Quickinfo

PET felt
♻ from recycled material
up to absorption class A
🔥 flame retardant version available

3000 K, 4000 K
CRI ≥80, 3 SDCM
up to 142 lm/W
L90 @ 50 000 h
DALI-2
opal, microprismatic (UGR ≤ 19)

Types

acoustic module	acoustic module flat
100	40
ø 500	ø 750
ø 750	ø 1000
ø 1000	

acoustic absorber
237
ø 750
ø 1000

luminaire
100
ø 500   ø 750   ø 1000

Acoustic colours

standard   xilence.xal.com/colours

Luminaire colours

standard   xal.com/colours

Light distribution

direct

design by
13&9

HEX-O
ceiling

EN Hexagonal luminaires & acoustic elements, suitable for single or group installation; acoustic element made of high quality, self-supporting, recycled PET felt with sound absorbing properties; MODULE in the luminaires' dimensions, FLAT with reduced height, ABSORBER to combine with other housings; acoustically effective cavities; absorption and scattering of sound waves; light housing from extruded aluminium profile, seamlessly welded; powder coated; satinised or microprismatic PMMA cover; energy-eff. LEDs - very good colour rendering; plug-in terminals for through wiring; installation without tools
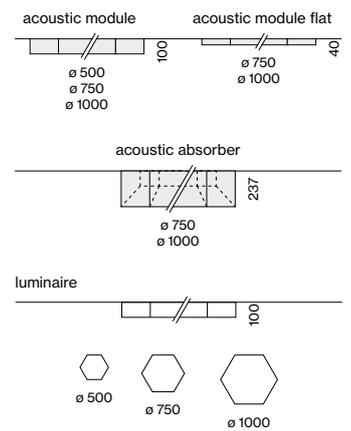
ES Luminarias & elementos acústicos hexagonales aptos para el montaje individual o en grupo; Elemento acústico de fieltro PET reciclado y autoportante de calidad superior con propiedades de absorción del sonido; MODULE en las medidas de las luminarias, FLAT de altura reducida, ABSORBER para la combinación con otros elementos o luminarias; cavidades con efecto acústico; absorción y difusión del sonido; cuerpo luminoso de perfil de aluminio extrusionado, sin costuras de soldadura; recubierto de polvo; difusor de PMMA satinado o microprismático; LED energét. efic. - excelente reprod. crom.; clema de inserción para cableado pasante; instalación sin herramientas
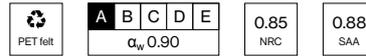
modular
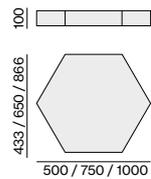system

easy mounting
with one click

wide range
of colours
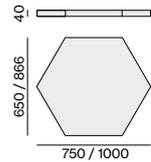
microprismatic
(UGR ≤ 19)

Order options

ACOUSTIC COLOUR ◨

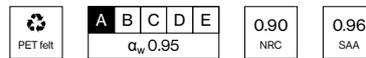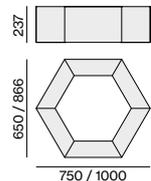|	
○ white	W
● marble grey	D
● felt grey	G
● black	L
◉ special colours	X

HEX-O MODULE ceiling

♻ PET felt	A B C D E α_w 0.90	0.85 NRC	0.88 SAA

TYPE	L·W·H (mm)	ORDER CODE
MODULE 500	500·433·100	073-691510 ◨
MODULE 750	750·650·100	073-691610 ◨
MODULE 1000	1000·866·100	073-691710 ◨

HEX-O MODULE FLAT ceiling

♻ PET felt	A B C D E α_w 0.50	0.70 NRC	0.69 SAA

TYPE	L·W·H (mm)	ORDER CODE
MODULE FLAT 750	750·650·40	073-691620 ◨
MODULE FLAT 1000	1000·866·40	073-691720 ◨

HEX-O ABSORBER

♻ PET felt	A B C D E α_w 0.95	0.90 NRC	0.96 SAA

TYPE	L·W·H (mm)	ORDER CODE
ABSORBER 750*	750·650·237	073-691640 ◨
ABSORBER 1000**	1000·866·237	073-691740 ◨

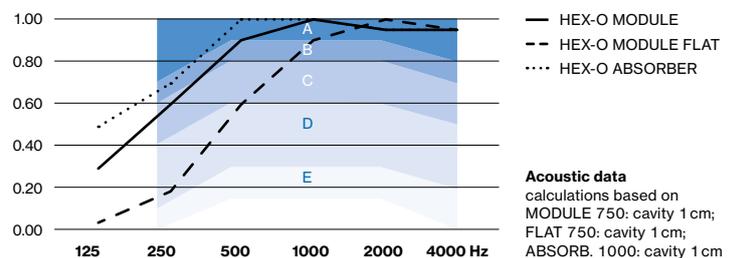*only in combination with HEX-O 500 or MODULE 500

**only in combination with HEX-O 750, MODULE 750 or MODULE FLAT 750

Acoustic data

Equivalent sound absorption area (A_eq)

TYPE	125	250	500	1000	2000	4000 Hz
MODULE 500	0.09	0.18	0.30	0.32	0.28	0.32
MODULE 750	0.17	0.33	0.57	0.60	0.53	0.60
MODULE 1000	0.27	0.54	0.91	0.97	0.86	0.97
MODULE FLAT 750	0.03	0.10	0.27	0.40	0.50	0.43
MODULE FLAT 1000	0.06	0.17	0.45	0.67	0.84	0.72
ABSORBER 750	0.42	0.61	0.98	0.86	0.84	0.84
ABSORBER 1000	0.57	0.83	1.33	1.17	1.13	1.13

Sound absorption coefficient (α_p)

— HEX-O MODULE
-- HEX-O MODULE FLAT
···· HEX-O ABSORBER

Acoustic data
calculations based on
MODULE 750: cavity 1 cm;
FLAT 750: cavity 1 cm;
ABSORB. 1000: cavity 1 cm

Order options

COLOUR TEMPERATURE ⠶

3000 K	5
4000 K	6

CONTROL
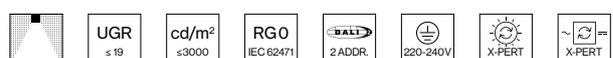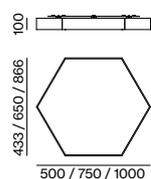
DALI-2

LUMINAIRE COLOUR ◨

○ pure white RAL 9010	7
● jet black RAL 9005	8
◉ special colours	X

LIGHT OPTIC COVER ▢

opal	O
microprismatic (UGR ≤ 19)	P

LUMINOUS FLUX value calculated for
4000 K, colour white, cover microprism.

HEX-O ceiling

UGR ≤ 19	cd/m² ≤3000	RG0 IEC 62471	DALI 2 ADDR.	220-240V	X-PERT	X-PERT

TYPE	SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
500	16.3 W	2290 lm	073-6151 ⠶ 3 ◨▢
750	35 W	4960 lm	073-6161 ⠶ 3 ◨▢
1000	68 W	9640 lm	073-6171 ⠶ 3 ◨▢

Quickinfo

PET felt
♻ from recycled material
up to absorption class A
🔥 flame retardant version available

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 142 lm/W
L90 @ 50 000 h
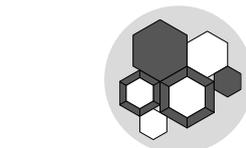DALI-2
opal, microprismatic (UGR ≤ 19)

Types

acoustic module	acoustic module flat
100	40
ø 500 ø 750 ø 1000	ø 750 ø 1000

acoustic absorber

237

ø 750
ø 1000

luminaire

100

ø 500   ø 750   ø 1000

Acoustic colours

standard   xilence.xal.com/colours

Luminaire colours

standard   xal.com/colours

Light distribution

direct

modular
system

wide range   microprismatic
of colours   (UGR ≤ 19)

design by
13&9

HEX-O

suspended

EN Hexagonal luminaires & acoustic elements, suitable for single or group installation; Acoustic element made of high quality, self-supporting, recycled PET felt with sound absorbing properties; MODULE in the luminaires' dimensions, FLAT with reduced height, ABSORBER to combine with other housings; acoustically effective cavities; absorption and scattering of sound waves; light housing from extruded aluminium profile, seamlessly welded; powder coated; satinised or microprismatic PMMA cover; energy-eff. LEDs - very good colour rendering; incl. feeder cable; canopy for through wiring; pendant fitting with cable suspension; height adjustment without tools; rear rail for alignment (group)

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Order options

MOUNTING ♂

single mounting	2
group mounting	3

ACOUSTIC COLOUR ◪

○ white	W
○ marble grey	D
● felt grey	G
● black	L
🌈 special colours	X

HEX-O MODULE suspended

♲ PET felt | **A** B C D E / α_w 0.90 | 0.85 NRC | 0.88 SAA

TYPE	L·W·H (mm)	ORDER CODE
MODULE 500	500·433·100	073-69♂510◪
MODULE 750	750·650·100	073-69♂610◪
MODULE 1000	1000·866·100	073-69♂710◪
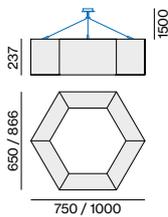
HEX-O MODULE FLAT suspended

♲ PET felt | A B C **D** E / α_w 0.50 | 0.70 NRC | 0.69 SAA

TYPE	L·W·H (mm)	ORDER CODE
MODULE FLAT 750	750·650·40	073-69♂620◪
MODULE FLAT 1000	1000·866·40	073-69♂720◪

HEX-O ABSORBER

♲ PET felt | **A** B C D E / α_w 0.95 | 0.90 NRC | 0.96 SAA

TYPE	L·W·H (mm)	ORDER CODE
ABSORBER 750*	750·650·237	073-691640◪
ABSORBER 1000**	1000·866·237	073-691740◪

*only in combination with HEX-O 500 or MODULE 500
**only in combination with HEX-O 750, MODULE 750 or MODULE FLAT 750

Acoustic data

Equivalent sound absorption area (A_{eq})

TYPE	125	250	500	1000	2000	4000 Hz
MODULE 500	0.09	0.18	0.30	0.32	0.28	0.32
MODULE 750	0.17	0.33	0.57	0.60	0.53	0.60
MODULE 1000	0.27	0.54	0.91	0.97	0.86	0.97
MODULE FLAT 750	0.03	0.10	0.27	0.40	0.50	0.43
MODULE FLAT 1000	0.06	0.17	0.45	0.67	0.84	0.72
ABSORBER 750	0.42	0.61	0.98	0.86	0.84	0.84
ABSORBER 1000	0.57	0.83	1.33	1.17	1.13	1.13

Sound absorption coefficient ($α_p$)

— HEX-O MODULE
-- HEX-O MODULE FLAT
···· HEX-O ABSORBER

Acoustic data
calculations based on
MODULE 750: cavity 1 cm;
FLAT 750: cavity 1 cm;
ABSORB. 1000: cavity 1 cm

Order options

MOUNTING ♂

single mounting	2
group mounting*	3

*order canopy separately

COLOUR TEMPERATURE ⁚⁚

3000 K	5
4000 K	6

CONTROL

DALI-2

LUMINAIRE COLOUR ◪

○ pure white RAL 9010	7
● jet black RAL 9005	8
🌈 special colours*	X

*canopy always in white

LIGHT OPTIC COVER ▢

opal	O
microprismatic (UGR ≤ 19)	P

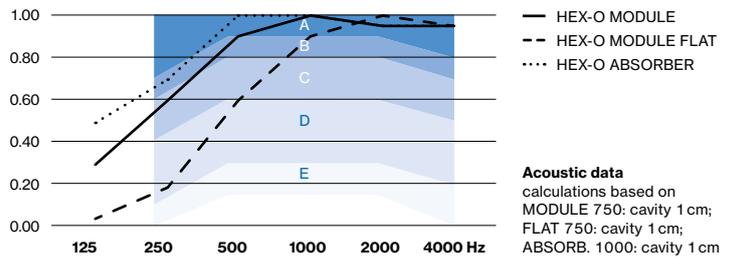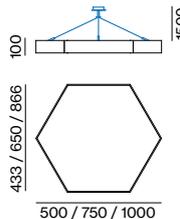**LUMINOUS FLUX** value calculated for
4000 K, colour white, cover microprism.

HEX-O suspended

UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 2 ADDR. | 220-240V | X-PERT | ~ X-PERT

TYPE	SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
500	16.3 W	2290 lm	073-6♂51⁚⁚3◪▢
750	35 W	4960 lm	073-6♂61⁚⁚3◪▢
1000	68 W	9640 lm	073-6♂71⁚⁚3◪▢

CANOPY

TYPE	L (mm)	ORDER CODE
canopy / feeder cable 5 × 1.5 mm²	1500	005-223241◪

only for group mounting; one per group needed; can be placed above luminaires or acoustic
elements for electrical system configuration see luminaire data sheet at xal.com