cui il livello acustico decresce in rapporto alla distanza. Un locale non arredato e con superfici di scarso assorbimento acustico, come ad esempio una chiesa, viene percepito con maggior riverbero rispetto a un ambiente arredato. I materiali utilizzati per le lampade Pétale garantiscono un elevato assorbimento acustico e diminuiscono il rimbombo sonoro, in particolare collegato alla voce umana che ha un range di frequenza che varia tra 200 e 3000 Hertz (Hz). In questo range le lampade Silenzio sono molto efficaci grazie alla loro struttura che cattura le onde sonore. Le sospensioni Pétale producono una elevata chiarezza del parlato e generano un comfort acustico diffuso.

DE Hintergrundlärm, insbesondere in modernen, funktionalen Gebäudebereichen, kann aufgrund der Schallreflektion durch die verwendeten Materialien häufig unangenehm laut sein. Der Raumentwurf (seine Form, die Ausstattung, die Art der Oberflächen usw.) hat Einfluss darauf, ab welcher Entfernung der Lärmpegel geringer wird. Ein leerer Raum mit harten Flächen, beispielsweise eine Kirche, wird als stärker hallend wahrgenommen als ein gut eingerichtetes Wohnzimmer. Die Materialien, aus denen Pétale besteht, sorgen für Schallabsorption und Überschneidung der Schallwellen, insbesondere der menschlichen Stimme, die in einem Frequenzbereich zwischen 200 bis etwas mehr als 3000 Hertz (Hz) liegt. Ihre beste Leistung erzielt die Lampe dank ihrer Struktur, an der die Schallwellen innen abprallen, in diesem Bereich. Gespräche, die direkt unter der Lampe stattfinden, zeichnen sich durch die gute Sprachverständlichkeit und allgemeinen Hörkomfort aus.

FR Les bruits de fond, surtout dans les architectures contemporaines, peuvent résulter très gênantes à cause de l'abondance de matériaux et de surfaces sur lesquels les sons rebondissent. La conception des locaux (les formes, la décoration, les finitions des surfaces, etc.) influe sur la décroissance du niveau acoustique par rapport à la distance. Un local presque vide et avec des surfaces qui absorbent peu les sons, comme par exemple une église, fonctionnera plus comme caisse de résonance qu'un espace meublé et décoré. Les matériaux utilisés pour les lampes Pétale garantissent une absorption acoustique élevée et limitent le résonnement sonore, en particulier celui qui est généré par la voix humaine dont la fréquence varie de 200 à 3000 Hertz (Hz). Pour cet écart de fréquence, les lampes Silenzio sont particulièrement efficaces grâce à leur structure qui capture les ondes sonores. Les suspensions Pétale confèrent une clarté élevée aux conversations et génèrent un confort acoustique diffus.

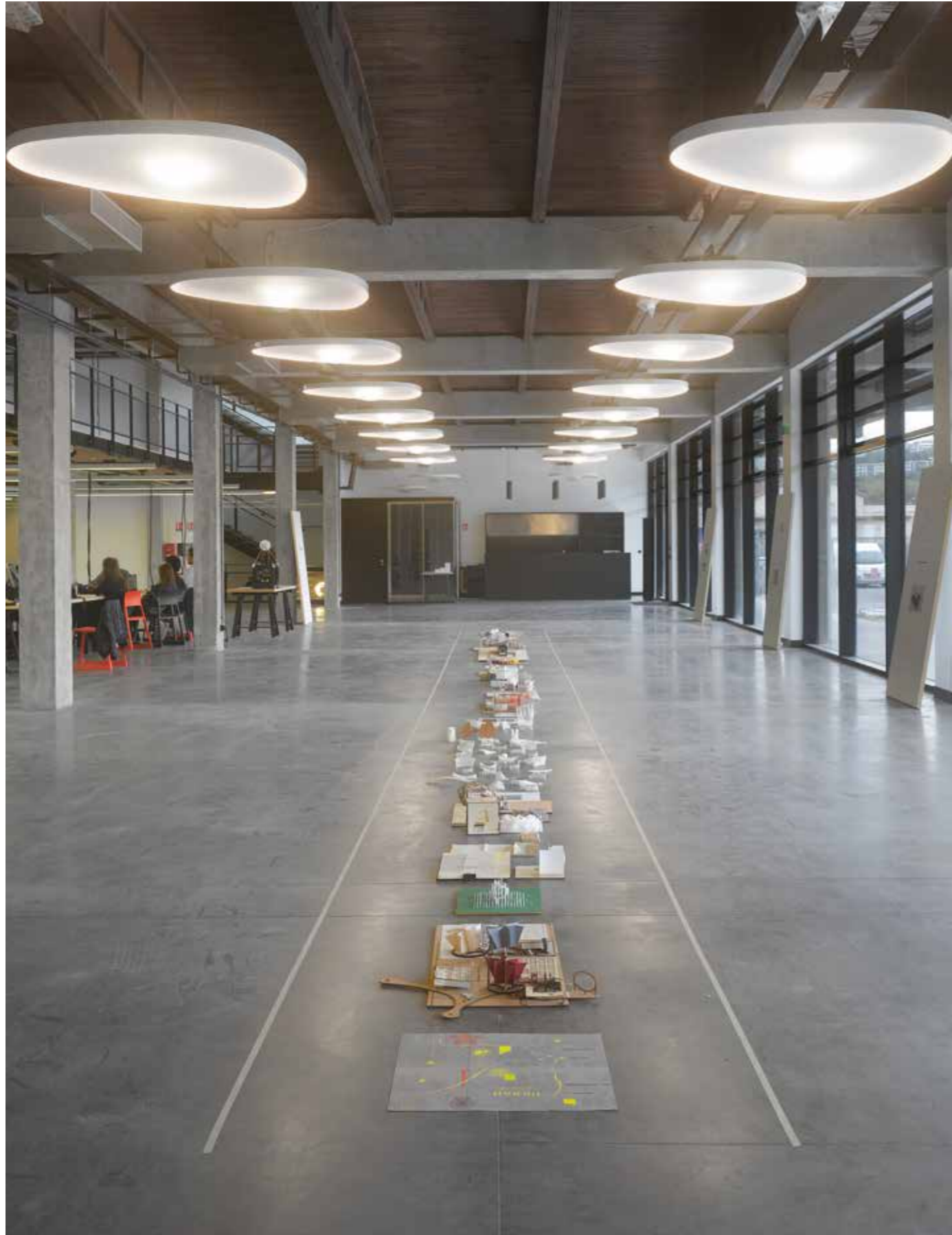
ES Los ruidos de fondo, sobre todo en la arquitectura contemporánea, pueden ser muy molestos a causa del predominio de materiales y superficies que reflejan los sonidos. La planificación de los ambientes (formas, decoraciones, acabados de las superficies, etc.) influye en la medida en que el nivel acústico decrece en relación a la distancia. En un local no decorado y con superficies de escasa absorción acústica, como por ejemplo una iglesia, se percibe una mayor reverberación que en un ambiente decorado. Los materiales utilizados para las lámparas Pétale garantizan una elevada absorción acústica y disminuyen la resonancia sonora, en especial en relación con la voz humana, que tiene un rango de frecuencias que varía entre los 200 y los 3.000 Hz. En este rango, las lámparas Pétale son muy eficaces gracias a su estructura, que captura las ondas sonoras. Las suspensiones Pétale producen una elevada claridad del habla y generan una comodidad acústica difusa.



PLACE	Paris, France
ARCHITECT	Studio Odile Decq
LIGHTING DESIGNER	Studio Odile Decq
PHOTO	Roland Halbe

read more: acoustic.luceplan.com/





Projects

Confluence



PLACE	Lyon, France
ARCHITECT	Studio Odile Decq
LIGHTING DESIGNER	Studio Odile Decq
PHOTO	Roland Halbe

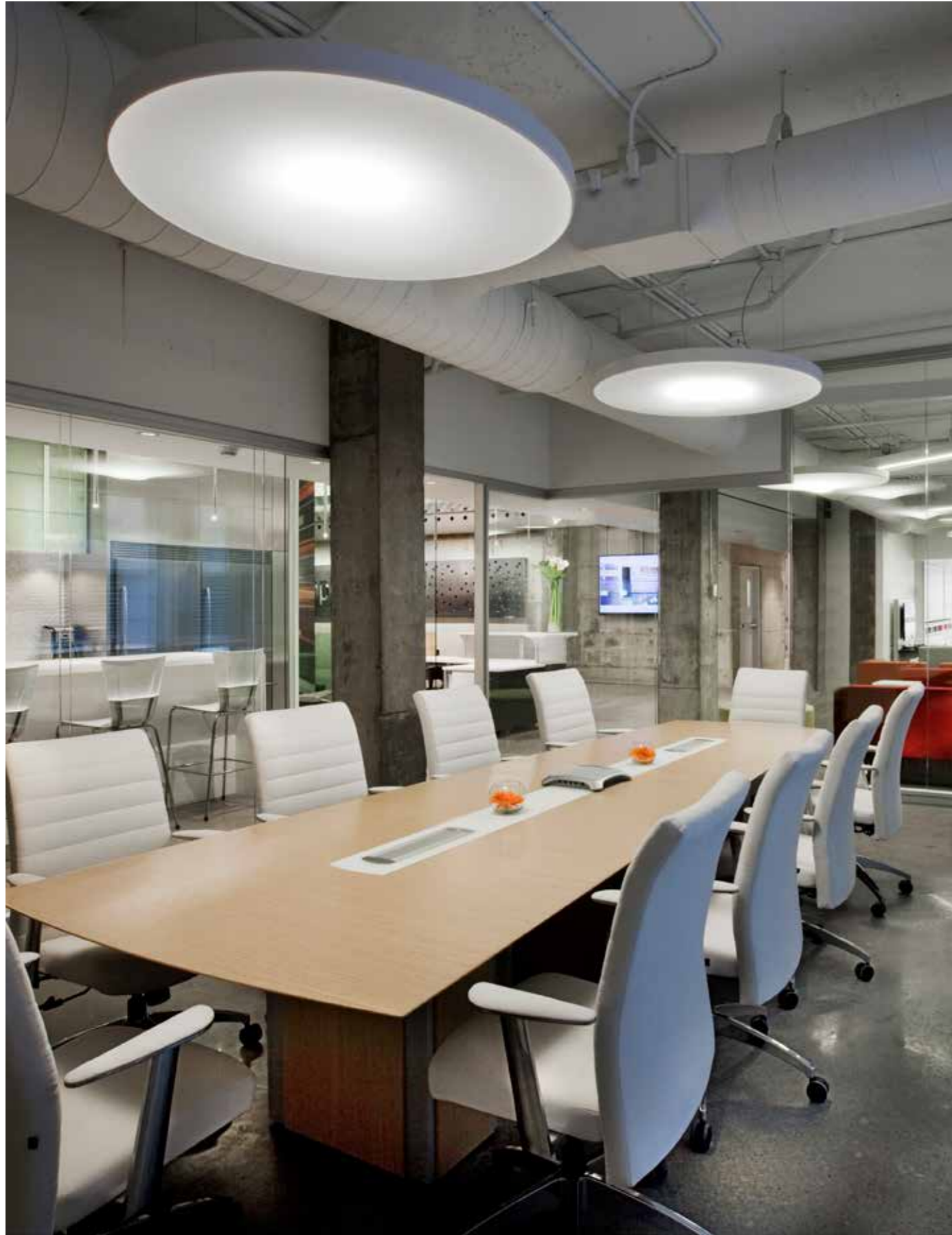
read more: acoustic.luceplan.com/



PLACE	Ottawa, Canada
ARCHITECT	Line Box Studio, Andrew Reeves
LIGHTING DESIGNER	Dark Tools Toronto
PHOTO	Younes Bounhar

read more: acoustic.luceplan.com/





Projects

Artopex



PLACE	Montreal, Canada
PROJECT	Lemay Studio Montreal
PHOTO	Langloisphoto

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PLACE Rome, Italy
 LIGHTING DESIGNER Philips and Luceplan
 PHOTO Ivan Sarfatti

read more: acoustic.luceplan.com/



Pétale application

1

Model of application: office

Location analysis:

a pleasant workspace must guarantee a perfect balance between correct, uniform lighting of workspaces and a comfortable acoustic "situation" in which the noise produced inside the space is reduced to a minimum level.

Solution:

Pétale suspensions combine the technology of a fiberglass panel that absorbs the sound waves reflected by the room's surfaces with an integrated high-performance lighting module. The result is a comfortable lightscape and a pleasing acoustic sensation.

2

Room data

L = 6 m
W = 6 m
H = 4 m

Lighting source used

LED 40W
LED strip 18W

Fixtures installation

1 fixture every
2 workspace at 2,5 m

Illuminance average

Workspaces 362 lx

3

Before: Time of reverberation* 1,20 s

After: (+ 2 Pétale D71P1)

Time of reverberation 0,98 s

Decrease of reverberation: about 19%**

* Measuring reverberation time allows to calculate total sound absorption. Reverberation time varies according to the frequency. If reverberation time is too long, the space can have echoes and rumbles.

** The data is always approximate: the software doesn't take in consideration the position of the speaker and the position of absorbent surfaces.



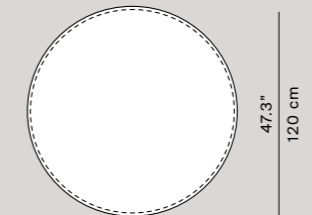
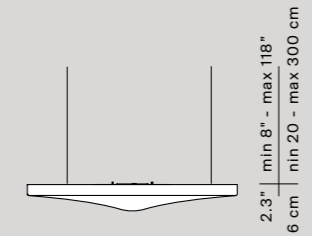


D71CV + D71/6DV
weight 13,0 Kg

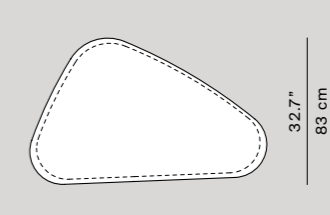
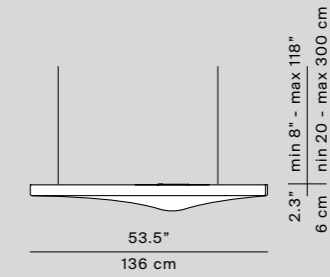
D71PV + D71/6DV
weight 14,10 Kg

D71PIV + D71/6DV
weight 16,50 Kg

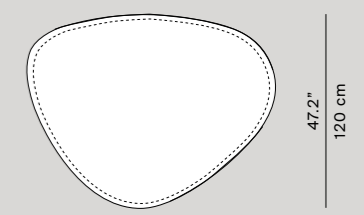
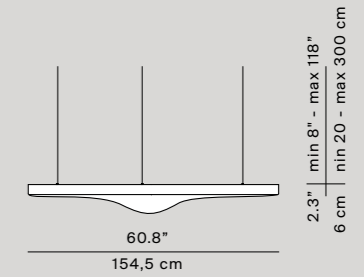
D71CV



D71PV

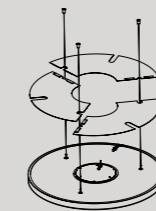


D71PIV

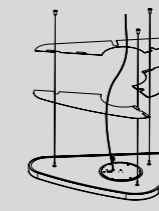


Accessoires cover

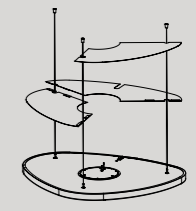
D71/OAC for D71CL



D71/OAP for D71PL

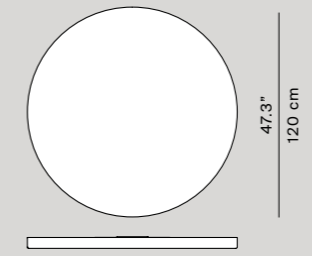


D71/OAP1 for D71P1L

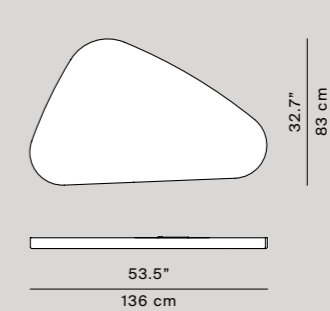


Soundproofing bodies suspension (D71/s) or wall (D71/S1) mounting kits are required for installation

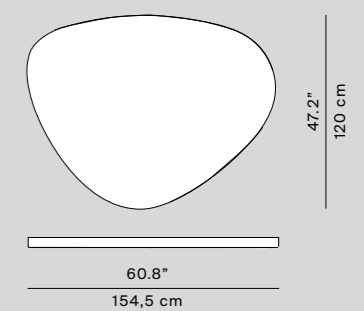
D71CA



D71PA



D71P1A



Light source

D71CV

18W LED strip 3000K CRI 90 dimmable DALI

D71PV

17W LED strip 3000K CRI 90 dimmable DALI

D71PIV

21W LED strip 3000K CRI 90 dimmable DALI

D71/7DV

LED 45W 3000K CRI 90 dimmable push/DALI

D71/7DL (direct/indirect light)

LED 45W 2700K CRI 90 + LED 25W 2700K CRI 90 dimmable push/DALI

D71/DLW (direct/indirect light)

LED 45W 3000K CRI 90 + LED 25W 3000K CRI 90 dimmable push/DALI

Materials

Aluminium structure and textile

Structure finishes

○ White



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