

PLN GROUP



# HUSH

ACOUSTIC LIGHT COLLECTION

Designed by PLN Group in association with David Trubridge Design Studio



## ABOUT HUSH

### Sssssssshh.....HUSH at work!

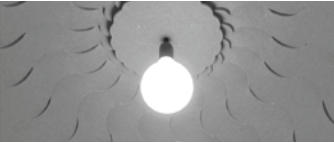
Hush is designed as both a light source and an acoustic device and was developed by Marion Courtillé at David Trubridge Limited (DTL). DTL was commissioned by PLN Group to design an acoustic light based on PLN's extensive market research for their growing design collection. Hush is marketed in North America by David Trubridge Ltd via the exclusive distributor wakaNINE LLC.

There are currently four sizes; Micro, Mini, Round and Oval. All are large enveloping canopies that contain a constellation of LED lights inside the top, except for Micro, which has an E26 bulb. Underneath, sound is muted by the absorbent synthetic felt panels that are made from 100% polyester fibres (including a minimum of 65% post-consumer recycled material) which can be recycled again after easy dismantling.

The material is safe, non-toxic, non-irritant, non-allergic and fire rated to ISO 9705. Although the lights are large they are transported in our trademark kitset form. The interlocking shapes are very easily assembled with minimal connectors and no tools. Hush is licensed to the NZ company PLN Group. The material properties strongly influenced the design of Hush. We explored the use of a weaving technique which interlocks the components in order to reduce the number of fastenings for quick assembly. This system allows for efficient kitset freighting and the overlaps improve the acoustic properties.



# DESIGNS



- Light Source:
- 1x E26 cordset; or
  - 1x GU24 cordset

## MICRO



	width (x)		height (y)		depth (z)		weight	
MICRO	30"	750 mm	14"	350 mm	30"	750 mm	4 lb	1.7 kg



- Light Source:
- 5x LEDs;
  - 1x E26 or GU24 cordset

## MINI



	width (x)		height (y)		depth (z)		weight	
MINI	40"	1000 mm	16"	400 mm	40"	1000 mm	6 lb	2.7 kg



- Light Source:
- 7x LEDs;
  - 1x E26 or GU24 cordset

## ROUND

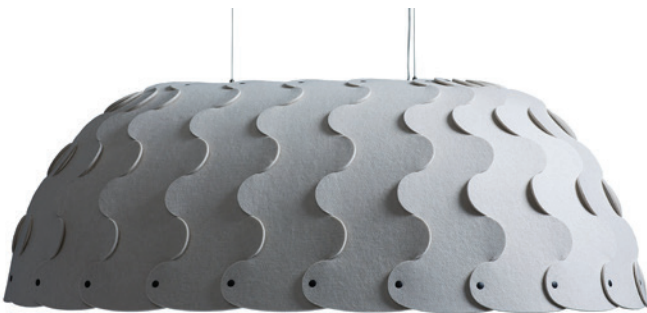


	width (x)		height (y)		depth (z)		weight	
ROUND	55"	1400 mm	26"	650 mm	55"	1400 mm	15.4 lb	7 kg



- Light Source:
- 11x LEDs;
  - 2x E26 or GU24 cordset

## OVAL



	width (x)		height (y)		depth (z)		weight	
OVAL	79"	2000 mm	26"	650 mm	55"	1400 mm	24.2 lb	11 kg

# TECHNICAL SPECS

## MICRO



## MINI



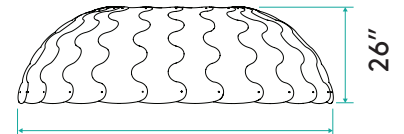
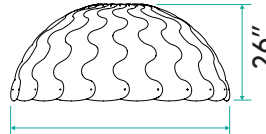
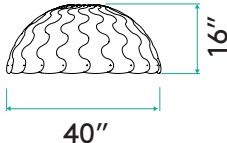
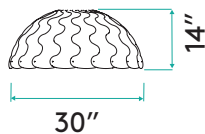
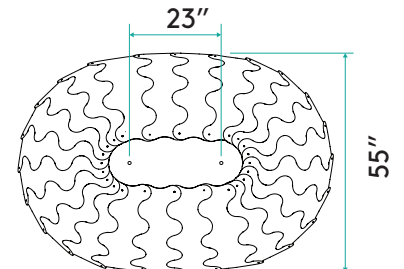
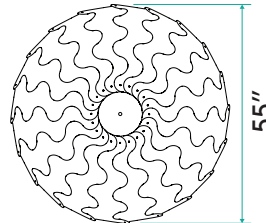
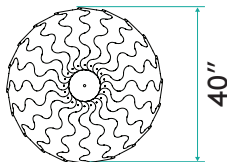
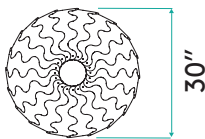
## ROUND



## OVAL



### Dimensions



### About

Designed by PLN Group in association with David Trubridge Design Studio. Hush is a light, an intimate space, and an acoustic device. Hung over a meeting table, over work spaces, or over spaces in which to gather for a quiet discussion Hush is ideal for defining soft spaces. The material is a lightweight, semi-rigid acoustic panel which softens sound and reduces reverberations. Manufactured from 6mm thick panels of 100% polyester fibers (including 65% post-consumer recycled material) the material is safe, non-toxic, non-irritant and non-allergic. Available with or without LED lights. Hush can ship as a kit-set if required.

### Specifications



**Intertek**  
5002985

Conforms to UL STD 1598  
Certified to CSA Std C22.2  
No. 250.0

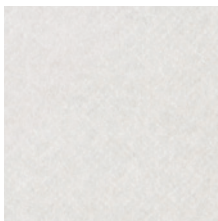
- Kitset (Self Assembly Required - installation instructions supplied)
- Box dimensions: 44" x 20" x 5.5"
- Net weight: Micro 4 lbs, Mini 6.6 lbs, Round 14.5 lbs; Oval 25.5 lbs
- Lamping options:
  - LEDs: integrated, replaceable, energy efficient LEDs 3000 Kelvin and driver.
    - Mini: 5x LEDs, CRI 80-85, 16.8W, 510 lumens
    - Round: 7x LEDs, CRI 80-85, 16.8W, 714 lumens
    - Oval: 11x LEDs, CRI 80-85, 25.2W, 1122 lumens
  - E26 cordset (Micro 1x, Mini 1x, Round 1x, Oval 2x) suggest frosted G40 bulb / max 100W
  - GU24 cordset (Micro 1x, Mini 1x, Round 1x, Oval 2x)

- Available in seventeen color options (see color guide)
- Supplied with 3.28' of electrical cord
- Supplied with steel cable hanging wire and cone grip attachments
- Made from 6mm 100% polyester, without chemical binders
- Manufactured in New Zealand under a certified environmental management system
- Manufactured using a minimum of 65% post-consumer recycled material (pet bottle-flake)
- Acoustic performance: nrc value of 0.89 At 2000hz
- Safe, non-toxic, non-irritant and non-allergenic
- Polyester has been tested and classified as low

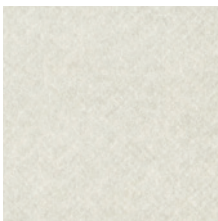
# COLOR SWATCHES

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The Hush lights are available in 16 colors. These swatches are to be used as a guide only, please refer to a product sample for true color reference.



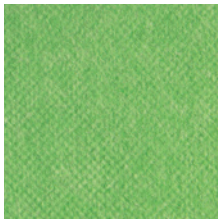
Savoye



Opera



Acros



Bosco



Zenith



Ironbank



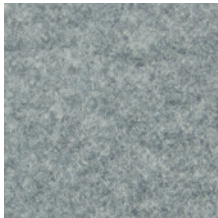
Falling Water



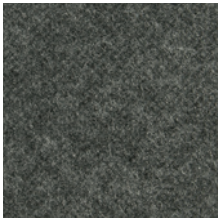
Pinnacle



Senado



Flatiron



Empire



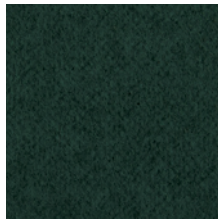
Petronas



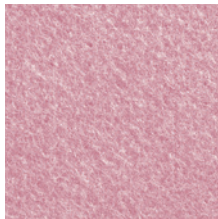
Galaxy



Lotus



Treehouse



Rosada

# ACOUSTIC REPORT

The tests described in this report were conducted on the 27th of August, 2014. The tests were performed at the request of PLN Group to determine the equivalent sound absorption area of a sample of Hush Light Round. The tests were carried out following the interrupted noise technique outlined in ISO 354: 2003 Acoustics -- Measurement of sound absorption in a reverberation room. The tests were carried out in the reverberation room of the Department of Mechanical Engineering, University of Canterbury, New Zealand.

Equivalent sound absorption area of the Hush Light Round

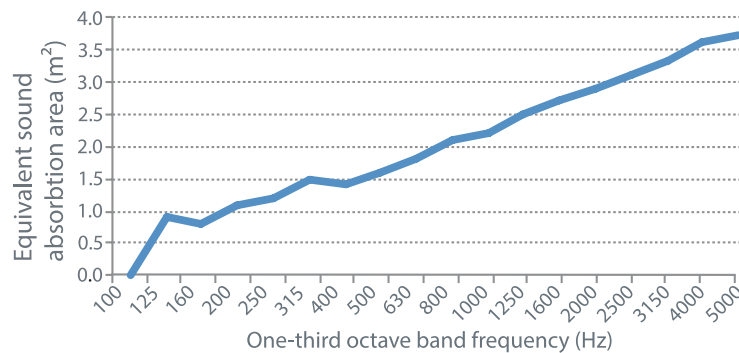


TABLE 1: Test room reverberation times and equivalent absorption area of Hush Light Round.

1/3 Octave band centre frequency (Hz)	Average RT's for empty room T60 empty (s)	Average RT's for room with sample T60	Equivalent sound absorption area A obj (sq ft)	95% Confidence interval for Aobj
100	6.254	6.382	0.0	0.74
125	6.206	5.377	9.69	0.48
160	7.643	6.516	8.61	0.16
200	8.065	6.503	11.84	0.20
250	8.503	6.601	12.92	0.10
315	9.102	6.580	16.15	0.23
400	8.172	6.173	15.07	0.09
500	7.637	5.643	17.22	0.20
630	6.706	5.037	19.38	0.15
800	6.369	4.617	22.6	0.21
1000	5.999	4.369	23.68	0.14
1250	5.343	3.899	26.91	0.23
1600	4.556	3.398	29.06	0.14
2000	4.243	3.161	31.22	0.16
2500	3.959	2.931	33.37	0.16
3150	3.476	2.625	35.52	0.20
4000	2.959	2.279	38.75	0.13
5000	2.409	1.930	39.83	0.35

Full acoustic test report available on request.

# MATERIAL DATA SHEET

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Hush is made from .25" thick 100% polyester and manufactured in New Zealand Australia under Autex's ISO 14001 certified Environmental Management System. Containing a minimum of 65% post-consumer recycled material (PET bottle-flake); it is completely safe, non-toxic, non-allergenic and non-irritant.

## Fire Ratings (Conducted on 12mm) ISO 9705: 1993

Classification: Group 1-S  
Smoke Production Rate: <5.0m<sup>2</sup>/s  
As required by NZBC C/VM2  
AS ISO 9705 - 2003  
Classification: Group 1  
(SMOGR<sub>Arc</sub>): <100m<sup>2</sup>/s  
As required by BCA C1.10  
FI 4974 dated 16th September, 2012  
EN13501-1:2007+A1:2009  
B - s1, d2

## VOC Emissions

Autex polyester has been tested by Cetec Pty Ltd (Report: CV080408) for chemical emission and is classified as low VOC.  
VOC concentration: 0.01 mg/m<sup>3</sup>

## Moisture Absorption

Polyester fibre when exposed to an atmosphere of 122°F at 90% relative humidity for four days showed moisture absorption of less than 0.03% by weight. Polyester is not affected by moisture, mould or mildew and will not rot or deteriorate in intended use situations.

## Fabric Care

Blot spills from fabric quickly. Wipe with a damp cloth. Avoid rubbing and excessive amounts of water as this will affect the finish. Use carpet or upholstery shampoo as directed. Blot with a clean dry cloth after each application of solution. Custom printed

material requires the services of a specialist cleaning company.

## Pattern Repeat

Non-woven. No pattern repeat but product has directional grain. Product may vary from samples and batch to batch due to fibre blending and lay-up which is an inherent feature of this product.

## Impact Resistance

Autex polyester has been tested for impact resistance to EN13964:2004 and meets the criteria of Class 1A; not adversely effected at impact velocities over 16.5m/s.

## Environmental

Autex is committed to best practice through our ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems.

Contains a minimum of 65% previously recycled polyester fibre (from PET bottleflake) ensuring comparatively low embodied energy. Off-cuts and manufacturing waste is re-used or recycled wherever possible. Uncontaminated material can be recycled.

Manufactured from 100% polyester fibres and does not contain formaldehyde binders. Autex polyester fibres support safer indoor air quality and will not become a potential





For more information or to order please contact:

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