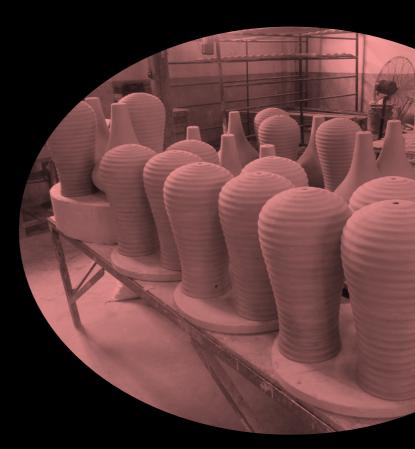




## Lighting Manufacturing



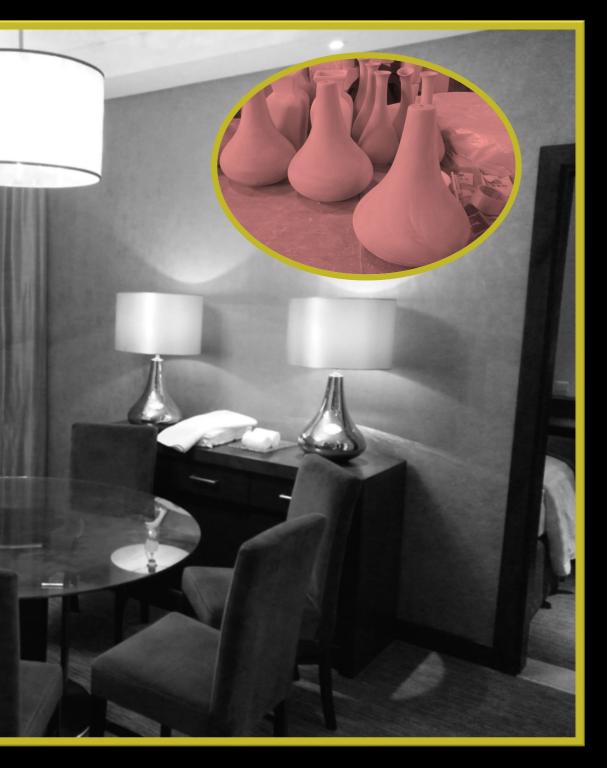
















BLOB LAMP Alabaster H.510mm/201/4″ 16" Bongo Opal velvet shade H.805mm/313/4"







BLOB LAMP Tuxedo H.510mm/201/4″ 16" Bongo Petrol satin shade H.805mm/313/4″





At Porta Romana, we strive for perfection in every aspect of our designs, and that includes our Gold Standard lampshades – from the gauge of the wire to the position of the wattage label, our attention to detail means a Porta Romana lampshade is second to none.

Our silks, satins, linens and velvets are developed alongside the craftsmen and women who weave them, the transparencies of our linings have been created purposefully to give the right glow when our shades are lit, the seams of our shades are beautifully stitched and our packaging has been redesigned to ensure environmental harmony, and ease of unpacking. The ambition to create perfection is in our DNA, we want you to love what we do.

#### LAMPSHADE GUIDE





COLOGNE LAMP Cayenne with Decayed Gold Collar H.220mm/8 3/4" 16" Straight Oval Natural linen shade H.490mm/191/2"

THORN BOWL Olive D.395mm/153/4″ H.267mm/101/2

THORN VASE Olive D.252mm/10" H.476mm/183/4







COLOGNE LAMP Fawn with Decayed Gold Collar H.220mm/8 3/4" 16" Straight Oval Pine velvet shade H.490mm/191/2"





### MANUFACTURING







Thread Lamp Amber GLB32



Blob Lamp TurquoiseG



Chianti Lamp Bronze with Nickel base GLB13



Rockefeller Lamp Mayan Gold with Slate base SLB50









Decayed Gold SLB47S

# LIGHTING

### has always been the driving force

ABK recognise that well unique lighting products can enhance and transform an interior design scheme. An knowledge of various client market sectors shape initial design concepts which then become sketches, technical drawings, 3D renderings and prototypes – all produced in our factory with highest levels

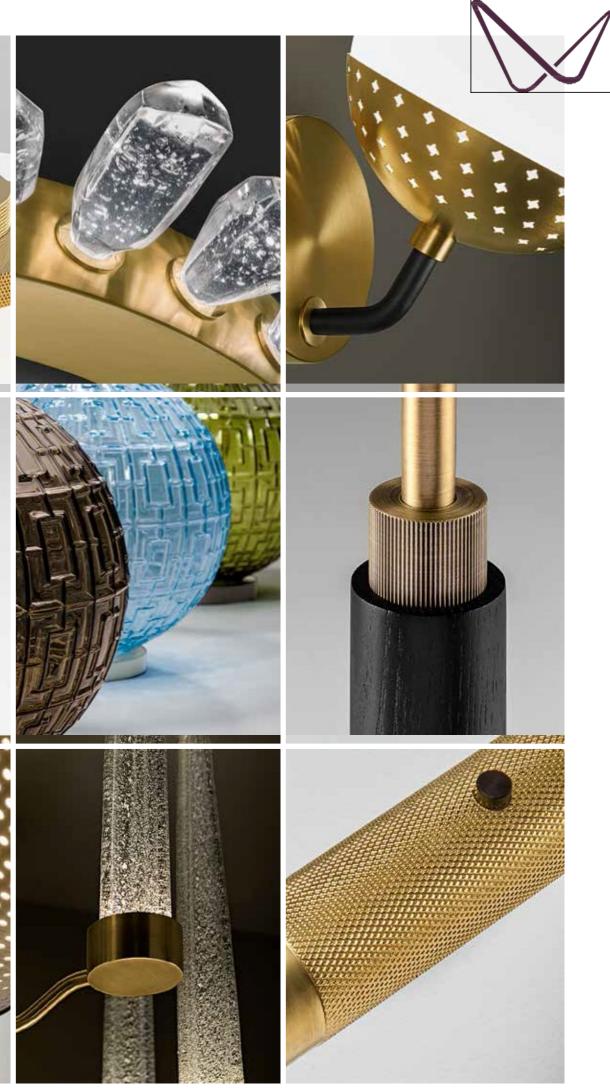
"There is no limitation to our aspirations when it comes to developing bespoke light fittings with the abk design team. Their " Can Do" approach combined with great manufacturing knowledge and attention to detail allows us to create unique fittings for our projects confident that commercial standards, efficiencies and budgets are met."







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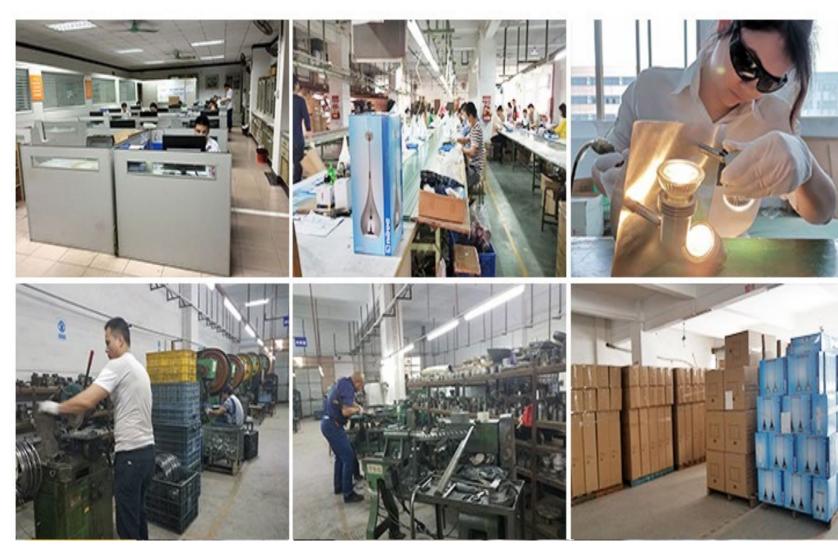


### A wide scope of

# MANUFACTURING skills and capabilities

abk are experts at manufacturing all kinds of lighting for both high volume production , abk are able to produse manufacturing techniques with and aesthetic design know-how to come up with eye catching, high quality products at suitable prices for the market.

At their production facilities in China, quality management is paramount to (abk) success so whether it be basic metal working with steel and aluminium, casting brass, plating and painting, turning wood, mouth blowing glass or modelling ceramic moulds, abk focus is always on creating the best possible product for their customers. "We have worked with Chelsom on a number of hotel projects including Crown plaza dahran and almadena in saudia arabia, they are our first port of call when it comes to lighting. our capacity to deliver on a projects, combined with their knowledge, technical capabilities and flexibility means that they are always able to surpass our expectations whilst working within budgets."





Installation process01



Installation process04



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Installation process02



Installation process03



Installation process05



Installation process06

### Manufacturers of

# BESPOKE one-off statement pieces or multi-unit production runs

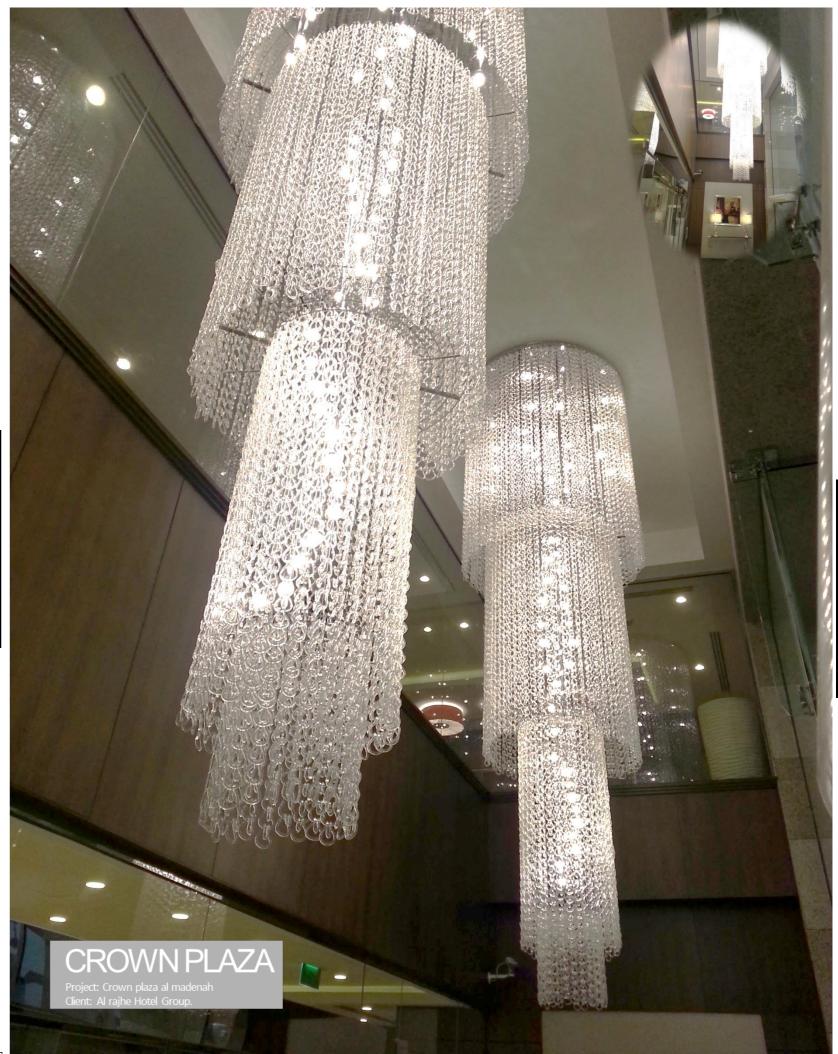
ABK expertise in manufacturing beautiful and elegant lighting collections in-house extends to a huge variety of bespoke products. Renowned for their flexibility, technical capabilities and ability to work collaboratively with some of the world's leading designers, ABK have the skills to enhance any interior scheme

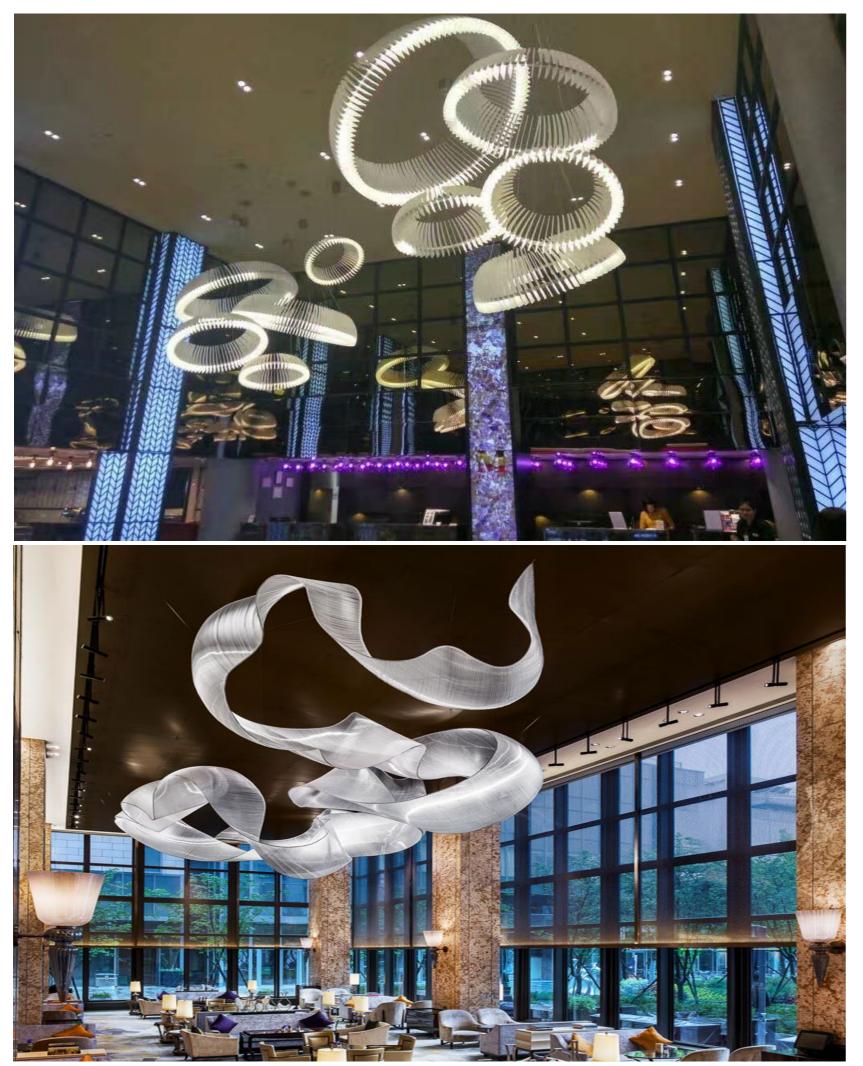
by taking a client's vision, adding technology and value engineering and making it a reality.

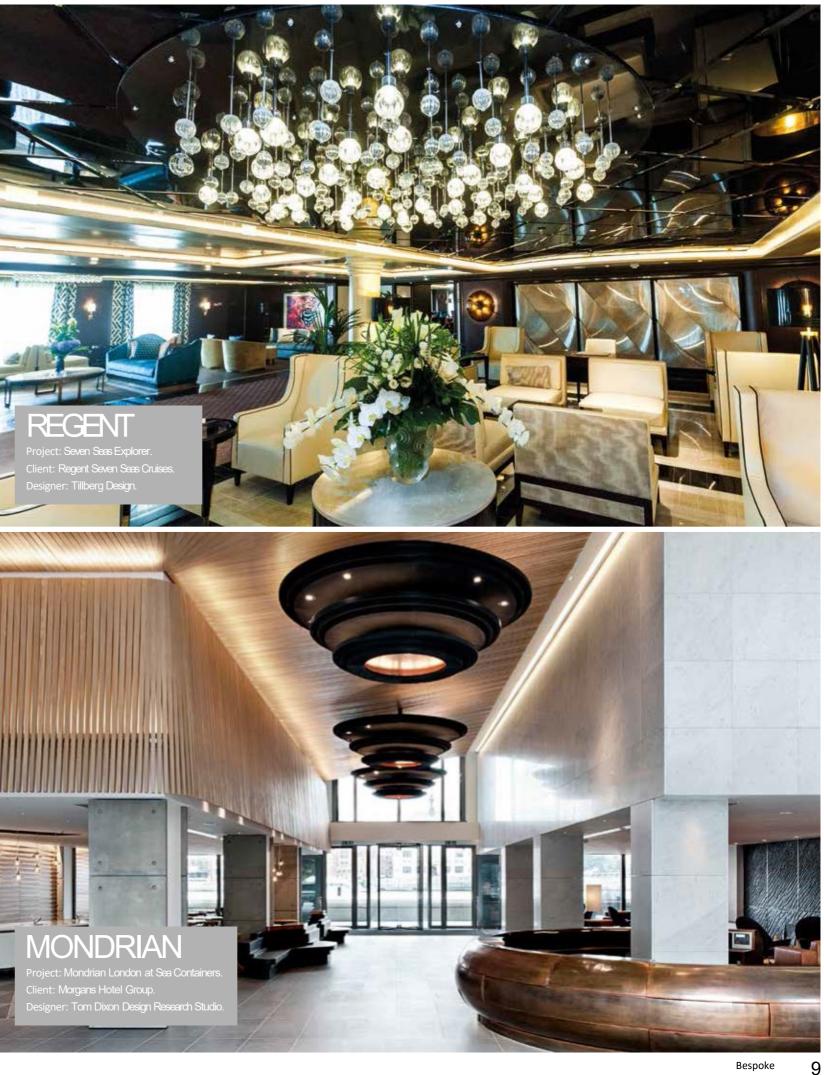
Whether a one-off central public area feature light or a long production run, ABK produce 3D technical drawings and renderings to give clients full confidence in their concepts before producing prototypes and final manufacturing runs.

you can depend on (abk) for a quality product, timely delivery and with the end result being a satisfied client, it makes our efforts worthwhile."



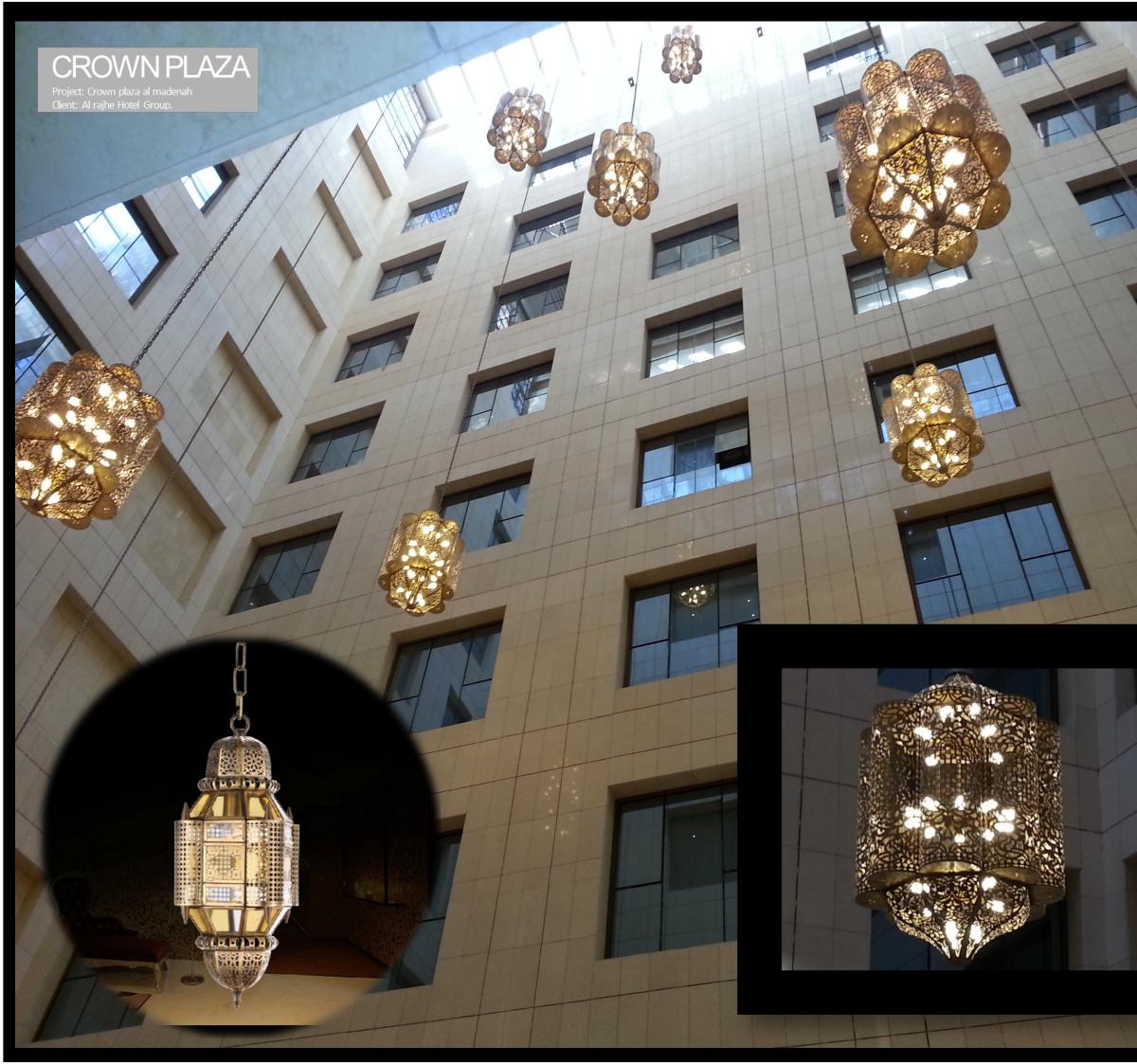




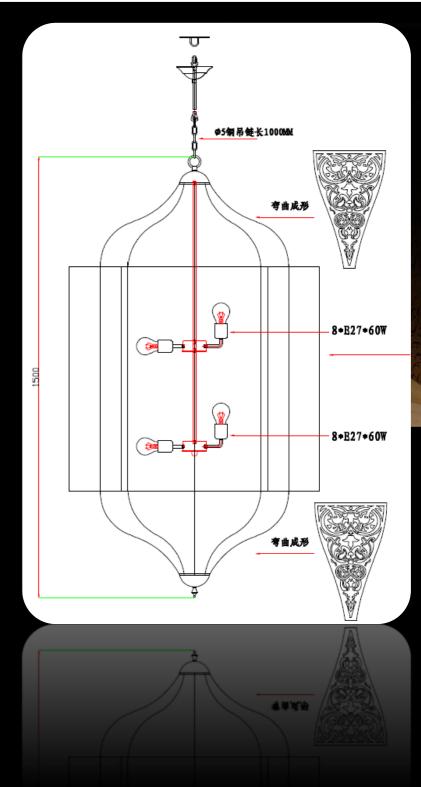


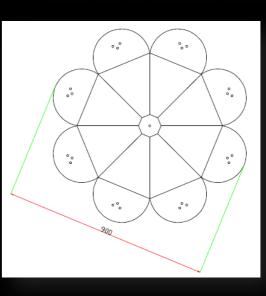


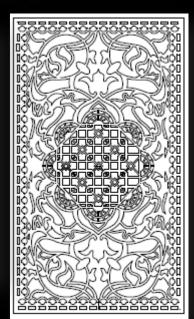














### Lighting supply partner to the

# HOSPITALITY market worldwide

we have the experience in hospitality lighting, (abk) extensive market knowledge means they offer one of the best hotel lighting prices in . With the hospitality sector in mind at concept stage, high quality, low energy.

abk work collaboratively with hotel operators, interior designers, procurement groups and contractors making them a fundamental part of the team responsible for bringing projects to a successful conclusion. By understanding lead time requirements, budget constraints and having wide experience in onsite engineering, abk truly are experts in this specialist field.



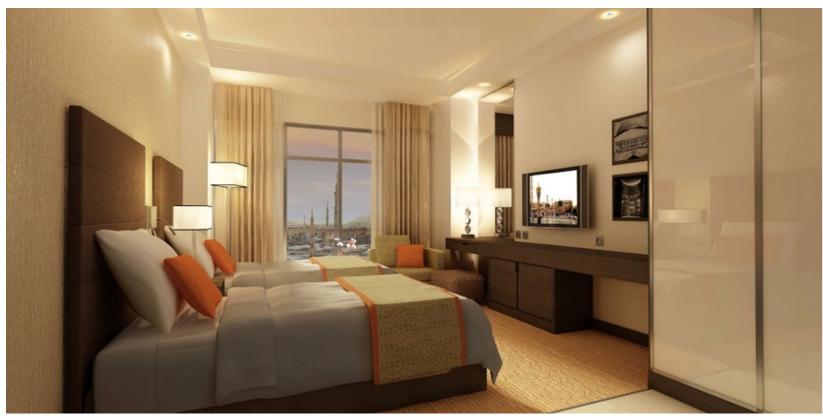














"What amazing service! Your technical quality and capabilities are the best I've seen.















## Designing unique lighting for BARSAND RESTAURANTS

### around the world

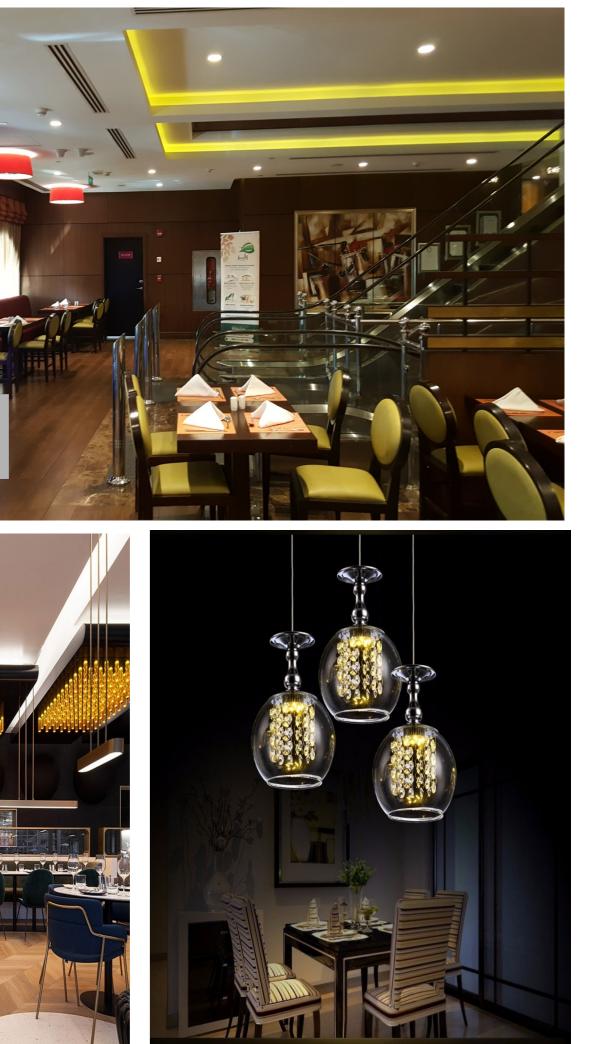
Great restaurants are defined by their ambience and the right ambience is created by good lighting. Indeed well designed decorative wall and ceiling lighting will often form the centrepiece of bar or restaurant interior schemes. abk offer many such collections within the standard range or will work closely with interior designers to bring their custom lighting concepts to life "abk level of expertise makes working together an absolute joy. Whether it is the way in which they take our designs and translate them into considered and beautifully manufactured products or their ability to come up with seamless solutions for manufacture, installation or maintenance."







14

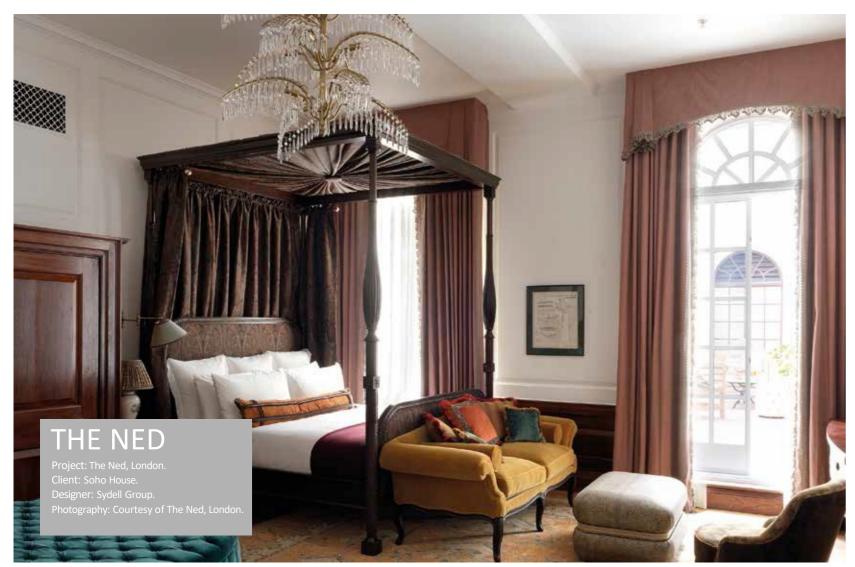


### Experts in

## CLASSICAL LIGHTING

abk are experts in manufatory all traditional lighting styles. With the capacity to create a wide range of high-quality traditional lighting products, abk broad manufacturing capabilities incorporate the very best materials and finishes to ensure they are truly sympathetic to period and classical styles. Whether for an original heritage building or to add a more classical twist within a contemporary project, abk has the knowledge and expertise to meet your classical lighting requirements.









#### THE SAVOY

Project: The Savoy, London. Client: Fairmont Hotels. Designer: Pierre-Yves Rochon & Reardon Smith Architects.

### Masters in the

### RESTORATION of period lighting





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## Expertise in the latest TECHNOLOGY

### for hospitality and marine lighting

Whereas aesthetics has primarily driven the pace of change in decorative lighting designs over the years, rapidly advancing technology has become equally important in ensuring specifiers are working with the most up to date products.abk operate rigorous testing procedures to select the best performing LEDs and work only with the most reputable LED chip and retrofit lamp manufacturers. When testing and selecting LED chips, the following criteria are considered:

Evaluation of latest technology to give increased lumen performance Minimum lifetime operating cost for the end user LED chip performance over its entire lifeOptimum light effect considering wattage and colour temperature

At abk factories in the China, continual investment means the latest manufacturing and testing equipment drives on the quality of the product. Inhouse photometric testing guarantees colour













### DIMMING

To ensure optimum ambience within any interior scheme, light levels should be controllable through dimming systems. Dimmable lamps can be operated from rotary dimmer switches within the product itself or from remote wall-mounted control panels. There exists an extremely wide range of lamp dimming protocols but the crucial issue is ensuring compatibility between lamp type, control gear and the dimmer itself.

### LAMPS

#### Retrofit LED

Lamp technology has developed possibly faster in the last 10 years than at any time since Thomas Edison invented his first electric light bulb. abk constantly embrace the latest developments to ensure the hospitality and marine markets work with the most energy efficient and aesthetically pleasing light sources. Today's lamps use 90% less energy than old incandescents, last up to 25 times longer, give off almost no heat and significantly reduce maintenance costs. The latest retrofit lamps from abk have almost 360° light output and a 2700K warm white colour temperature with instant start and good dimmability, compatible with both leading and trailing edge phase dimming controls.





Incandescent	Halogen
60W	46W
1000 Hrs	2000 Hrs
2700K	2700K
600 Lumens	630 Lumens

Estimated information for comparison only





There are two types of mains dimming leading edge and trailing edge. As perhaps the longest established of the dimming protocols, there is the widest variety of control gear and dimmers existing in the marketplace. Consequently, ensuring compatibility with the latest light sources is essential and the Chelsom Technical team is available to offer support. Connected to mains cable only, this is a simple system to install for the contractor. 1-10V Dimming

1-10V dimming (also known as 0-10V dimming) is an analogue dimming method which requires both mans power and signal wires between the 1-10V dimmer and the

#### DALI Dimming

DALI dimming is a digital programmable system, usually installed in large commercial properties. The system allows the control of individu

mains power and signal wires between DALI dimmer and compatible driver.



E27 Filament Squirrel Cage

Copy

PLEASE CONSULT CHELSOM FOR EXPERT ADVICE ON ALL YOUR DIMMING REQUIREMENTS.



Compact Fluorescent
15W
6000 Hrs
2700K
900 Lumens



First Generation I	ED
12W	
15,000 Hrs	
2700K	
806 Lumens	



Latest LED
7W
25,000 Hrs
2700K
810 Lumens



E27 Filament Globe



E27 Filament Cigar



E27 Filament Small Cigar



E14 Filament Golf Ball

### GUESTROOM & BATHROOM





LED Groove

108 LED Classic





120 Crane Desk Canopy

121 Motion



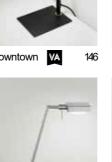
















48 Washington

64 Boston

82 Park

94

Direct

Lunar

Shaftesbury

Seed Glass

Manhattan

Å



51 Rock

35 Roma 38 Radar

54 Rock



56 Tokyo

70 Metro



74 Saucer

89 Biblio

40 Capri



42 Madison

77 Balance 80

62



90 Townhouse

92

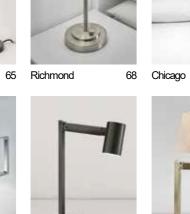








105 LED Knurl



84 Swing Reading 86 Swing Brass



95



LED Dock LED Revolution 96



88 Swing Chrome





LED Dock 104 LED Hotel

Broadway







Angle VA









### **GUESTROOM & BATHROOM**







122 Charging



123 Traveller







Desk Hub Cap

126 Piazza



Berlin

127

140 Adjust

128



132 Crossover



134 Scroll





148 Weekend VA



160 Bathroom Mirror 162





Guest VA



Bathroom Deluxe 164 Bathroom Deluxe 165 Bathroom

142



Project VA

152





3

### LUNAR

Materials: Steel, stone and glass.

Finishes: Brushed Brass (BRB) with Natural stone and Opal glass – see overleaf for alternative finish, Satin Black (BL) with Grey stone and Smoke glass.



Features: Stone heavy bases and backplates sit within curved metal surrounds and glass globes are secured with threaded metal rings to ensure safety and durability. Wall lights can be fitted as up or down lights.



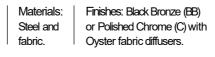




150

Finishes: Satin Black (BL) with Grey stone Materials: and Smoke glass. See previous pages for alternative finish - Brushed Brass (BRB) Steel, stone and glass. with Natural stone and Opal glass.

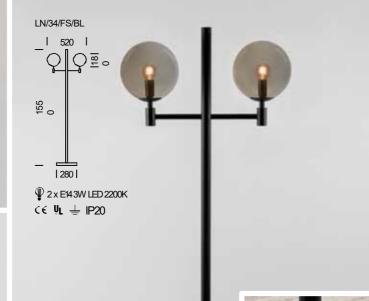
Features: Stone heavy bases and backplates sit within curved metal surrounds and glass globes are secured with threaded metal rings to ensure safety and durability. Wall lights can be fitted as up or down lights. THE RANGE IN THIS FINISH OPTION ISPRICED WITH AND COME'S COMPLETE WITH LAMPS AS SHOWN.











LN/34/WW/BL

 $\boldsymbol{\epsilon} \in \boldsymbol{\mathbb{V}}_{\mathsf{L}} \doteq \mathsf{IP20}$ 

O = ⊮O |150| |195|

1x E143W LED 2200K <€ ŸL ≟ IP20

Features: Rectangular metal frame shades with Oyster fabric diffusers are surrounded with an asymmetrically positioned square tube feature. Table lamps have knurled rotary dimmer switches. See overleaf for matching wall and floor lamps.



CHELSEA
---------

Finishes: Black Bronze (BB) Materials: Steel and or Polished Chrome (C) with fabric. Oyster fabric diffusers.

Features: Rectangular metal frame shades with Oyster fabric diffusers are surrounded with an asymmetrically positioned square tube feature. Wall lights can be vertically or horizontally mounted and there is an option with an additional switched LED reading light. See previous page for matching table lamps.











### ROMA

Finish: Golden Material: Bronze with Steel. Satin Black.



Features: Tapered perforated metal shades with internal PVC Opal diffusers give a dramatic and softly diffused light effect. The table lamp has a directional shade and integral push switch in the base.

### ROMA





Material: Finish: Steel. English

English Brass with Satin Black. Features: Shallow perforated metal coolie shades are supported by detailed knurled lampholder covers and contain LED squirrel cage filament lamps. RA/4/DL and RA/5/W1 have directional heads and the table lamp has a knurled rotary dimmer switch. RA/4/W1 can be ceiling mounted. THE RANGE IS PRICED WITH AND COMES COMPLETE WITH LAMPS AS SHOWN.



년 |180| 🖗 1x E27 3W LED 2200K 〠UL ± IP20

RA/4/DL

55 0



RADAR





right 2018 Che

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<€≟ IP20 (For UL please enquire.)







Features: Heavily ribbed Opal glass shades are secured with metal threads onto knurled decorative double-stepped caps. The table lamp has a rotary dimmer switch and wall lights can be installed as up or downlighters. Light sources are integral dimmable warm white LED. See overleaf for matching ceiling fittings.





Finishes: Brushed Brass Materials: Steel and (BRB) or Black Bronze (BB) glass. with frosted Opal glass.

Features: Heavily ribbed Opal glass shades are secured onto knurled decorative double-stepped caps. Light sources are dimmable. CP/24/P has a fixed suspension rod which can divide into three connectable parts (250mm, 400mm or 600mm). See previous pages for matching table and wall lights.





CP/24/FF/BB
155 I I
250 7 0
LED 8W 2700K <€ ≟ IP20
(For UL please enquire.)

ЕĞ

Steel. Bronze with



MADISON
---------

MD/8/W2 with optional shade QMD/2/BG

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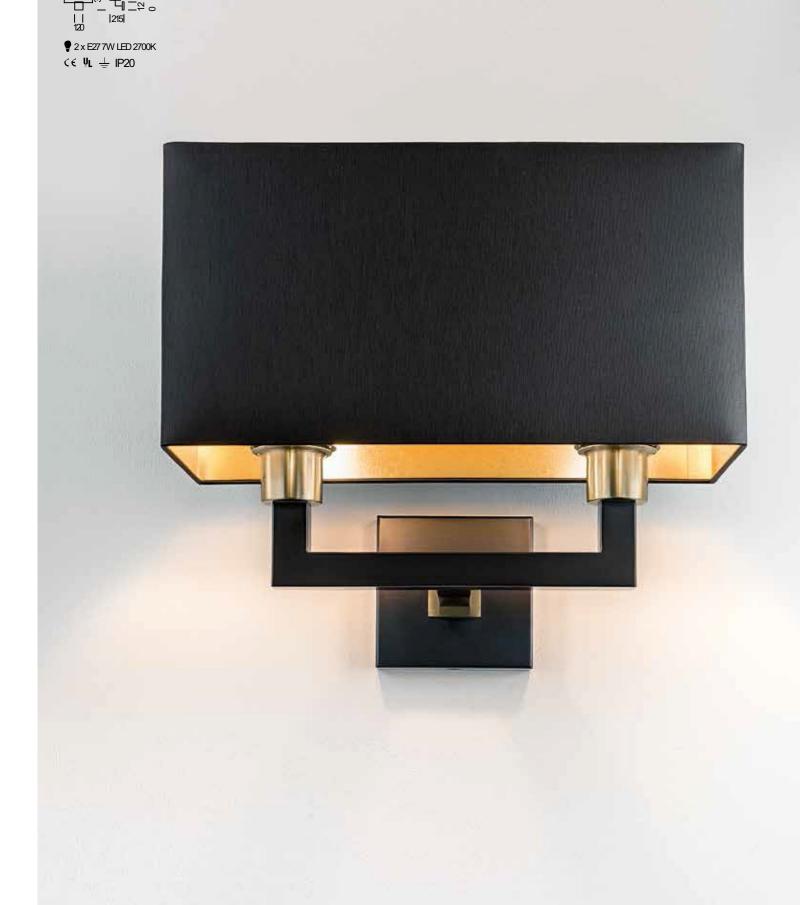
385

Material: Steel.

Finish: Black | Features: Substantial square section arms support twin lamps for double Bronze with English Brass. wall light and floor lamp.

Outer rectangular or square shade options include Smoke transparent (SM) or Black chintz with Champagne Gold liner (BG) - with other options shown at back of catalogue. Inner cylinder shades are in Natural Parchment (NP). Decorative filament lamps can be used in place of inner shades. Black Bronze metalwork has contrasting accents in English Brass.





### MADISON



100 | |

(with brass for Brass (BB/EBR). See overleaf for Polished Chrome (C) option.

Materials: Steel | Finishes: Black Bronze with English | Features: A double arm design with wall and table options shown here plus a floor lamp and single wall light shown overleaf. All models have a central knurled section and the table lamp is operated by a rotary dimmer switch.



Project: SHAFTESBURY at The Grand Hotel, Lytham St. Annes. Designer: In-house Design Team.

10.00

in the second

### SHAFTESBURY

brass for ⊞Rfinish. See previous pages).

Black Bronze with English Brass (BB/EBR) – see previous pages.

wall light and other options shown on the previous pages. All models have a detailed central knurled section.





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### WASHINGTON

### WASHINGTON

Materials:Finish: BlackFeatures: Washington models feature knurled detailed centreSteel andBronze with Englishsections in the heavy upright columns. Further colour accents are<br/>provided by oversized contrasting washers on the bases or backplate.



### WASHINGTON





Project: ROCK at Hilton Diagonal Mar Barcelona. Designer: The Hickson Design Partnership Ltd. 

 Materials:
 Finish: Black Bronze

 Steel and
 metalwork with English Brass

 natural stone.
 accents and natural stone.

A-4-3



Features: Shade swivels and adjusts. Refined curved column sits on an angled plinth and heavy natural stone block ensuring good stability. See overleaf for more designs.





Steel with<br/>natural stone.Bronze metalwork<br/>with natural stone.sit on square detailed plates and heavy natural<br/>stone cubes ensuring good stability.

# ROCK



TOKYO

Materials:Finish: BrushedSteel andBrass and Smokeglass.seed glass.

Features: Smoke seed glass globes enclose warm white LED filament lamps. The pendant has an optional Oyster fabric inner shade and is supplied with a fixed suspension rod which can divide into three connectable parts (250mm, 400mm, or 600mm). THE RANGE IS PRICED WITH AND COVIES COMPLETE WITH LAMPS AS SHOWN.



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# TOKYO

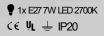


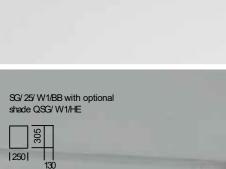


Materials:Finishes: Black Bronze (BB) withSteel andClear seed glass. See overleafglass.for Polished Chrome (C) option.

Features: Thick, Clear seed glass outer shades are capped top and bottom with metal channels and feature random bubbles which pick up the glow of light from internal Hemp shades (see back of catalogue for alternative shade fabrics). Pendant SG/25/P/BB is supplied with a fixed suspension rod which can divide into three parts (250mm long, 400mm long, 600mm long) allowing various overall drops.







### SEED GLASS

Clear seed glass. See previous page for Black Bronze (BB) option. Steel and glass.

pick up the glow of light from internal Oyster shades (see back of catalogue for alternative shade fabrics). SG/25/P/C is supplied with a fixed suspension rod (see previous page).



for EBRfinish). Polished Chrome (C). Project: BOSTON at ABode Glasgow. Designer: 10 Design. BO/22/TL/BB/EBR with optional shade Q22/TL/ST

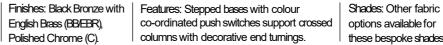
200 | 400 |

<€ ŸL ≟ IP20

1x E27 7W LED 2700K

Materials:

Steel (with brass English Brass (BB/EBR),



Shades: Other fabric See following pages these bespoke shades. | and floor lamps.

for matching wall

# BOSTON



# BOSTON

Materials: Steel (with brass English Brass (BB/EBR), for ⊞Rfinish). Polished Chrome (C).



: 2018

Copy

Finishes: Black Bronze with | Features: Stepped floor standard | bases support crossed columns with decorative end turnings.

Shades: Other fabric options available for these bespoke shades.

See previous page for matching table lamps.

# BOSTON



# RICHMOND

Materials: Steel and fabric.

Finishes: Brushed Brass (BRB) or

RI/23/FS/BRB

145 0

- <u>-</u> | 300 |

LED 8W 2700K

 $\zeta \in \underline{-}$  IP20 (For UL please enquire.)

| 500 | 



Š Copyright 2018 C Ltd

Features: Internal integral LED light sources allow very shallow shades for unique proportions and excellent diffused light distribution. The range is complete with off white fabric shades secured on top with Brushed Nickel (BN). decorative grooved discs. Table and floor lamps include dimmer switches (wall light dimmable remotely).

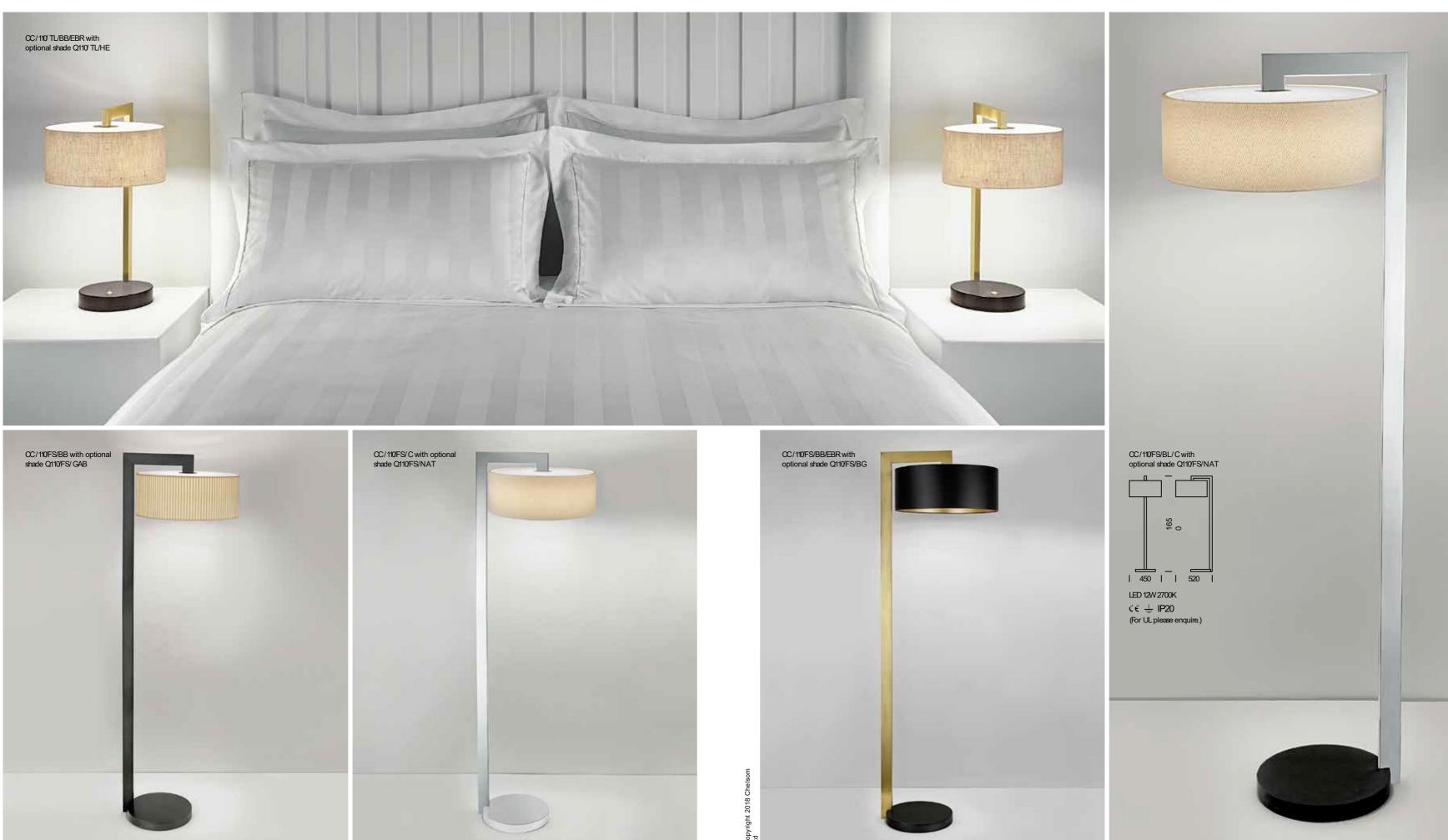
# RICHMOND





Finishes: Black Bronze (BB), Polished Materials: Steel (with brass for ⊞Rfinish) Chrome (C), Satin Black and Chrome (BL/C), Black Bronze with English Brass (BB/EBR). with acrylic diffuser.

Features: A Deco inspired collection featuring rectangular section tube which joins the circular base with a stepped detail. Shallow bespoke shades with bottom fabric diffusers and integral LED light source are supported from above and surround Opal acrylic top diffusers.





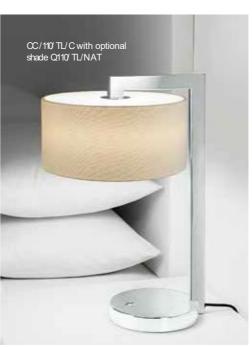


See following page for matching wall lights and table lamps.

# CHICAGO

brass for ⊞Rfinish) with acrylic diffuser. Features: A Deco inspired collection featuring rectangular section tube which joins the circular base or backplate with a stepped detail. Shallow bespoke shades with integral LED light source are supported from above and surround Opal acrylic top diffusers. Table lamps have colour co-ordinated push switches in the base.

Satin Black and Chrome (BL/C), Black Bronze with English Brass (BB/EBR).



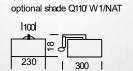








CC/110/W1/BB/EBR with optional shade Q110/W1/BG



LED 6W 2700K C € ≟ IP20 (For UL pleæe enquire.)

CC/110/W1/BL/C with



CC/110/W1/BB with optional shade Q110/W1/GAB



CC/110/W1/Cwith optional shade Q110/W1/NAT



### CHICAGO





Materials: Steel with acrylic diffuser.

Features: A collection of wall, desk and floor lighting featuring a double cone head with decorative slots to allow light spill. Various colour finishes are available and warm white integral LED light emits through frosted acrylic diffusers. Arm for MT/13/W1A slides up and down, rotates, adjusts with locking key and the head swivels. Finishes: Black Bronze (BB), Satin Black with Polished Chrome (BL/C), Ivory with Polished Chrome (IV/C).

floor lamps.













brass for ⊞Rfinish) with acrylic diffuser.

Finishes: Black Bronze (BB), Black Bronze with English Brass (BB/EBR), Satin Black with Chrome (BL/C) and Polished Chrome (C). Black Bronze with Satin Copper (BB/COP SAT), White with Gold (W/GO) and other custom finishes for minimum 50 pieces.

integral LED light. Pendants are suspended on clear cable and have colour co-ordinated ceiling plates. Wall lamps have integral toggle switches.



page for matching desk lamps.



Features: A range of multi-directional bedside or desk reading lights. Arm positions adjust at two separate points secured by locking keys. Heads are held in a stirrup mechanism for adjustment. Metal shades are painted White inside for extra light output. The wall light has a rocker switch on the backplate.



### BALANCE



## MANHATTAN

Materials: Steel with acrylic diffuser.

Finishes: Satin Black with Brushed Brass (BL/BRB) and Satin Black with Polished Chrome (BL/C). Table and wall lights have combination finishes, pendants are in single finishes. MH/2/W1/EBR is in English Brass finish to special order for minimum 50 pieces. Features: Table and wall lights have fully directional heads moving up/down and rotating left/right. Wall light has colour co-ordinated on/off push switch and table lamp has knurled rotary dimmer switch. Cable is black silk-covered.

201





# MANHATTAN

PARK



Features: Sleek swivel arm action allows 270° rotation or shade can be 'parked' within the top framework. Shades have detailed Opal acrylic top diffuser. Neat when 'parked', the shades give a wide arc of light when extended. For floor and table, the cable exits above the slim flat bases.

Materials:

Steel with

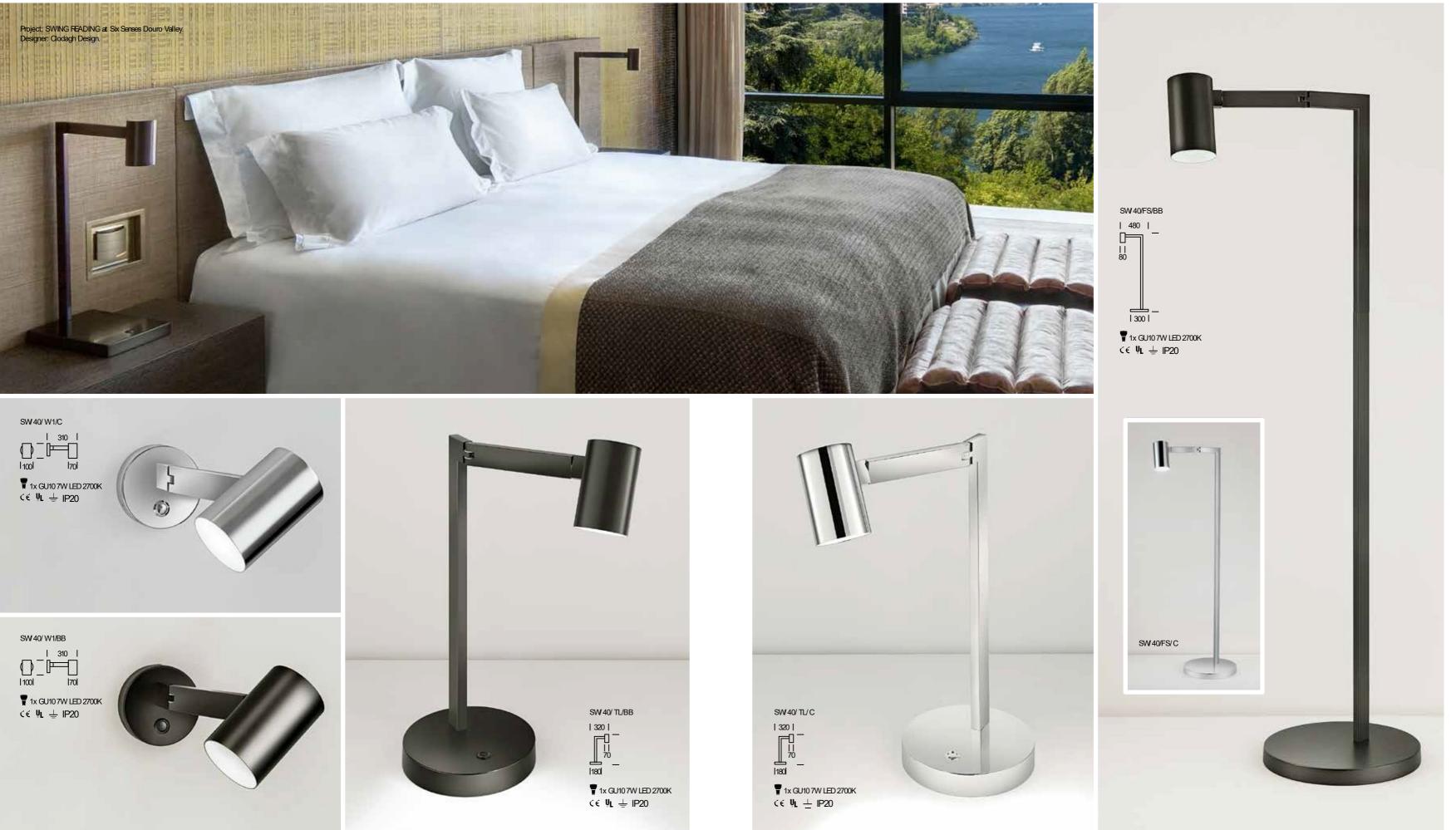
Finishes: Black

Bronze (BB) or





Material: Chrome (C) or Steel.





Finishes: Polished | Features: Robust detailed hinges allow arms to swivel. Cylindrical heads with ventilation Black Bronze (BB). hole rotate to give directional reading light.

### SWING READING



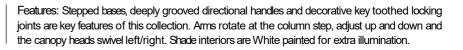


# BIBLIO

Materials: Steel (with brass for EBR) | Polished Nickel (PN).

Finishes: Black Bronze with English Brass (BB/EBR) or











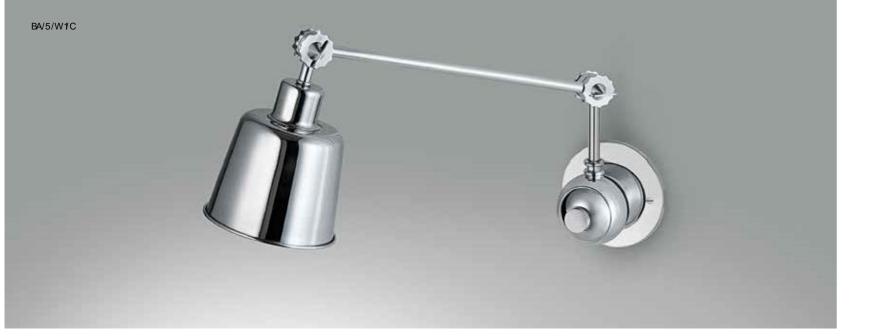


Material: Brushed Brass (BRB), or Steel. Polished Chrome (C).

Finishes: Black Bronze (BB), Features: Arm rotates left/right and is adjustable for height and reach with two decorative locking key swivel joints. The light source is housed in a ventilated metal shade. There is an integral knurled rotary dimmer switch in the centre of the backplate.







	Materials: Steel and wood.	Finish: Black Bronze (BB) with walnut wood.	Features: De swivel joint a Silk Thimble
shad  130  () () () () () () () () () () () () ()	8/W1/BB with op le QDR/M/BB - + + + + + + + + + +	0	
	DR/8/W1/BB shade QDR/8.	with optional /SLK THIMBLE	
	180	LED 2700K	
-			

ight 2018

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E Decorative wooden handle allows rotational movement left and right and there is also a t above the shade. Shade options include colour matched ventilated metal or fabric e shown here with other options at back of catalogue. Suitable for bedside or desk use.







Features: A sleek, semi-recessed LED bedside reading light with a push switch operated mechanism which causes the central housing to revolve and softly dock in the open position. The light which emits through a prismatic focusing lens comes on automatically. To close, there is a dimple within the housing to rotate the unit back into the off/closed position. See overleaf for installation details.

LED/6/BN



Image shown at actual size.

The product is mounted with the switch nearest to the bed.

Push switch to operate.







Focused directional reading light.



Easy-push dimple to close and switch off.



Image shown at actual size.

The LED warm white light focuses toward the reading position.

Finishes: Brushed Nickel front plate and housing (BN); Satin Black front plate with Brushed Nickel housing (BL/BN); Polished Chrome front plate with Brushed Nickel housing (C/BN); Black Bronze front plate and housing (BB); Brushed Brass front plate with Satin Black housing (BRB/BL).



LED/6/BL/BN





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# LED REVOLUTION

LED'6/BB				
		·) –		
I	149	1		
LED 1W 2700K				

 $\boldsymbol{\zeta} \in \boldsymbol{\mathbb{V}}_{L} \stackrel{\perp}{=} \mathbb{IP}_{20}$ 



### LED/6/BB



### LED/6/BRB/BL





LED Revolution is for headboard or cavity wall installation and cutout sizes and fixing details are shown below. The design allows left or right mounting governed by the orientation of the switch. Once the unit is secure, the front plate simply snaps into position and is easily removed for maintenance by inserting a small screwdriver into the rebate on one corner.

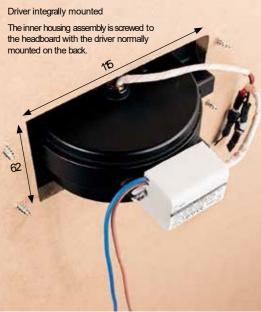
Removing front plate from snap-on mechanism

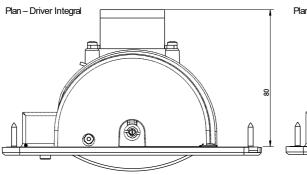


Product is to be mounted horizontally and cutout dimensions must be 115mm x 62mm.



Elevation 0



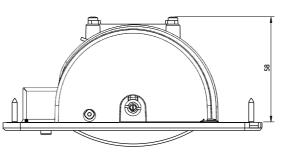


Plan – Driver Remote

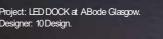
Driver remotely mounted

If there is insufficient depth behind the

headboard the driver can be sited remote













Finishes: Polished Chrome (C), Black Bronze (BB), Black Bronze with English Brass (BB/EBR), Satin Black with Chrome (BL/C), Brushed Nickel (BN) and English Brass (EBR). Features: Finish options for this range of headboard reading lights are shown below with other design and switching options, plus installation information on the following pages.

### LED DOCK







Materials: Finishes: See page 99. See page 99.

Features: A warm white LED reading light is housed within a cylindrical or rectangular head that swivels 90° left, right or forward and 'docks' into a semi recessed backplate, which can be vertically or horizontally mounted. Docking switch or push switch options are available (see page 103).

A combination wall light is shown below housing the docking switched LED head within its backplate plus an ambient room light within a fabric shade. These are right and left handed for bedside use.





### LED DOCK





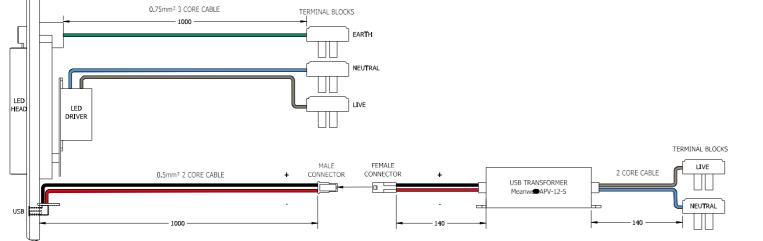
Materials:Finishes:See page 99.See page 99.

Features: See page 99. The Dock range can be offered to special order with an integral USB port fitted for minimum 50 pieces. Note: LED driver is integral but USB transformer is remote – see diagram below. For headboard mounting only. Switching options: Available with automatic docking switch in the backplate recess, or with shallow push switch in the base of the backplate (except USB version).

Installation: For simple installation, headboards can be prepared incorporating cutouts and fixing holes as shown in the templates below. Units come complete with switch, LED driver and terminal block fitted to the back for ease of electrical installation. Once connections are made the internal backplate is screwed to the headboard recess and finally the front cover plate is fitted with one discrete locating screw at the bottom.



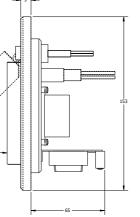
### USB Remote Transformer

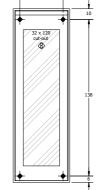


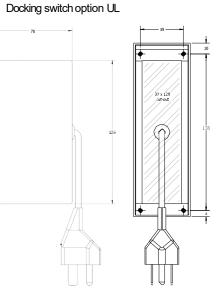
# LED DOCK



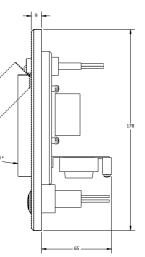
Docking switch option





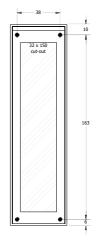


Push switch option

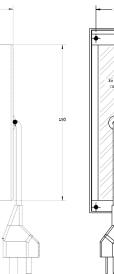


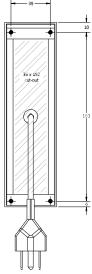
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Push switch option UL





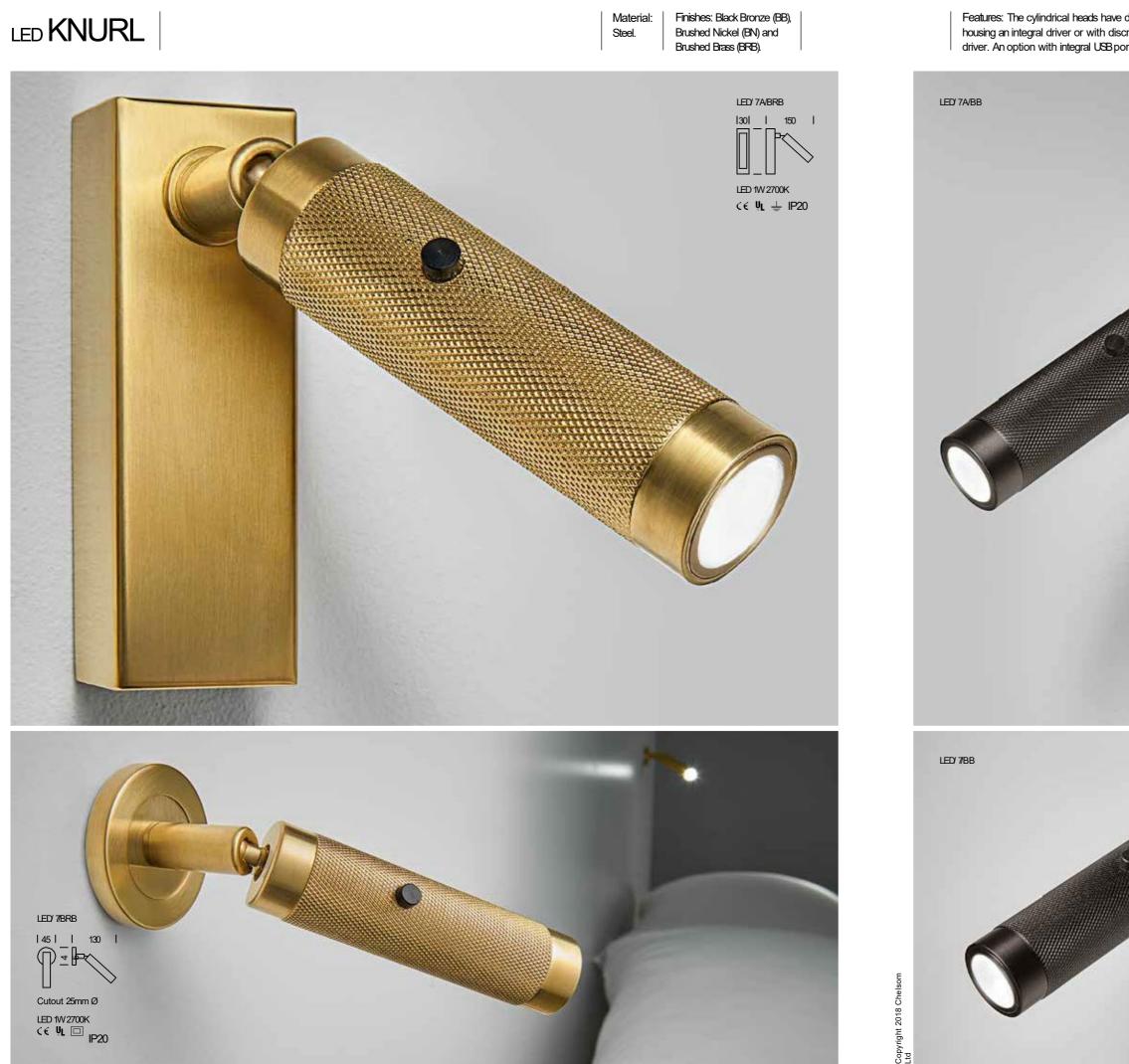
103



Features: Backplate houses colour co-ordinated push switch. Integral driver is in the arm. Arm swings left – right and head rotates for good light distribution.

# LED HOTEL





Features: The cylindrical heads have detailed knurling and a black on/off push switch. All three finishes are available with rectangular backbox housing an integral driver or with discrete round backplate with concealed fixings for remote driver location. Prices include integral or remote driver. An option with integral USB port and remote transformer is available for minimum quantity 50 pieces and for headboard mounting only.

# LED KNURL





LED/9/SW/C

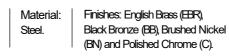
 

 Material:
 Finishes: Polished Chrome (C),

 Steel.
 Black Bronze (BB), Brushed Brass

 Black Bronze (BB), Brushed Brass

Features: Inspired by last century stage lighting, the LED heads have a deeply grooved double line. The heads give a full range of directional adjustment and different backplates (BRB) and Brushed Nickel (BN). allow switching remotely or by an integral push switch. Prices include remote driver.





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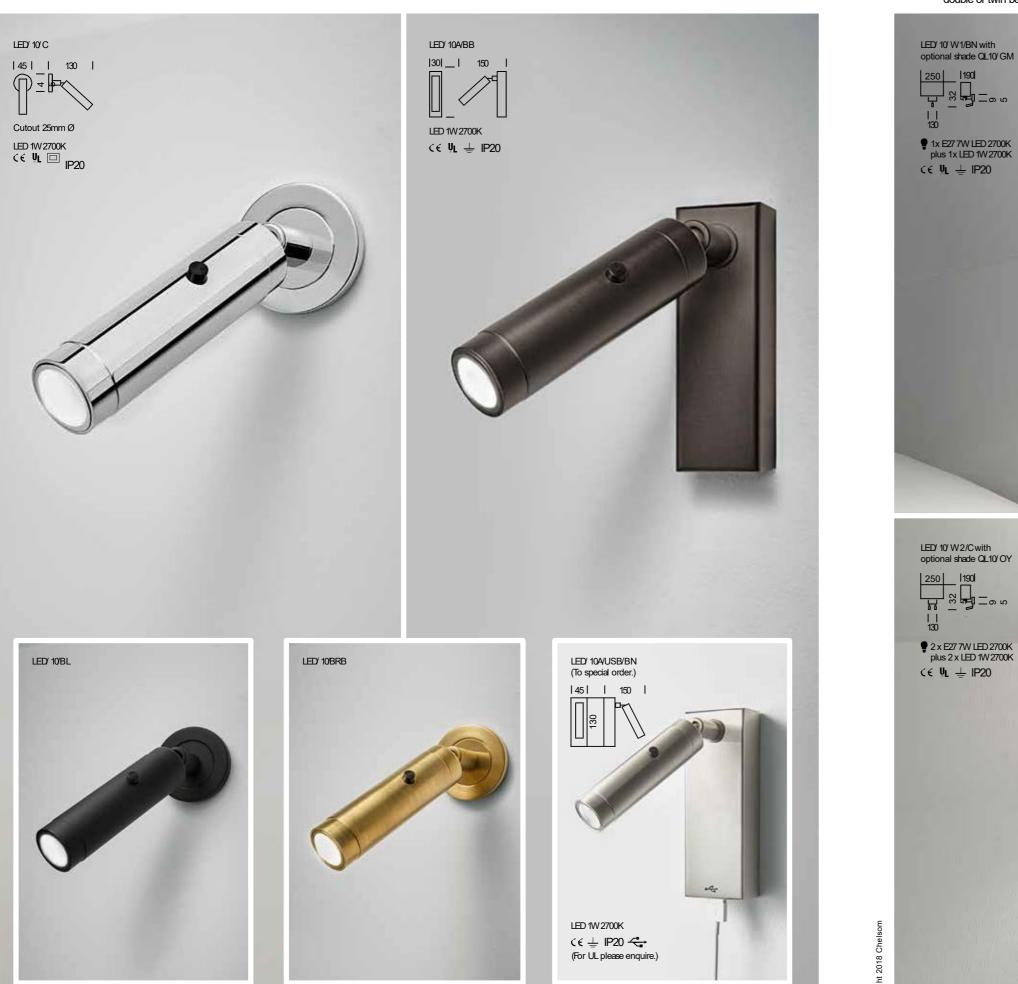
Features: For the more traditional interior, LED Classic features a detailed backplate with integral toggle switch and a sculptured head secured by knurled rings on a stirrup bracket. Prices include remote driver.

### LED CLASSIC



Finishes: Black Bronze (BB), Brushed Material: Nickel (BN), Brushed Brass (BRB), Satin Steel. Black (BL) and Polished Chrome (C).

Features: The cylindrical heads have a black on/off push switch. Rectangular backbox houses an integral driver or discrete round backplate has concealed fixings for remote driver. Prices include integral or remote driver. An option with integral USB port and remote transformer is available for minimum quantity 50 pieces and for headboard mounting only. Combination wall lights are for double or twin bed configurations with main light switched remotely (integral switching to special order for minimum 50 pieces).



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### LED FOCUS







Finishes: Brushed Nickel (BN), Brushed Material: Brass (BRB), Satin Black (BL), Polished Steel. Chrome (C) and Aluminium (AL).

卣

Ь

| 130 |

200

LED/ 750/BRB | 62 | | 65 | Cutout 35mm Ø LED 1₩2700K <€ <sup>Ų</sup>L □ IP20 LED/350/BN (Also available with toggle switch as LED/300/\* - minimum quantity 50 pieces) LED/100/BN | 235 | 235 | Cutout 35mm Ø Cutout 10mmØ LED 1W 2700K LED 1W 2700K (e 🌡 🗖 1P20 CE VL 🗆 IP20

LED/800/C with optional shade QOB/12/W

1x E27 7W LED 2700K plus 1x LED 1W 2700K

<€ ŸL ≟ IP20



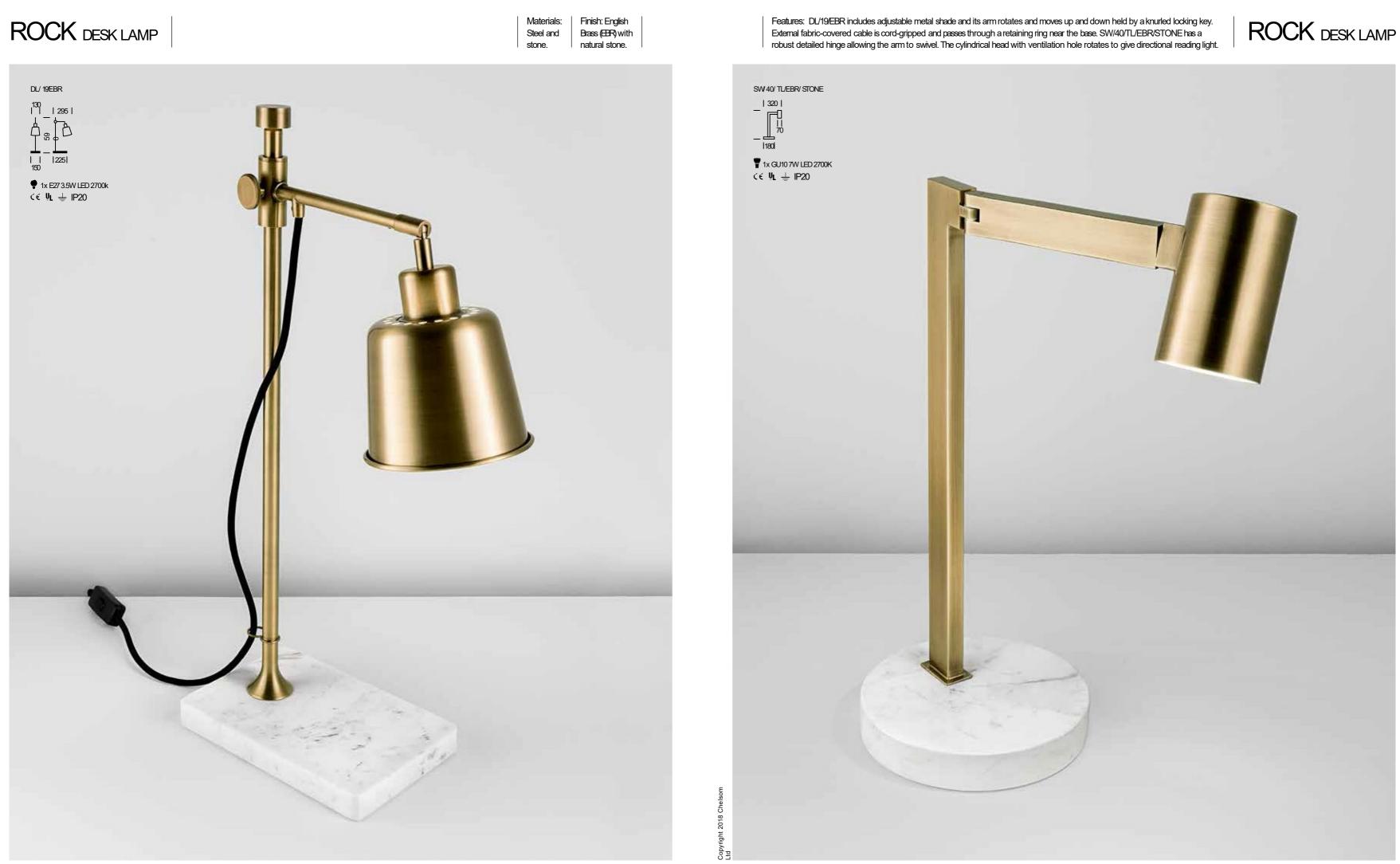
LED/500/C 

| 265 |

LED 1W 2700K  $\zeta \in \Psi_L \perp IP20$ 



### LED READING



# DESK HUB CAP

Materials: Steel and optional stone.

Finishes: Black Bronze with English Brass (BB/EBR) or Polished Chrome (C). Black Bronze with Stone (BB/STONE), White with Gold (W/GO) and other custom finishes for minimum 50 pieces.

Features: Desk lamp has an integral LED light source and a colour co-ordinated push switch in base (except custom Stone option). Opal acrylic diffuser gives good diffused light.



### DESK HUB CAP

Project: HUB CAP at Sheraton Park Lane London. Designer: MKV Design.





Steel.

Brass (BB/EBR), Polished Chrome (C), Black Bronze (BB), English Brass (EBR). toothed locking key swivel joints. Bases include integral toggle switch. Other shade fabric options are available to special order.



GART 622 Project: STUDY at Mandarin Oriental Hyde Park, London. Designer: Joyce Wang Studio.

6

<€ ŸL ≟ IP20





Material: English Brass (BB/EBR), Satin Steel.

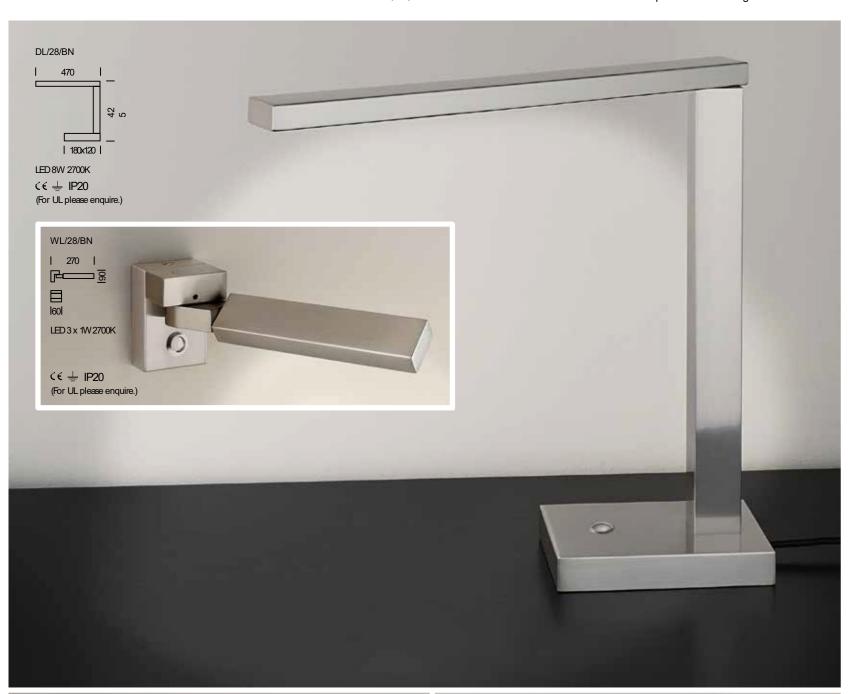
Finishes: Black Bronze with Features: Adjustable canopy gives good light direction with internal reflector plate. Black with Chrome (BL/C). Colour co-ordinated push switch in base.

Steel with Polished Chrome and other finishes available acrylic diffuser. to special order for minimum quantities.





Nickel (BN) orreading light. Wall light head also rotates to give a full range of directional light.Soft White (SW).Desk and wall models include colour co-ordinated push switch and integral driver.



Steel.

remote) transformer. Modifications to depth of table lamp base or wall light backplate may be required in order to house the port and transformer. Charging ports are always wired on a separate circuit to ensure charging continues whether the lamp is remotely switched on or off. A minimum of 50 pieces is required for production. See overleaf for further examples.

LED/5/1/USB/C See page 102





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### CHARGING



# CHARGING

Shown are examples of standard catalogue items with modifications to include USB charging ports. See previous page for more detail. A minimum of 50 pieces is required for production.



# CHARGING



Materials: Steel | Finishes: Black with acrylic top Bronze (BB) or diffuser.

Features: A double square section tube detail suspends the fabric shade which has an Opal acrylic top diffuser. Table and wall lights have a USB charging port as standard and the wall bracket Polished Chrome (C). includes an LED reading light operated by a colour matched push switch and an integral driver.

> 185

1150 | 180 |

Materials: | Finish: Golden Bronze with Steel and Ebony. wood.





TV/36/W1/LED/BB with optional shade QTV/W1/OY

|130| |195| ПП

100

1x E27 7W LED 2700K plus 1x LED 1W 2700K  $\zeta \in IP20 \iff$ 

(For UL please enquire.)

Features: Chunky Ebony stained wooden sections combine with reeded tubing to feature in this elegant guestroom lighting design.







Finishes: Black Features: Table and floor lamps feature Material: Bronze (BB) or off-centre upright double columns and all Steel. Polished Chrome (C). models have a detailed knurled centre section.











Shades: All shades are bespoke for the Check In range. Fabrics shown are Oyster cottonette (OY) and Natural (NAT). Other fabrics to special order. Shades have integral top diffusers with a central ventilation hole.

# CHECK IN





Features: Linear steel frames encase cylinder shades in a variety of fabrics. Pendant normally supplied with clear cable suspension. Fixed rod suspension for bedside use as shown to special order. Shades: Diffusers are fitted in the top of table and floor lamp shades and bottom of pendant shade. Other fabrics available to special order.









Features: Crossover sections pass one in | Shades: See back of front of the other and wooden bases are Chocolate wood bases. | mounted on protective Chrome plinths. | of optional shades.

catalogue for full range

# CROSSOVER





Steel.

SR/15/TL/C with optional shade QSR/6/NAT

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EXEC

Features: Oval hollow bases and tapered columns. Desk and table lamps have colour co-ordinated push switches in base. Floor lamps have vertical (FS1) or angled (FS2) columns.



Shades: All shades are bespoke for the Exec range. Desk and table lamps have a top diffuser with oval ventilation hole.





TRIP

Material: Finishes: Aluminium (AL) or Penny Bronze (PBZ). Polished Chrome (C) to Steel.

Shades: Shades are bespoke for the Trip range and have integral top parchment diffusers with ventilation holes. special order for minimum quantities. Other fabric options are available – see back of catalogue.



Features: Pricing and dimensions include cotton fabric shades (special fabrics may be extra).



201 ΞÖ





TRIP

# ADJUST

Material: Steel.

Finish: Black Bronze (BB) with others to special order for minimum quantities.

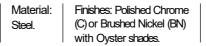


Features: Arms can be adjusted vertically with the shade always remaining upright. Wall light swivels left – right. All models are switched at the lampholder.

Shades: See back of catalogue for full range of optional shades.

## ADJUST







Features: Arms can be adjusted vertically with the shade always remaining upright. Wall light swivels left – right. Prices and dimensions include shades shown.

Shades: See back of catalogue for full range of optional shades.



## ANGLE

# 

Finish: Satin Material: Steel.

Black with Brushed Brass. Features: Brushed Brass accents contrast with Satin Black metalwork and tapered shades are suspended giving good downlight. The table and floor lamps sit on heavy slim bases and the combination wall light has a directional switched LED reading light with integral driver in the backplate. Fabric shades are bespoke for this range - other fabrics available.



DW/6/TL with optional shade QDW/5/NAT

ի Տ Բ | | |200| 150

2018

1x E27 7W LED 2700K <€ ŸL ± IP20



## DOWNTOWN









Material: Black with Steel.

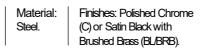


Finish: Satin | Features: An up-and-over square section column supports bowed rectangular shades in Grey with Black trim - for other fabric options see back of catalogue. The table lamp has a rocker switch in Aluminium. the base as does the combination wall light which operates the LED reading light (driver is integral).



## GUEST











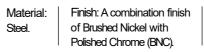












|150|| 360 | <sup>(1)</sup> 1x GX53 6W LED 2700K ζ € **ΨL** ≟ IP20



/right 2018 Che

Features: Round Polished Chrome plates are inset flush into square bases and backplates. Combination wall light has integral driver.

Shades: See back of catalogue for full range of optional shades.



## INTERIORS





Finish: Polished Materials: Features: Wooden bases are mounted on Steel and Chrome and protective Chrome plinths. Combination LED wall light includes integral driver and reading light switch. for full range of optional shades. Chocolate wood. wood. 



Shades: Shades shown are bowed rectangles (QBR). See back of catalogue



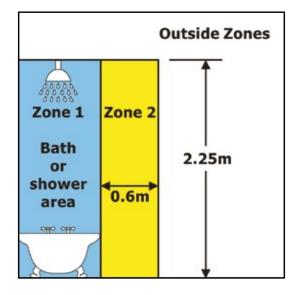
### URBAN



### BATHROOM MIRROR

 Materials:
 Finish: Polished
 Features: Shaving mirror BW/110 is fully adjustable with an integral LED light

 Steel with
 Chrome with white
 source. Illuminated mirrors can have an optional demister pad (standard on BW/116/LED). Shaver sockets are standard on BW/115/LED/SS and BW/116/LED.



REQUIREMENTS BASED ON REGULATIONS FOR LUMINAIRES IN AREAS CONTAINING A BATH OR SHOWER

For the purpose of defining the regulations, the bathroom is divided into two zones as shown below. In any room containing a bath or shower, protection by a RCD (Residual Current Device) of 30 mA with a response time of 0.4 seconds is required for each circuit.

### Zone 1

The area above that defined by the perimeter of the bath or shower tray. Only fittings supplied from a remote 12/ transformer and having a minimum rating of IPx5 are recommended.

### Zone 2

Area adjoining bath or shower tray. Outside the perimeter of the bath or shower up to a distance of 600mm, fittings with a minimum IPx4 rating are required, either mains or low voltage.

### Outside of Zones

The remaining area of the bathroom beyond Zone 2. In this area any mains or low voltage luminaire can be used if protected by an RCD.

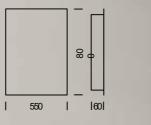
Only bath or shower areas are relevant in these regulations – washbasins are not. If water jets are used (this does not include shower heads), then IP55 is required.

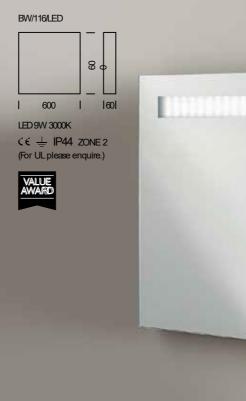


¢€ ≟ IP44 ZONE 2 (For UL please enquire.)

BW/115/LED/SS with shaver socket

LED 25W 3000K





ò

### BATHROOM MIRROR





IP ratings and zone positions are shown. Please refer to the diagram on page 162. Materials: Solid Finish: brass; Opal glass Polished for BW/22. Nickel. Features: Prices and dimensions include Linolux wipeable shades. G9 LED lamp housed within a waterproof frosted glass diffusing capsule.



 $\zeta \in \mathbb{V}_{L} \perp \mathbb{I}_{P44}$  ZONE 2

RG3W1/BB 10 186 10 10 LED 3W 270K (C 1 IP44 ZONE 2 (ror UL please enquire)

Materials:

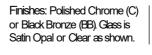
Steel with

glass diffusers.

LN/34/WW/C |150| |195| |0 ====10

1x E143W LED 2700K
 C∈ UL ↓ IP44 ZONE 2

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Features: Bathroom lighting with strong design features. RG/3 features a Clear glass cylinder, Cl/37 Clear individual glass rods, LN/34 a faux stone backplate detail and OD/30 an Art Deco glass with ribbed metalwork detailing.

### BATHROOM DELUXE







Materials: Steel with glass diffusers.

Finishes: Polished Chrome and BW/112 also available in Black Bronze (BB) for minimum quantities – 50 pieces. Diffusers are Opal, or Frosted for BW/31 models.



Features: BW/31 and BW/112 models can be vertically or horizontally mounted. BW/20 has an enclosed, ribbed Opal glass with integral LED light source.





## BATHROOM



# TABLE AND FLOOR

















Odeon

Twist

188 Paris









Glass Art Milk

Laguna

178 Glass Art Milk

170 Laguna

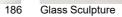
179 Stockholm





185 Glass Art Smoke









184 Oslo

168







176



# TABLE AND FLOOR



189 Console



194 Elite











190 Provence



195 Waist



198 Floor



Materials: Glass with steel.

Finishes: Olive glass with Black Bronze metalwork and Gold silk-covered cable, Mocca glass with Golden Bronze metalwork and Gold silk-covered cable or Aqua glass with Brushed Nickel metalwork and Silver silk-covered cable.



Features: Rediscovered artisan glass moulds which had lain unused since the 1960s create stunning geometric patterned mouthblown glass table lamps.





Glass with steel.

Materials: Finishes: Olive glass with Black Bronze metalwork and Gold silk-covered cable, Mocca glass with Golden Bronze metalwork and Gold silk-covered cable or Aqua glass with Brushed Nickel metalwork and Silver silk-covered cable.

Features: Rediscovered artisan glass moulds which had lain unused since the 1960s create stunning geometric patterned mouthblown glass table lamps.







LG/3/MOCCA with optional shade QCY/14/OY

Glass with steel.

Materials: Finishes: Olive glass with Black Bronze metalwork and Gold silk-covered cable, Mocca glass with Golden Bronze metalwork and Gold silk-covered cable or Aqua glass with Brushed Nickel metalwork and Silver silk-covered cable.

LG/3/AQUA with optional shade QST/16/W

Features: Rediscovered artisan glass moulds which had lain unused since the 1960s create stunning geometric patterned mouthblown glass table lamps.







LG/4/OLIVE with optional shade QCY/14/OY

Glass with steel.

LG/4/AQUA with optional shade QST/16/W

Materials: Finishes: Olive glass with Black Bronze metalwork and Gold silk-covered cable, Mocca glass with Golden Bronze metalwork and Gold silk-covered cable or Aqua glass with Brushed Nickel metalwork and Silver silk-covered cable.

Features: Rediscovered artisan glass moulds which had lain unused since the 1960s create stunning geometric patterned mouthblown glass table lamps.





Materials: Finish: Milk Glass and Opal glass with steel. Brushed Brass.

GA/58 with optional shade QCY/18/NAT



1x E27 7W LED 2700K <€ **4**L <u>+</u> IP20

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# GLASS ART MILK



Steel and glass.

Also available in Brushed Nickel (BN) with iridescent Smoke glass – see overleaf. and brushed metalwork with internal silk covered colour matched cables. See back of catalogue for optional shades.



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# STOCKHOLM





Materials: Steel with glass.

Finishes: Brushed Nickel (BN) with iridescent Smoke glass. Also available in English Brass (BBR) with Clear glass – see previous pages.

Features: Clean lines with seamless joints between glass and brushed metalwork with internal silk covered colour matched cables. SK/28 has heavy, horizontal ribbing in the metalwork.



ΰ

t 2018 ight Copy Ltd Shades: See back of catalogue for optional shades.

# STOCKHOLM







450

| 300 |

0 20







Materials: Mouth	Finish: Smoke	
blown Veneto glass	glass with Black	
with steel metalwork.	Bronze metalwork.	

Features: Mouth blown heavy glasses have a random horizontal ribbing. Silk covered cable runs internally.

formed Veneto solid glass with dual colours and steel metalwork.

glass and Black Bronze metalwork. Also available with Chrome metalwork.

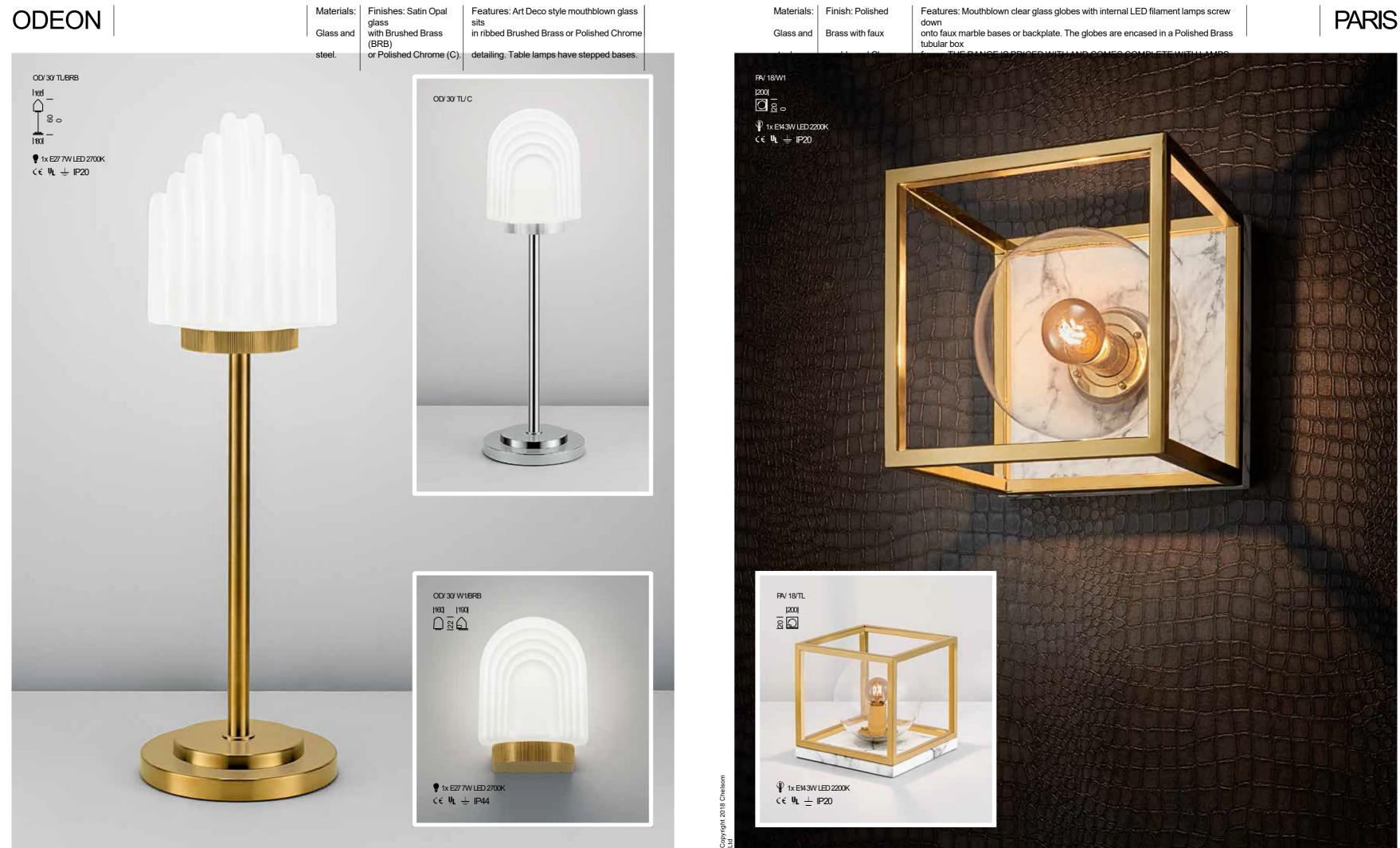
GS/66/SM with optional shade QCY/14/SILK PEBBLE  $\overrightarrow{+} \circ \bigcirc \qquad \overrightarrow{-} \qquad \overrightarrow{-$ 

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glass outer is hand sculpted, making every piece unique with slight variations in shape and blend of colours. Silver silk covered cable runs externally.





# CONSOLE

Materials: Steel and brass.

Finishes: Black Bronze with English Brass (BB/EBR) or Polished Chrome (C).

Features: A tall slender lamp for use on narrow consoles,

Shades: See back of catalogue for

Materials: | Finish: Brushed Brass | Features: Rectangular section tubes are formed Steel and metalwork with stone. natural stone base.

PR/24/TL with optional shade QEL/18/HE | 450 | 73 0 54 180 9 1x E27 7W LED 2700K  $\boldsymbol{\epsilon} \in \boldsymbol{U}_{L} \doteq \boldsymbol{I}_{P20}$ 

2018 Copy



into geometric patterns and for the table lamps are set onto heavy natural stone bases.

## PROVENCE



TWIST

Materials: Wrought iron and steel.

Finishes: Florentine Antique Gold Leaf (GO) and Florentine Antique Silver Leaf (SI).



Features: Hand wrought iron tubing with a distressed patina is formed into a twisted shape and for each model two arms support offset fabric shades. Table and floor lamp rectangular bases are Satin Black.



**TWIST** 

SILVER SCULPTURE	Material:Finish: FlorentineFeatures: See alsoShades: SeeHand forgedAntique SilverSculpture matchingof catalogue foriron.Leaf.Identeoptional shades.	Materials:Finishes: Subtle AntiqueSolid cast metalBrass with Gunbarrel Bronze accents.
	Inter or using the left       Support instant and the provide	
		E 0

Shades: See back of catalogue for optional shades.





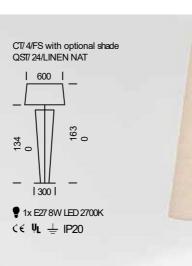


Material: Finish: Textured Black with Polished Steel. Chrome ring.

Features: Heavy bases and solid steel bars in a 'waisted' design with external chrome ring.

Shades: See back of catalogue for optional shades.

Steel. with Antique Brass accents.



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FLOOR

Finishes: Polished Chrome on Materials: Wood and FA/70 with Wenge wood on FA/30 and Walnut on FA/80. steel.

Features: FA/30 has cable running internally down one leg. FA/70 has an extremely heavy base for stability with Shades: See back dimensions including a special shade with integral bottom diffuser, priced separately. FA/80 has a curved tripod base section supporting Polished Chrome decorative capping. Top of lamp also has decorative Chrome accents. optional shades.



FA/80 with optional shade QST/24/OY

164 0

| 600 |

480 I

9 1x E27 8W LED 2700K

 $\zeta \in U_L \perp IP20$ 

2018 Copy of catalogue for

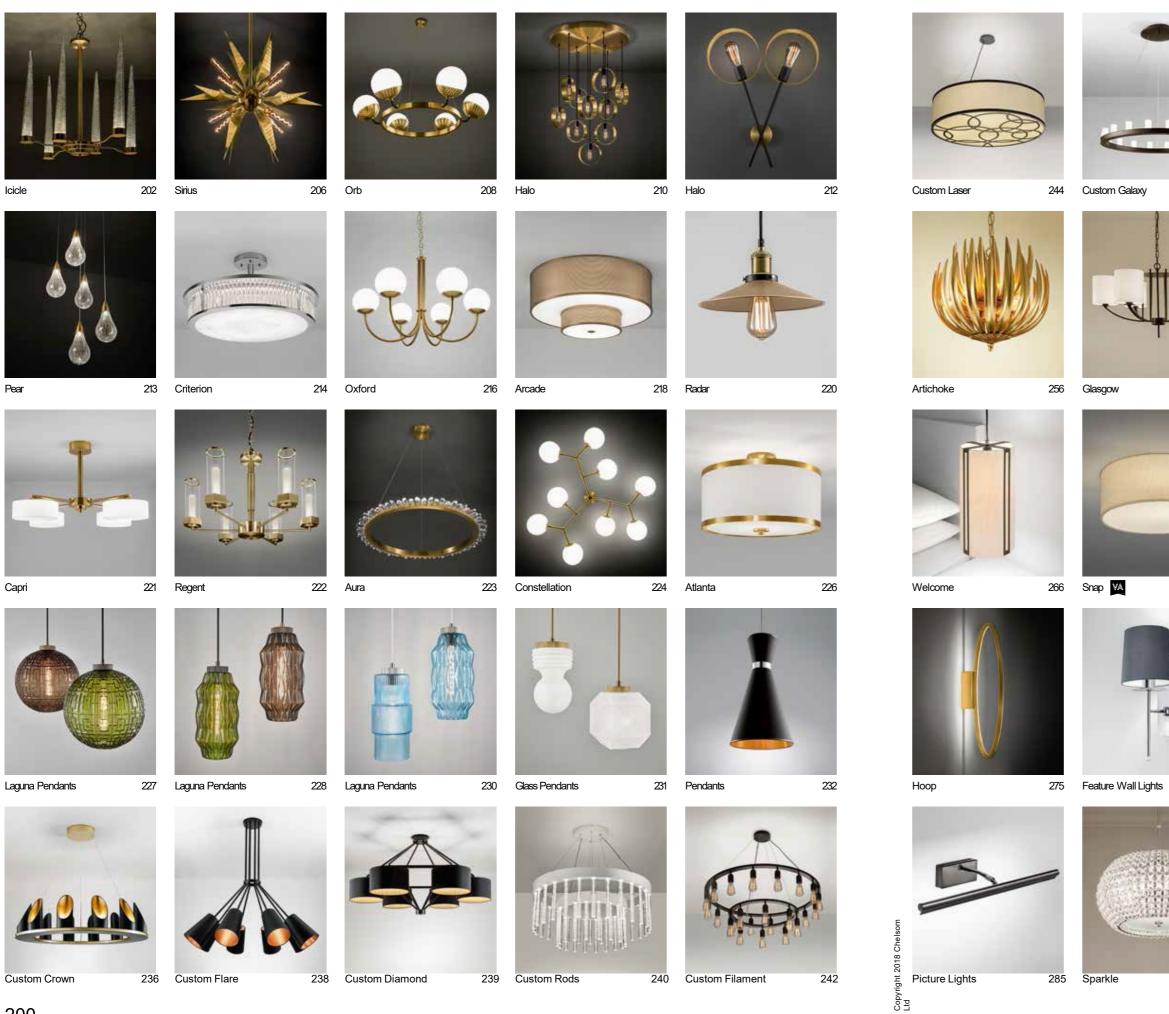




### WALL & CEILING



The Chelsom Value Award is given to ranges which represent exceptional value alongside high design and quality standards.



### WALL & CEILING





246 Teardrop



258



London





248 Silver Sculpture



260 Ailsa



250 Palm

254



Space

262







269 Solar





272 Sconce



274











282 Metal Sculpture



287 Mayfair Lanterns



283 Classic Picture Lights

284



288 **Classic Exterior** 

290



Kensington Lanterns









Materials:Finish: English BrassSteel andwith silver-fleckedglass.clear glass.

Features: Dimmable integral LED light sources in the base of the glass icides throw light upwards giving a warm ambient glow whilst reflecting off the tiny silver leaf flecks within the handmade glass. Alternate arms curve upwards or downwards to give a random feel to the heights of the icide glasses. Note: Glass icides are handmade and may have slight variations.





ICICLE



Finish: English Brass Materials: Steel and glass.

with silver-flecked clear glass.



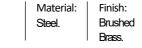
Features: Dimmable integral LED light sources in the base of the glass icicles throw light upwards giving a warm ambient glow whilst reflecting off the tiny silver leaf flecks within the handmade glass (single pendant non-dimmable). Alternate arms curve upwards or downwards to give a random feel to the heights of the icicle glasses. Pendant IC/24/P gives a warm downlight glow. Note: Glass icicles are handmade and may have slight variations.



# ICICLE









SB/44/8 l 810 Weight 5kg 8 x E27 4W LED 2200K € € UL ≟ IP20

Features: A starburst effect is created from a central globe which supports LED cigar filament lamps and folded tapering brass reflector fins. Each fin can rotate to create a random effect. THE RANGE IS PRICED WITH AND COMES COMPLETE WITH LAMPS AS SHOWN.







Materials:Finish: Brushed BrassFeatures: Opal globes have a screw connection into Brushed Brass bowls which are perforated with aSteel andwith Satin Black andhoundstooth pattern allowing spills of light to shine through. These are supported by curved arms extendingglass.Matt Opal glass.from substantial Brushed Brass rings. Chandeliers hang on three strainer wires adjustable for height during installation.



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OR/41/10

150

l 1500 Weight 15kg

9 10 x E27 7W LED 2700K

<€ 4L <u>+</u> IP20

# ORB



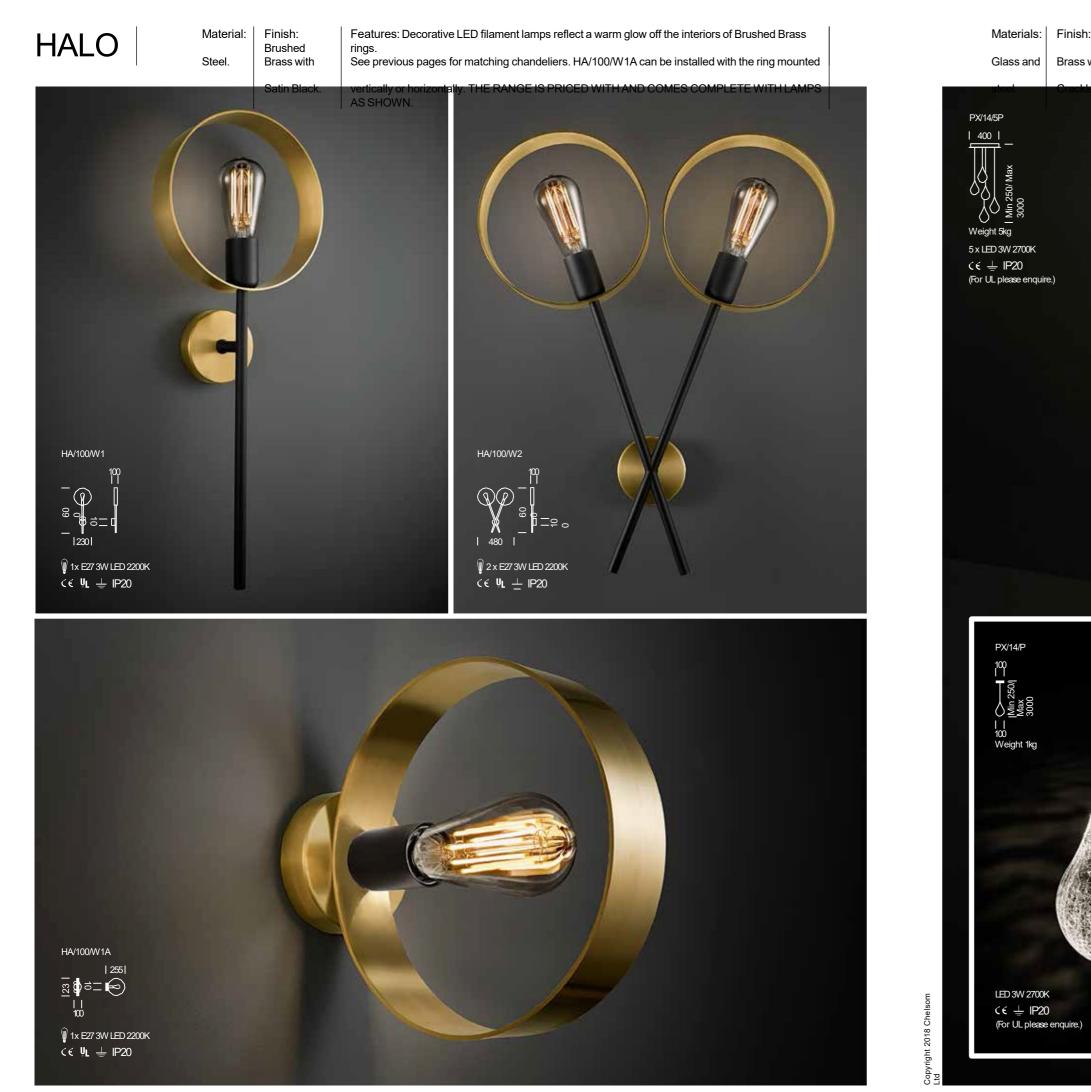
Materials: Finish: Brushed Steel. Brass with Satin Black. Features: Decorative LED filament lamps reflect a warm glow off the interiors of Brushed Brass rings. The rings on the four and eight light chandeliers can rotate at the end of the arms to give a random appearance. The ten light has rings suspended on black silk-covered cable to look similarly random. See overleaf for matching wall lights. THE RANCE IS PRICED WITH AND COMES COMPLETE WITH LAMPS AS SHOWN.



HA/100/10 800 Weight 21kg 🖗 10 x E27 3W LED 2200K <€ UL ± IP20







Materials:Finish: BrushedFeatures: Tiny points of LED light project a sparkling glow into<br/>sculpturedGlass andBrass with Clearcrackle glass pears. A single pendant and five light cluster with top







Features: Dimmable integral LED light sources sparkle and refract through Finishes: Polished Materials: Brass (PB) or Polished Glass and individual solid clear glass rods. Faux alabaster acrylic bottom diffusers give a Chrome (C). soft downlight. The range has a matching bathroom wall light – see page 165. steel.



CI/35/F/C Weight 6kg LED 8W 2700K C € ⊥ IP20 (For UL please enquire.) CI/35/W2/PB | 350 | h70| - ℃ い LED 6W 2700K  $\zeta \in \pm \mathbb{IP}_{20}$ (For UL please enquire.)

ΰ t 2018 -

## CRITERION









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OX/42/W1/BRB with optional glass GS/200/OP



Features: Simple elegant sweeping arms with Satin Opal or Clear Crackle glass globes are equally at home in a traditional or contemporary setting. Gasses have integral threaded metal fixings for secure attachment. Wall lights can be installed as up or down lights. WHEN SUPPLIED WITH CLEAR CRACKLE GLASSES, THE FITTINGS ARE PRICED WITH AND COME COMPLETE WITH LAMPS AS SHOWN.

### OXFORD



## ARCADE



Copy

AD/35/FF2

600

| 300 |

Weight 8kg

LED 16W 2700K

 $\mathfrak{C} \in \mathbb{P}_{20}$ (For UL please enquire.) Features: Dimmable integral LED light sources give ambient light through perforated metal frames with soft diffused downlight from opal acrylic diffusers. Wall light has diffusers top and bottom.

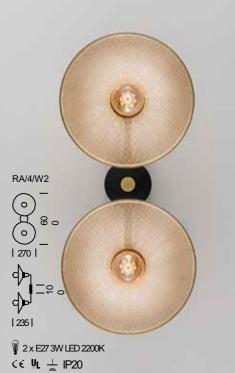








¥ 1x E27 3W LED 2200K <€ **½L** ≟ IP20







f

ight 2018

БG

Features: Heavily ribbed Opal glass shades are secured onto knurled decorative doublestepped caps.

The wall light can be installed as an up or downlighter. Light sources are integral warm white LED. CP/24/P

has a fixed suspension rod which can divide into three connectable parts (250mm, 400mm or 600mm).





CAPRI



 Materials:
 Finishes: English Brass (EBR)

 Steel and glass.
 or Black Bronze (BB) with

 Clear and Frosted glass.

Features: Dimmable integral LED light sources shine light upwards into heavily frosted glass candles which are seen through sparkling clear glass outer chimneys (wall light non-dimmable). The glass chimneys sit in hexagonal cups and have delicate metal top caps.



Materials: Finish: Brushed Steel and Brass. resin. AU/22/P 1150 LED 18W 2400K Weight 18kg <€≟ IP20 (For UL please enquire.) Contract of the second

### AURA











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224

Features: Ceiling fittings with an organic design giving a random pattern of arms and Opal globes. Glasses have threaded inserts to screw on for a durable fixing. Custom designs and sizes can be manufactured.

Finish: Brushed

Brass with Matt

Opal glass.

Materials:

Steel and

glass.

CE/9/BRB

# CONSTELLATION





Materials: Finishes: Brushed Steel, acrylic Brass (BRB) and Polished Chrome (C). and fabric.

Features: Semi-flush ceiling fittings have matt opal acrylic diffusers and off white textured cotton fabric shades.





LG/1P/MOCCA 100 300 Weight 3kg 1x E27 4W LED 2200K §<€ ŸL ≟ IP20

Glass with

steel.

ght 2018 <u>8</u> Materials: | Finishes: Olive glass with Black Bronze metalwork and Black silk-covered cable or Mocca glass with Golden Bronze

Features: Rediscovered artisan glass moulds create stunning 

 metalwork and Black silk-covered cable
 geometric patterned mouthblown glass pendants. Suspension

 or Mocca glass with Golden Bronze
 units have knurled detailing. PRODUCTS ARE PRICED WITH

 metalwork and Black silk-covered cable.
 AND COME COVPLETE WITH LAMPS AS SHOWN.

### LAGUNA PENDANTS



LG/1P/OLIVE

### LAGUNA PENDANTS

Materials: Glass with steel.

Finishes: Olive glass with Black Bronze metalwork and Black silk-covered cable or Mocca glass with Golden Bronze metalwork and Black silk-covered cable.



Features: Rediscovered artisan glass moulds which had lain unused since the 1960s create stunning geometric patterned mouthblown glass pendants. Suspension units have knurled detailing. PRODUCTS ARE PRICED WITH AND COME COMPLETE WITH LAMPS AS SHOWN.

LG/5P/OLIVE

100

Weight 2kg

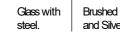
1x E27 4W LED 2200K

IP20 ⊻L <u>+</u> IP20

### LAGUNA PENDANTS

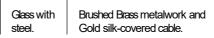


### LAGUNA PENDANTS



Brushed Nickel metalwork and Silver silk-covered cable.

geometric patterned mouthblown glass pendants. Suspension units have knurled detailing. PRODUCTS ARE PRICED WITH AND COME COMPLETE WITH LAMPS AS SHOWN.







since the 1960s create stunning geometric patterned mouthblown glass pendants. Suspension units have knurled detailing above the glass.





The pendants illustrated here are selected from elsewhere in the catalogue and are part of matching ranges - see page referrals for further details.



1x E27 6W LED 2200K <€ ŲL ≟ IP20 See pages 58-59 for full range.

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### PENDANTS







The pendants illustrated on these pages are selected from elsewhere in the catalogue and are part of matching ranges - see page referrals for further details.

Materials: Duplex glass for DN/20 models, steel for DN/125/C and DN/35/BL, fabric for PE/60.

Finishes: DN/20/W – Opal. DN/20/BL – Black/Opal. DN/35/BL – Black/White. DN/125/C – Chrome/White. PE/60/BL/COP - Black/Copper.

<€ ŸL ≟ IP20

Cop



See pages 132-133 for full range.

<€ ŸL ≟ IP20 See pages 45-47 for full range.

Features: Supplied with Polished Chrome suspension units except for PE/60/BL/COP which is Brushed Nickel.

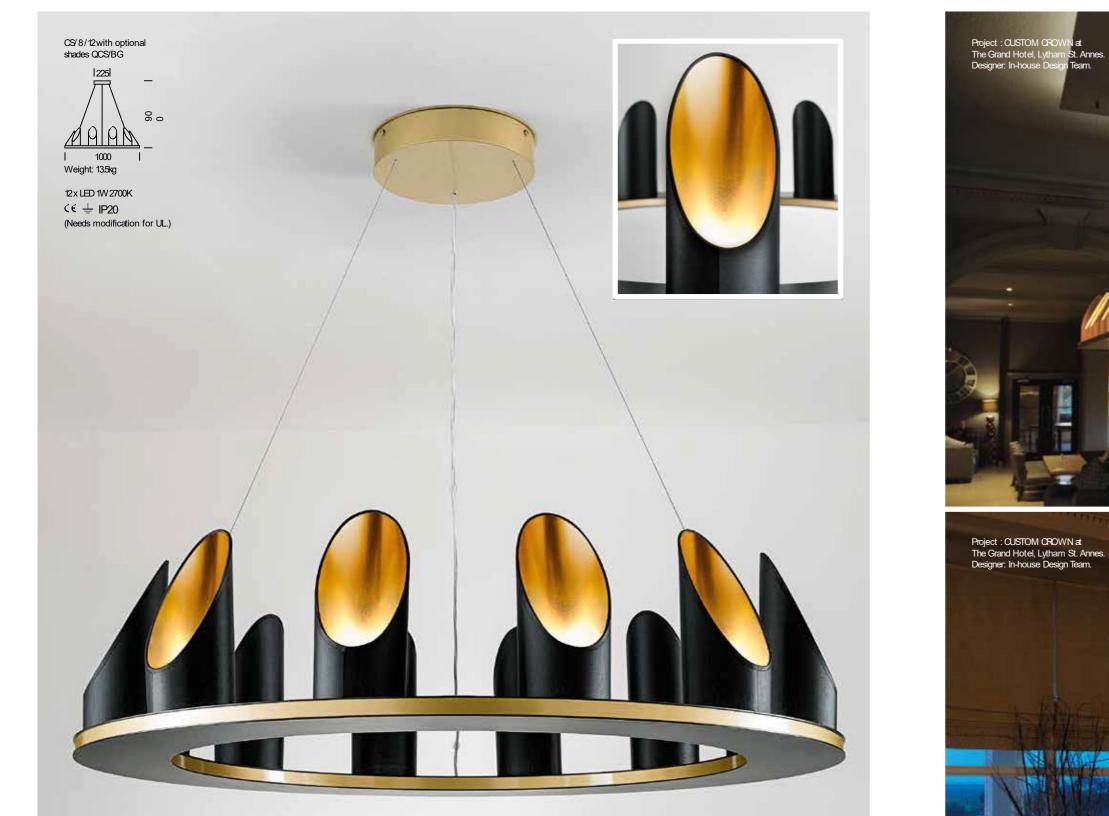


### PENDANTS





Features: Two flat horizontal rings with recessed contrasting colour centre section are suspended from three fine strainer wires. Black fabric cylinder shades with steep angled cuts have Champagne Gold interiors to give a warm ambient glow of gold uplight. This highly decorative fitting can be made in any finish, diameter or shape with any number of lights or tiers. Please contact Chelsom with your ideas and concepts.



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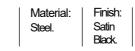
# 



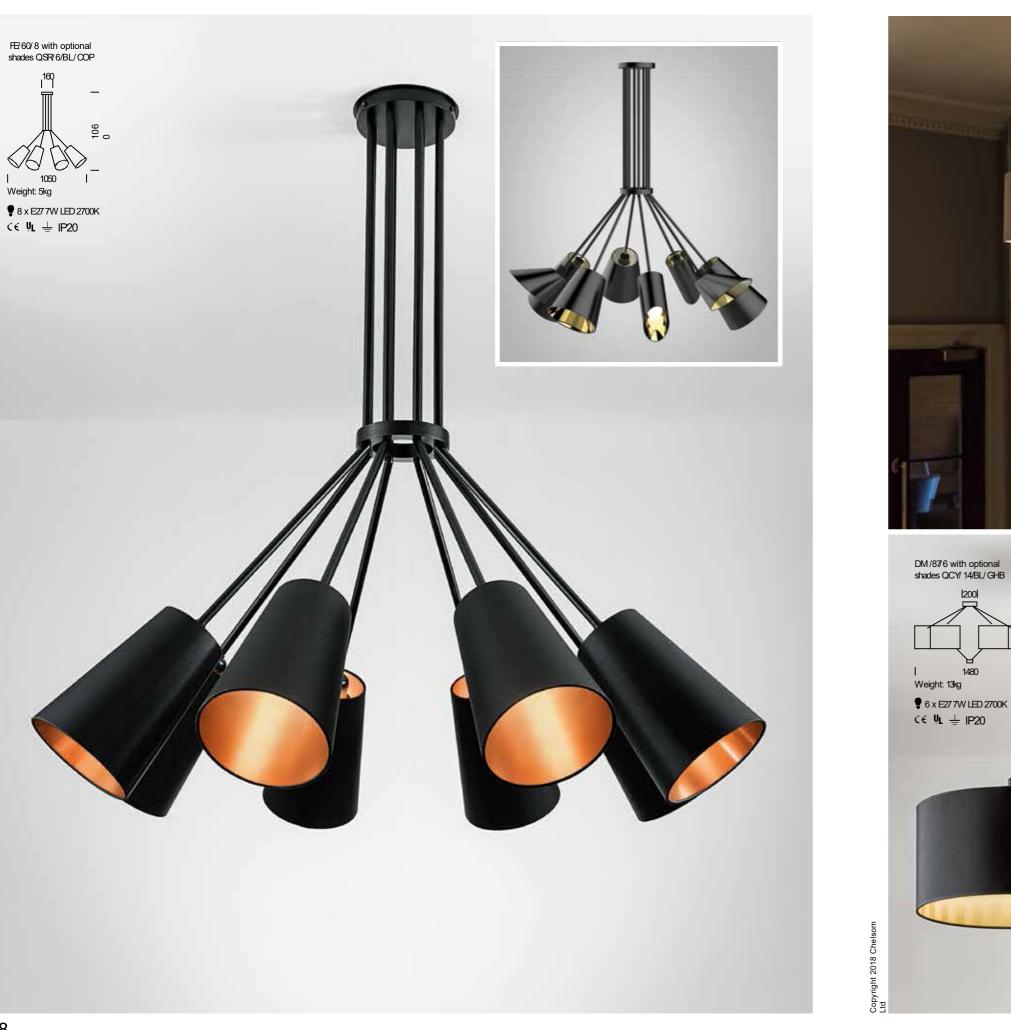


Satin Black.

Material: | Finish: | Features: Vertical tubular columns flare out from a central ring. Finish, number and arrangement of arms and diameter of chandeliers to be specified. Shown with Black shades and Copper interiors, other fabrics can be chosen from pages at the back of the catalogue. Shade shapes can be a random selection as shown in the render. Please contact Chelsom with your ideas and concepts.



Features: A strong geometric diamond frame suspends Black chintz cylinder shades with a Gold Herringbone pattern inside to give a warm and decorative ambient glow. Alternative finishes, larger sizes, different shapes and shade options available. Please contact Chelsom with your ideas and concepts.



# 

Wall & Ceiling 239







 Materials:
 Finishes: Metal – Off

 Steel and
 White and Brushed

 acrylic.
 Nickel for single pendant.

Features: A lighting concept allowing clients to create their own custom designs in any finish and virtually any shape, size or number of tiers can be created (see installations below). Rods are screwed into the metalwork.



Each rod is illuminated from above with a warm white LED light source which sparkles at the bottom of the rod and through the bubbles inside where applicable. Individual rod pendants are also available as are fixed suspension versions. Various rod diameters and lengths are available. Please contact Chelsom with your ideas and concepts.

Copyright 2018 Chelson Ltd RO/42/1P (Clear rod)

20

|| 60

LED 3W 2700K

C€ ŸL ≟ IP20





CUSTOM	
FILAMENT	

Features: These ambient and decorative LED 3W warm white dimmable filament lamps are the main feature of the Custom Filament range. A two tier pendant is illustrated below with installations shown at bottom and opposite. Steel frames can be virtually any finish and diameter with any other shapes and sizes to clients' specification. Please contact Chelsom with your ideas and concepts.



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# 

Wall & Ceiling 243



Features: Laser cut metalwork allows an infinite range of designs to clients' specification using various metal finishes amd shade fabrics. Geometric and random patterns can be created along with client logos, room numbering, and navigational lighting. The pendant below features laser cut random rings below an Opal acrylic diffuser and an Oyster outer fabric. Clients' sketches will be turned into 3D renderings (as opposite) for approval.



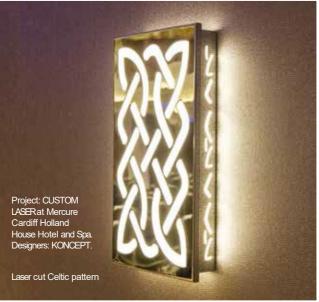


Laser cut geometric wall light











8 E









Materials:Finish: PolishedSteel andNickel with frostedglass.glass diffuser.

downlight. Small ventilation holes allow light spill and heat escape. Available as standard with three pendants on a ceiling plate or as an individual unit, the range can be adapted for multi pendant use as shown opposite.





### SILVER SCULPTURE







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### SILVER SCULPTURE



Material:

Finish:

Features: For SS/21/SI/IVPL





Shades: Pendant SS/21/SI is shown with a pleated Ivory shade (MPL). Other plain fabrics available (please enquire). Pendant shades have parchment bottom diffusers. See back of catalogue for optional shades.



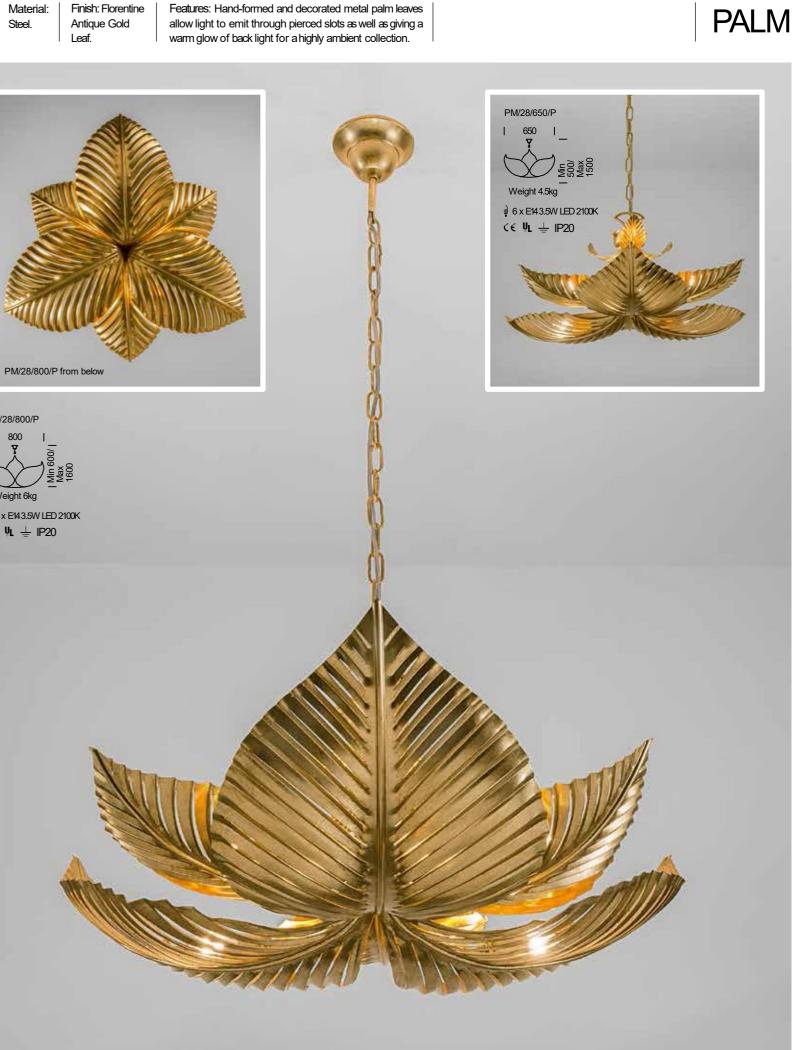
See previous pages for further design options.

### SILVER SCULPTURE





Finish: Florentine Material: Steel.





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254

### ARTICHOKE

Materials:Finish: FlorentineFWrought ironAntique Goldmand steel.Leaf.leaf.

AC/79/12 1 710 Weight 16kg № 12x E143.5W LED 2100K
 C € UL ± IP20 Also AC/79/9 650 Т Weight 9kg 9 x E143.5W LED 2100K  $\zeta \in \mathbb{V}_{L} \doteq \mathbb{I}_{P20}$ 

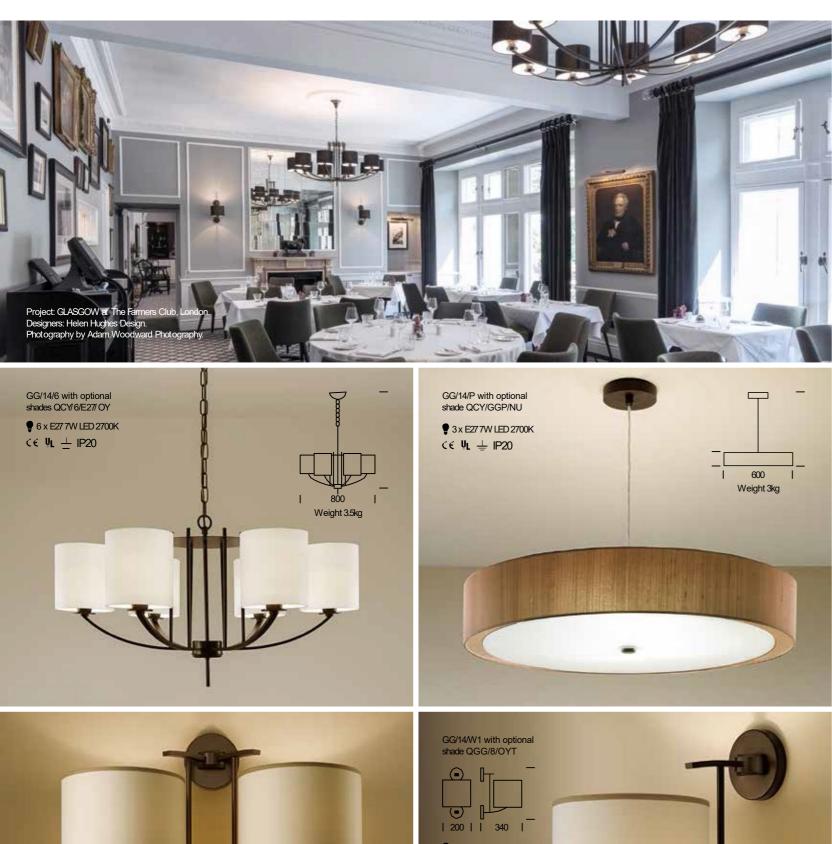




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### ARTICHOKE

### GLASGOW



Materials: Steel Finish: (frosted glass diffuser Penny for GG/14/P). Bronze.





2 x E27 7W LED 2700K

<€ ŸL ≟ IP20



Shades: Shades on this page are Oyster with Taupe trim (OYT). See back of catalogue for optional shades.

### GLASGOW

# LONDON



of catalogue for Cast brass Polished and steel. Chrome. optional shades. ....

Materials:

Finish:

Shades: See back

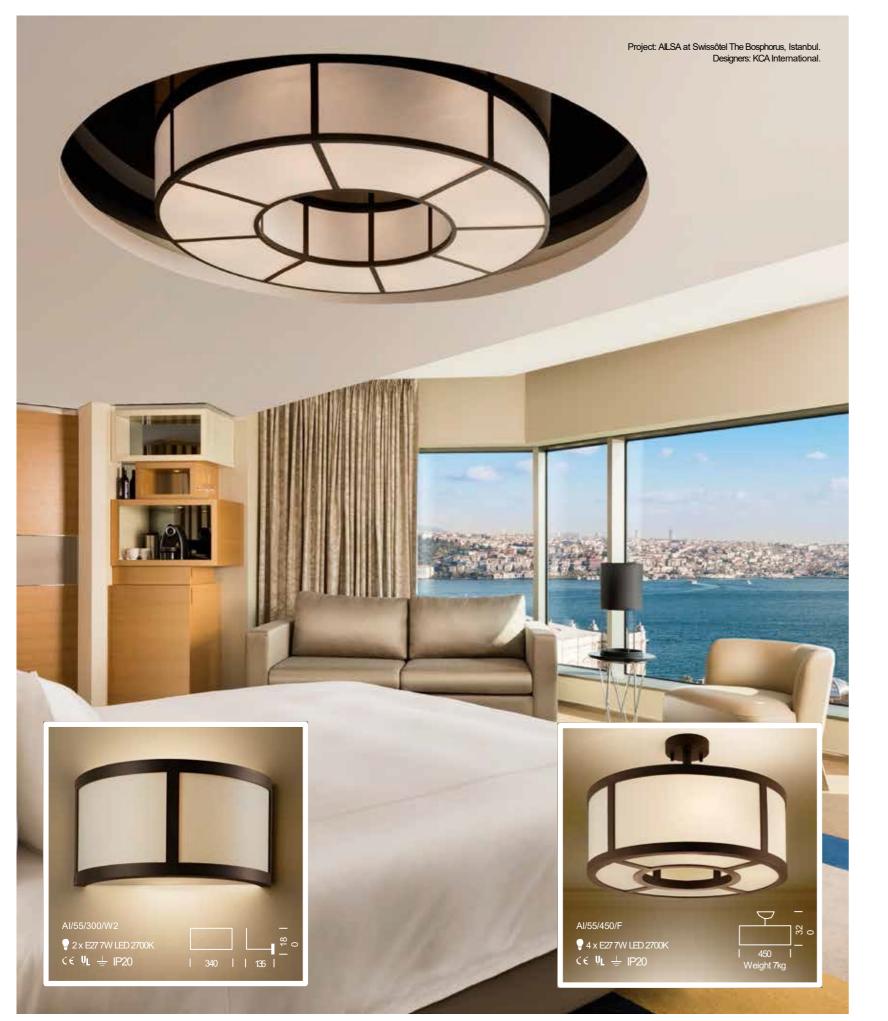
1180 Weight 10kg



### LONDON

# AILSA

Materials: SteelFinish: Penny BronzeFeatures: Opal acrylic top diffuserswith cottonettewith Oyster fabricprevent dust and insect ingress and lift fabric. diffusers.



1200 Weight 23kg

2018



out for cleaning and maintenance.



# SPACE

Materials: SteelFinish: Steel Grey<br/>painted metalworkFeatures: High light output from architectural fittings to illuminate public spaces. Options<br/>available include special sizes, dimming, integral emergency lighting, mesh covers for open<br/>bowls to prevent dust and insect ingress and special metal colour finishes.



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SA/29/600/P

| 680 |

Weight 13kg

3x E27 7W LED 2700K

<€ UL ≟ IP20





Steel and with fabric shades - see back of fabric. catalogue for fabric options.

down the outside of the shades. The large pendant has an internal bottom self-fabric diffuser. Other finishes, sizes and shapes to special order.



WE/ 0/ 600/ TP 9 6 x E27 7W LED 2700K  $\zeta \in \Psi_L \doteq IP20$ WE/ 0/ 750/DU 8 x E27 7W LED 2700K  $\zeta \in \mathbf{U}_{\mathbf{L}} \perp \mathbf{IP20}$ WE/CON/750/GM 9 6 x E27 7W LED 2700K 1 1  $\zeta \in U_L \doteq IP20$ 

Materials: Steel

fabric options.

frames with various

Finishes: Suspension

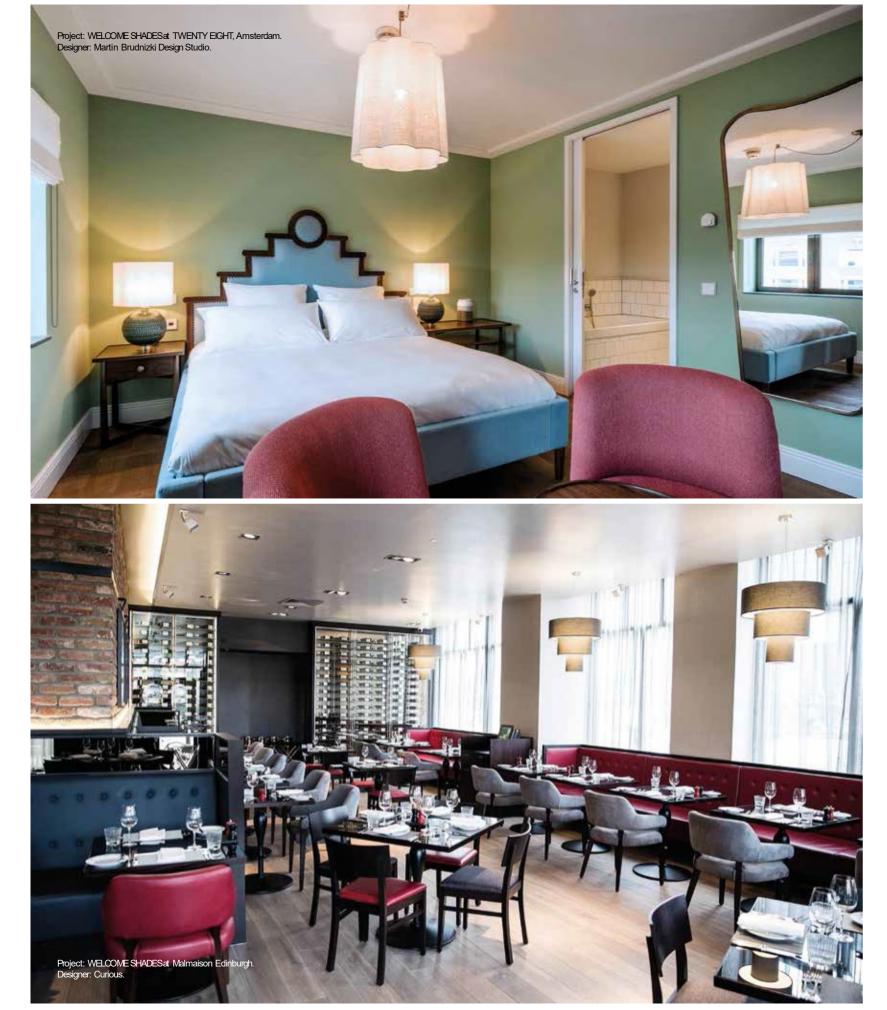
Features: Chelsom offer a vast selection of handmade pendant shades in fabrics, metalwork in Polished Chrome, designs and dimensions to suit clients' requirements. Standard designs are shown Brushed Nickel or paint finish. below with a selection of recent custom installations on the following two pages.

### WELCOME





Large scale shades in a variety of shapes, fabrics and designs help to create maximum impact in public spaces for the hospitality and marine industries. We have expertise in fabric selection, lamp options, light output, suspension systems, packing and delivery of feature pendant shades. Adjustable suspension wires allow for varied ceiling heights and most shades have top diffusers to prevent dust and insect ingress.



Materials: Steel frames with fabric diffusers.

Finish: Natural fabric with Oyster bottom diffusers on pendants.



Features: Fabric shades 'snap on' to backplates or ceiling plates for ease of installation and maintenance.



### SNAP



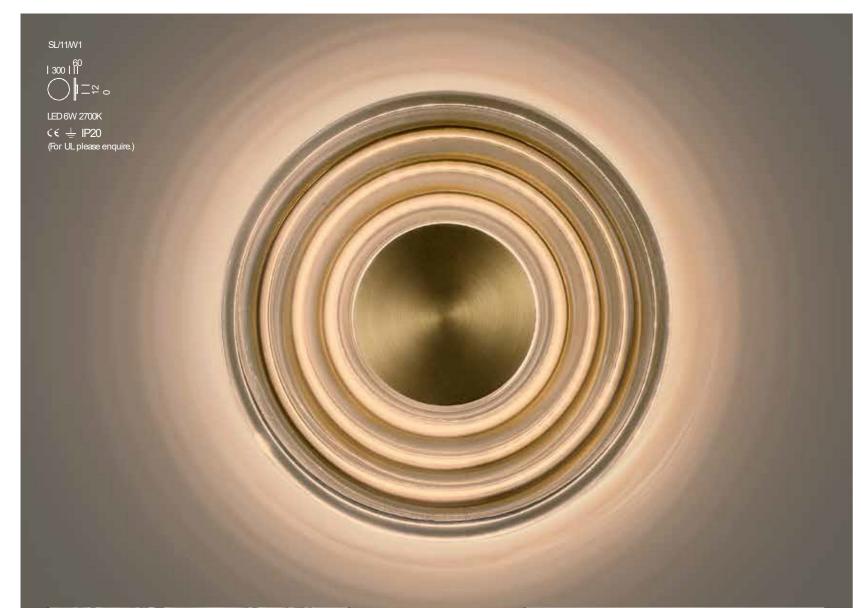
## SOLAR

Steel and glass.

Black Bronze with English Brass accents. Glass is Smoke.



LED 6W 2700K C € ≟ IP20 (For UL please enquire.)







Materials: | Finish: Metalwork is finished in | Features: Heavy circular glasses have deep concentric rebates creating a light effect of ripples on a pond. Wall lights also give a decorative spill of light onto walls. All models are dimmable, wall lights remotely and table lamp with knurled rotary switch.

### SOLAR







Materials: Steel Finish: Satin Black (BL) metalwork with various fabric options. metalwork.

Features: Shade shape creates striking light effect up and down plus reflected light. Shades shown are Black chintz with Brushed Copper lining (BL/COP) or Natural (NAT). Other shade fabrics to special order.

Project : SCONCE at The Grand Hotel, Lytham St. Annes. Designer: In-house Design Team.





Features: Slender elliptical tubes have concealed

# HOOP

### FEATURE WALL LIGHTS

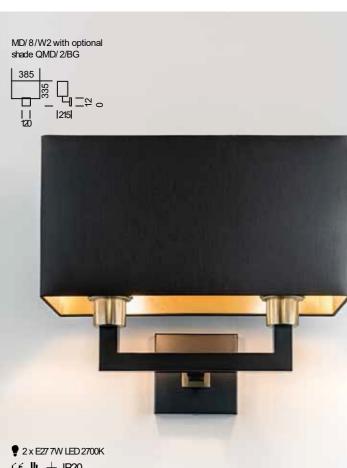


Feature Wall Lights shown here and on the following pages brings together a selection of wall lighting from the catalogue with design features or proportions that make them important pieces for public area or guestroom interior design schemes. There is a referral to the relevant page numbers within the catalogue.



## FEATURE WALL LIGHTS





<€ ŸL ⊥ IP20 See pages 45-47 for full range.



## FEATURE WALL LIGHTS

SO/ 34/W1

9 1x E27 7W LED 2700K

BE/68/W1/C with optional shade QBE/W1/GM

<€ ŸL ≟ IP20

| 300 |

Materials (SO/34/W1): Aluminium and steel. with Satin Black.

Features (SO/34/W1): Art Deco Finish (SO/34/W1): Polished aluminium design with deep vertical ribbing and Satin Black metal shade.



1x E27 7W LED 2700K <€ ŸL ⊥ IP20 See pages 35-37 for full range.

Feature Wall Lights brings together a selection of wall lighting from the catalogue with design features or proportions that make them important pieces for public area or guestroom interior design schemes.

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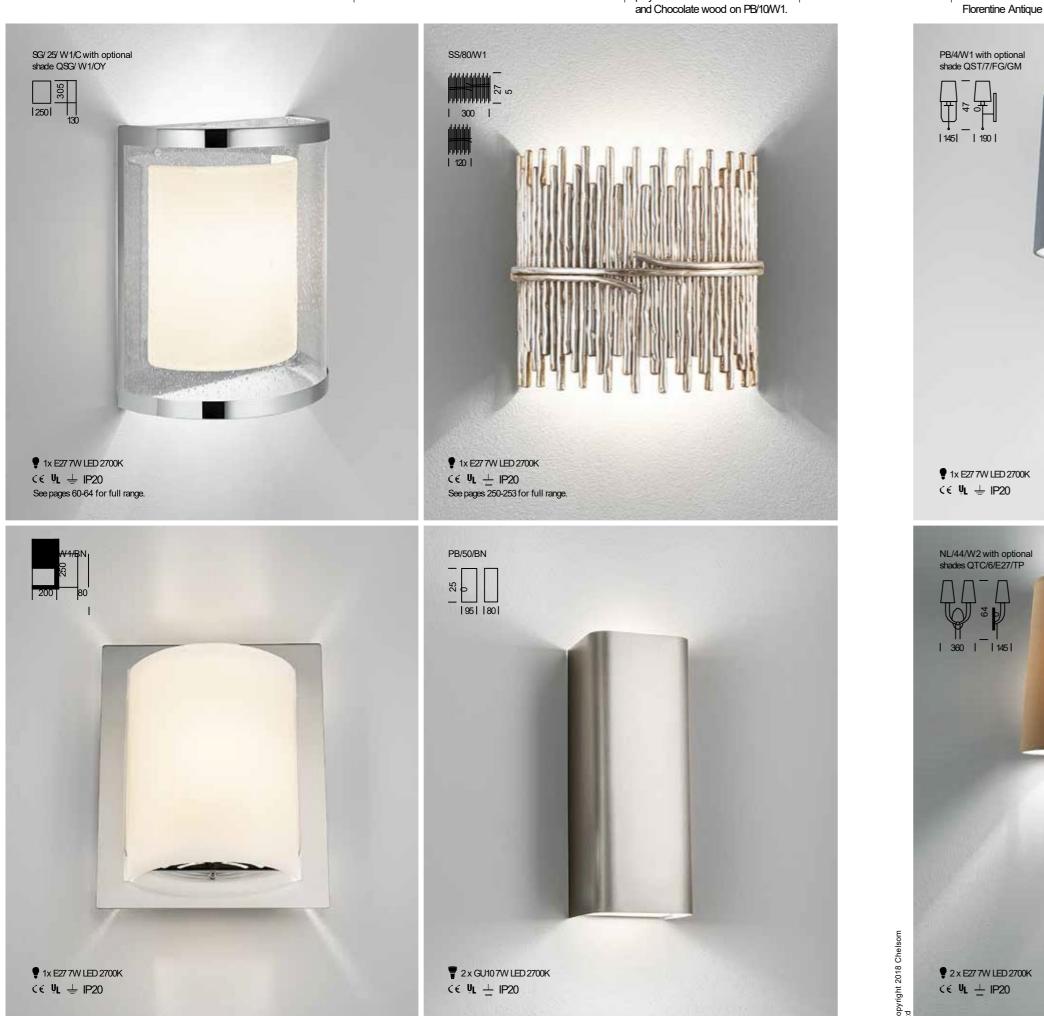
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9 1x E27 7W LED 2700K

<€ ŸL ≟ IP20 See pages 128-129 for full range.

## FEATURE WALL LIGHTS



Materials: Steel with glass on PB/4/W1 and GD/59/W1. Frosted polycarbonate on PB/70/W1/BN Finishes: Polished Chrome below with Brushed Nickel opposite for PB/70/W1/BN and PB/50/BN. SS/80/W1 Florentine Antique Silver Leaf.

Features: Public area wall lighting. PB/50/BN gives up and down light. GD/59/W1 features individual clear glass rods. Shade options at back of catalogue.

### FEATURE WALL LIGHTS





Shades: See

back

#### optional shades.

### METAL SCULPTURE

SS/3/W1 with optional shade QTC/6/E27/BS

F 2 ठ 0 -\_ | \_ | |150| |220|

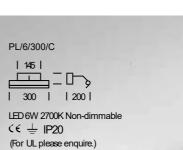
1x E27 7W LED 2700K  $\zeta \in \Psi_L \doteq IP20$ 

### CLASSIC PICTURE LIGHTS

Finishes: English Material: Bræss(⊞R)or Steel.

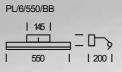
Features: Detailed backplates and swan neck arms with swivel joints support tubular Black Bronze (BB). canopies with anti-glare baffles on the front.

Finishes: Black Materials: Bronze (BB) or Steel with acrylic diffuser. | Polished Chrome (C). |









LED 12W 2700K Non-dimmable  $\zeta \in \pm IP20$ (For UL please enquire.)

Ś БG

Features: Adjustable slim head with front baffle to prevent glare. Warm white integral LED with frosted diffuser for good light output. Dimming options available for minimum order quantities.

## **PICTURE LIGHTS**





Finishes: Polished Pricing: Metalwork Features: Clear Materials: Solid brass and Nickel (PN) or clear glass. Polished Brass priced separately. (PB). KL/100/3/PN - Polished Nickel with glass KL/100/GS | 320 | Weight 3.5kg ) 3 x E14 3.5W LED 2100K  $\boldsymbol{\epsilon} \in \boldsymbol{\Psi}_{\mathbf{L}} \doteq \boldsymbol{\Pi}_{\mathbf{P}}$ KL/100/6/PB -Polished Brass with glass KL/150/GS 560 - L Weight 9.5kg ♦ 6 x E143.5W LED 2100K  $\boldsymbol{\epsilon} \in \boldsymbol{\Psi}_{\mathbf{L}} \doteq \boldsymbol{\Pi}_{\mathbf{P}}$ 



LED candle lamps recommended.

### KENSINGTON LANTERNS



### MAYFAIR LANTERNS

Materials: Solid brass, clear glass (frosted glass on request).

Finishes: Polished Nickel (PN) or subtle Antique Brass (AB).



Features: Clear LED candle lamps recommended except where optional shades are fitted (MY/122/L/PN).

### MAYFAIR LANTERNS





#### PRODUCT TECHNICAL SPECIFICATIONS

Every product included in the Edition 26 catalogue is shown with basic dimensions and technical specification. For full technical specification details please visit the Chelsom website <u>www.chelsom.co.uk</u> from where Product Specification Sheets can be downloaded.

#### TECHNICAL SPECIFICATION KEY

The following symbols or technical comments appear throughout Edition 26.

- CE Symbol (Conformité Européene) Denotes () compliance with relevant European electrical safety regulations. ΥL UL Symbol (Underwriters Laboratory) Denotes compliance with relevant USA and Canadian electrical safety regulations for lighting products. Class I Symbol Denotes the electrical safety class of the product - earth included. Class II Symbol Denotes the electrical safety dass of the product - double insulated. IP20 (Ingress Protection) IP20 Denotes protection against dust or water ingress - normal internal use excluding bathrooms. IP44 (Ingress Protection) IP44 Denotes protection against dust or water ingress - normal bathroom use. IP65 (Ingress Protection) IP65 Denotes protection against dust or water
- ZONE 1 Zone 1in Bathrooms The area above that defined by the perimeter of the bath or shower tray.

ingress - shower/bath area use or outdoors.

- ZONE 2 Zone 2 in Bathrooms The area adjoining the bath or shower tray up to a distance of 600mm.
- 2700K Colour Temperature Denotes colour temperature measured in Kelvins (2200K to 3000K within the standard range).



USB Symbol Denotes product which comes with integral USB charging port with 2.0A output.

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#### INTERNATIONAL ELECTRICAL STANDARDS

Chelsom can wire in-house to meet all international standards. Luminaires are constructed and tested to comply with the Electrical Equipment (Safety) Regulations 1994 with reference to BSEN 60598 – 12015 and with the applicable BSEN 60598 Part 2 standard. Most of the range has UL approval and almost all luminaires can be wired for 110/or 230V.

#### LIGHT CALCULATIONS

The experienced Chelsom consultants are pleased to visit site and discuss lighting schemes and light calculations with clients. Either lux level readings can be taken on site or calculations can be made at Head Office from architects' drawings and plans. Advice can be given on the location, quantity and type of light sources required.

#### EMERGENCY LIGHTING

Whether emergency lighting is required within individual luminaires or is installed remotely, Chelsom are knowledgeable in all aspects of emergency lighting requirements. Please contact the Technical Team to discuss legal requirements and how those standards might be met with Chelsom lighting.

#### TRADE ASSOCIATION MEMBERSHIPS

### TECHNICAL REFERENCE

#### CABLE AND PLUGS

Cable colour will be selected to complement the finish of the luminaire. Portable luminaires will normally have 2 metres cable length from the base to a 13 amp UK plug (fused 3 amp). 5 amp plugs and many international plugs are available.

#### PENDANT LUMINAIRES

Pendants are normally supplied with 2000mm of suspension chain or cable and all have ceiling plates. Refer to the website for full technical specifications and installation instructions. To facilitate maintenance of larger pendants in high-ceilinged rooms, we can advise upon and arrange installation of manual or power winches.

#### DIMENSIONS AND WEIGHTS

Minimum heights shown for pendants include one link of chain, where applicable, and the ceiling plate. Maximum heights include the above plus the normal amount of chain supplied (extra lengths available on request). Weights for pendants are shown and include glass where illustrated. Portable luminaire base only heights are measured including lampholder cover and heights with shade relate to the shade illustrated. Projection is the maximum distance any part of a wall light extends from the wall including shade if shown.



Pages 292-295 illustrate the standard Chelsom shade collection showing technical information and fabrics available. Other individual or range specific shades are shown throughout the catalogue and we welcome enquiries for any special shapes, designs or fabrics. Shades are handmade with white epoxy coated three or four strut frames (gold struts when shades have gold lining) and have E27 fixed gimbal as standard.

QST – SHALLOW TAPERED with frosted acrylic top diffuser with ventilation hole | 150Ø | 300Ø 125Ø 250Ø 110Ø 40W 130 40W 60W 170 40W 150 60W 150 | 130Ø | | 150Ø | 180Ø 300Ø 350Ø QST/12/\* QST/6/E14/\* QST/7/\* QST/5/E14/\* QST/14/\* 520Ø 470Ø 430Ø 380Ø 340Ø 100W 290 100W 260 240 100W 60W 220 60W 190 400Ø 450Ø 500Ø 550Ø 600Ø QST/16/\* QST/18/\* QST/20/\* QST/22/\* QST/24/\* QFD - FRENCH DRUM 340Ø 300Ø 260Ø 210Ø 160Ø 180Ø 60W 60W 300 60W 40W 60W 220 200 60W 180 200Ø 250Ø 300Ø 350Ø 400Ø 450Ø QFD/8/\* QFD/10/\* QFD/12/\* QFD/14/\* QFD/16/\* QFD/18/\* QCY - CYLINDER 40W 160Ø Q¢Y/6/E27/ 180Ø 350Ø 500Ø 400Ø 450Ø QCY/7/TALL/\* QCY/14/\* QCY/16/\* QCY/20/\* QCY/18/\*



### QRTS - ROUNDED TAPERED SQUARE

40W 200

135Ø

180Ø

60W

250 x 140

QEL/10/\*

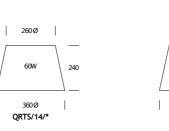
400 x 200

QEL/16/\*

QRTS/7/\*

60W 200 300Ø ORTS/12/\*

220Ø



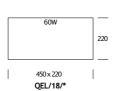
60W 460Ø QRTS/18/\*

330Ø

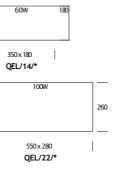


140

300 x 160 QEL/12/\*



300 × 140 QEL/12H/\* 500 x 250 QEL/20/\*

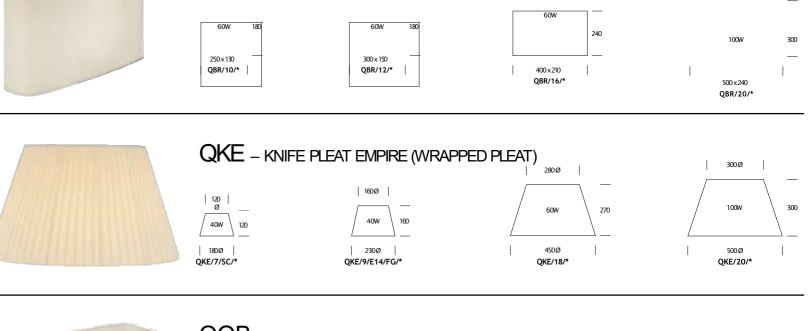


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E44 or spring clip fixings are also available (denoted by model number if standard). Snap-in converter rings are available to change E27 to E14/B22/B15. Wipeable shade fabric is available in White or Off White. Maximum recommended lamp wattages are shown within line drawings.





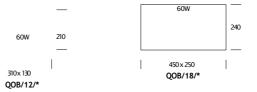


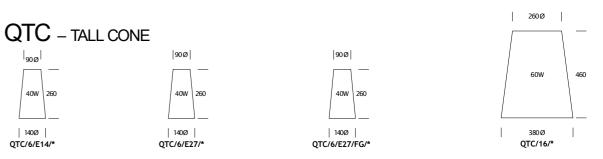
\* Please add colour suffix when ordering (see overleaf).



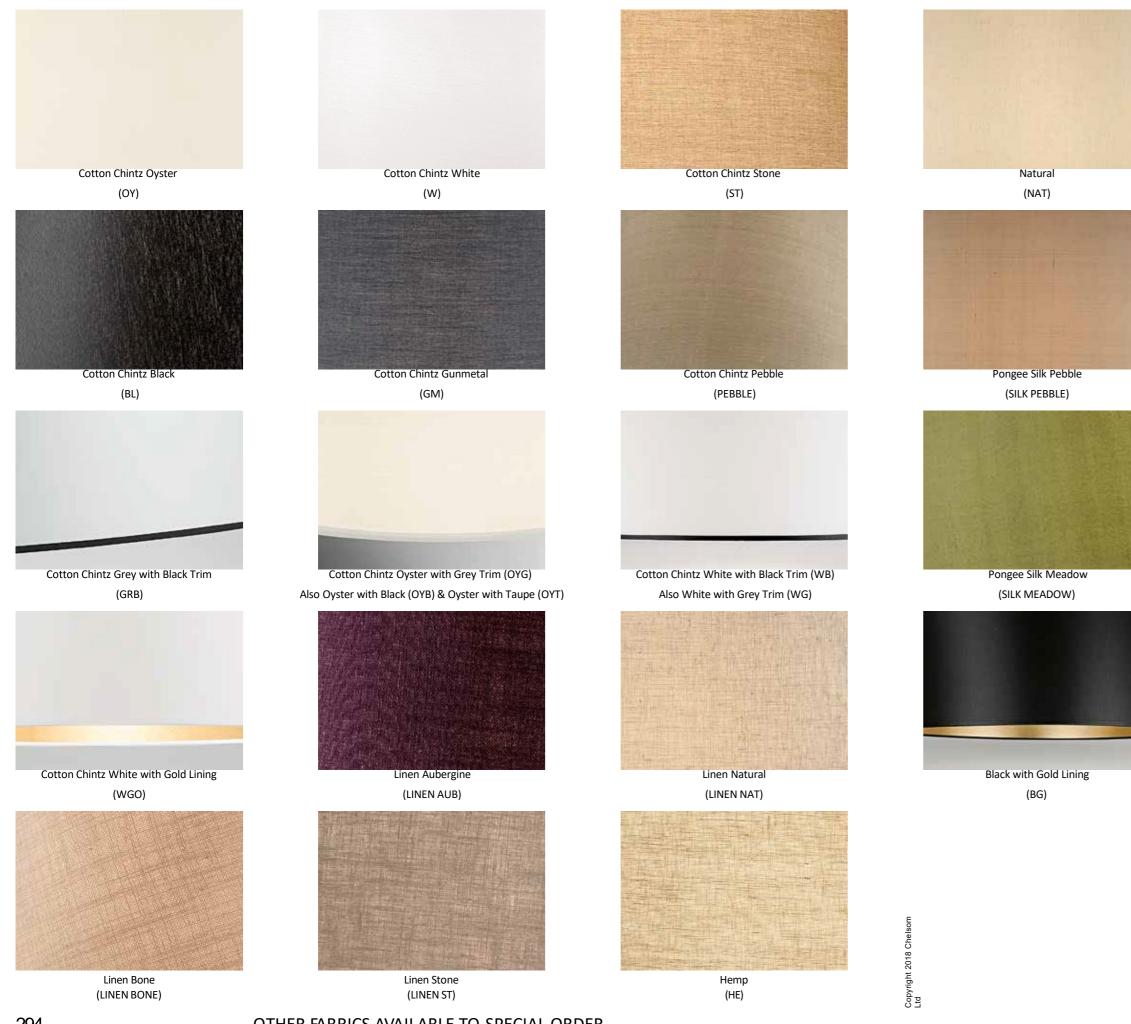
### QBR – BOWED RECTANGLE

### QOB - OBLONG





### SHADE FABRIC OPTIONS



### SHADE FABRIC OPTIONS



(SILK PUTTY)



(SILK KELP)



Pongee Silk Herb (SILK HERB)



Black with Silver Lining (BS)



(SILK THIMBLE)



Pongee Silk Gunmetal (SILK GM)



(IVPL)



Black with Copper Lining (BL/COP)

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### **TERMS & CONDITIONS**

#### 1. Interpretation

#### 1.1 In these Conditions

### y the Seller. Buyer means the person whose Order for Goods and/or Services is Ortollions means the standard terms and conditions of sale set out in this

accepted and (unless the context otherwise requires) includes any special terms and conditions agreed in Writing between the Buyer and the Seller. 'Contract' means the contract for the sale and purchase of the Goods and/or Services between the Seller and the Buyer as set out in the Order and subject to these Conditions 'Goods' means goods which the Seller is to supply to the Buyer as set out in the

Order in accordance with these Conditions

'Incoterms' means the international rules for the interpretation of trade terms of the International Chamber of Commerce as in force at the date when the Contract is made.

'Order' means any Written order of the Buver which is accepted by the Seller Seller' means CHELSOM LIMITED registered in England under number 626933 and whose registered office is situated at Heritage House, Clifton Road, Blackpool FY4 4QA.

'Seller Materials' means all materials, equipment, documents and other property of the Seller. 'Services' means the services which the Seller is to supply to the Buver as set out

in the Order in accordance with these Conditions. 'Writing' subject to clause 151 includes facsimile and comparable means of

tten communication including electronic mail. 2 Any reference in these Conditions to any provision of a statute shall be

construed as a reference to that provision as amended, re-enacted or extended at the time of contract.

3. The headings in these Conditions are for convenience only and shall not affect their interpretation.

4.All of these Conditions shall apply to the supply of both Goods and Services except where application to one or the other is specified. 5.Any phrase introduced by the terms 'including', 'include', 'in particular' or any similar expression shall be construed as illustrative and shall not limit the sense of

#### the words preceding those terms.

1. The Seller shall sell and the Buver shall purchase the Goods and/or the Services in accordance with any Order, subject to these Conditions, which shall govern the Contract to the exclusion of any other terms and conditions subject to which any such Order is made or purported to be made, by the Buyer or which are implied by trade, custom, practice or course of dealing, 2.No variation to these Conditions shall be binding unless agreed in Writing between the authorised representatives of the Buyer and the Seller, and no

condition, warranty or other term of any order or acceptance of a quotation submitted by the Buyer or which the Buyer may seek to impose shall apply to the Selle 3. The Seller's employees or agents are not authorised to make any

representations concerning the Goods and/or the Services unless , confirmed by the Seller in Writing. The Contract constitutes the entire agreement between the parties. The Buyer acknowledges that it has not relied on any statement, pror representation, assurance or warranty made or given by or on behalf of the Seller which is not set out in the Contract.

4.Any advice or recommendation given by the Seller or its employees or agents to the Buyer or its employees or agents as to the storage, application or use of the Goods which is not confirmed in Writing by the Seller is followed or acted on entirely at the Buyer's own risk, and accordingly the Seller shall not be liable for any such advice or recommendation which is not so confirmed. 5. Any samples, drawings, descriptive matter or advertising issued by the Seller and any illustrations or descriptions of the Services contained in the Seller's cat alogues or brochures are issued or published for the sole purpose of giving an approximate idea of the Services and/or Goods described in them. They shall

not form part of the Contract or have any contractual force. 6.Any typographical, clerical or other error or omission in any sales literature. catalogue, quotation, price list, acceptance of offer, invoice or other document or information issued by the Seller shall be subject to correction without notice

to the Buyer and without any liability on the part of the Seller. 7. In the event of any conflict between the provisions of an order submitted by the Buyer and the provisions of any quotation or order acknowledgement

is working the **Sol Sport linear Constitutions**, the provisions of the quotation, order accrowledgement for these Conditions (as applicable) shall prevail. 1 An order submitted by the Buyer constituties an offer by the Buyer to purchase Goods and/or Services in accordance with these Conditions. No orde submitted by the Buyer (whether or not submitted pursuant to a quotation issued by the Seller) shall be deemed to be accepted by the Seller unless and

1.it is confirmed in Writing by the Seller's authorised representative; or 2.the Seller delivers the Goods (or any instalment) and/or commences the supply of the Services, whichever occurs first, on which date the Contract shall come into existence. Any quotation given by the Seller shall not constitute an offer, is only valid for a period of 45 days from its date of issue and may be withdrawn by the Seller at any time before the Contract is formed. 2.The Buyer shall be responsible to the Seller for ensuring the accuracy of the terms of any Order (including any applicable specification) submitted by the Buver, for giving the Seller any necessary information relating to the Goods and or Services within a sufficient time to enable the Seller to perform the Contract in accordance with its terms and for providing any materials the Seller may reasonably require to supply the Services.

3. The quantity, quality and description of and any specification for the Goods shall be those set out in the Order (and the Buyer must satisfy itself as to specification, quality, description and fitness for purpose of the Goods). 4. The Seller shall provide the Services (if any) to the Buyer in accordance with the Order in all material respects.

5 If the Goods are to be manufactured any process is to be applied to the Goods or the Services are to be provided by the Seller in accordance with a specification submitted by the Buyer, the Buyer shall indemnify the Seller against all liabilities, losses, damages, costs and expenses awarded against or incurred by the Seller in connection with or paid or agreed to be paid by the Seller in settlement of any claim for infringement of any patent, copyright, design, trade

mark or other industrial or intellectual property rights of any other party which results from the Seller's use of the Buyer's specification. 6.Notwithstanding clause 9.1 the Seller reserves the right to make any changes in the specification of the Goods and/or the Services which are required to conform with any applicable law or safety requirement, statutory or European Union requirements or, where the Goods are to be supplied to the Seller's specification, which do not materially affect their quality or performance 7.No Order may be cancelled by the Buyer except with the agreement in

Writing of the Seller and then only on terms that the Buyer shall indemnify the Seller in full against all liabilities, losses (including loss of profit), costs, (including ost of all labour and materials used), damages, charges and expenses the cost of all labour and instruction accord in the cost of cancellation.

3.8 The Goods will on delivery comply with the Electrical Equipment Safety Buyer is collecting the Goods; or

Regulations in accordance with BS EN 60598-1:2015 and with the applicable 7.2.2 on arrival at the agreed delivery location if the parties have agreed that the BS FN

40 50 Per distigations unless local regulations specify otherwise 1. The Buyer shall:

1 ensure that the terms of the Order and (if submitted by the Buyer) of any specification of Goods and/or Services are complete and accurate; co-operate with the Seller in all matters relating to the Goods and Services:

3.provide the Seller, its employees, agents, consultants and subcontractors, with access to such premises, office accommodation and other facilities as reasonably required by the Seller to provide the Goods and/or the Services 4.provide the Seller with such information and materials as the Seller may reasonably require to supply the Services, and ensure that such information is accurate in all material respects:

prepare the Buver's premises for the supply of the Services:

6. obtain and maintain all necessary licences, permissions and consents which may be required for the Services before the date on which the Services are to

7 keep and maintain all Seller Materials at the Buver's premises in safe custody at s own risk, maintain the Seller Materials in good condition until returned to the Seller, and not dispose of or use the Seller Materials other than in accordance with the Seller's written instructions or other authorisatio 2. If the Seller's performance of any of its obligations in respect of the Goods and/or Services is prevented or delayed by any act or omission by the Buyer or failure by the Buyer to perform any relevant obligation (Buyer Default): 1.the Seller shall without limiting its other rights or remedies have the right to suspend performance of the relevant obligations until the Buver remedies the Buyer Default, and to rely on the Buyer Default to relieve it from the performance of any of its obligations to the extent the Buyer Default prevents

or delays the Seller's performance of any of its obligations; 2.the Seller shall not be liable for any costs or losses sustained or incurred by the

Buyer arising directly or indirectly from the Seller's failure or delay to perform any of its obligations as permitted in this clause 4: and 3.the Buyer shall reimburse the Seller on written demand for any costs o

#### ses sustained or incurred by the Seller arising directly or indirectly from the SuPerice afithe Goods and/or Services

1. The price of the Goods and/or Services shall be the Seller's quoted price, or where no price has been quoted (or a quoted price is no longer valid), the price listed in the Seller's published price list current at the date of acceptance of the order. Where the Goods are supplied for export from the United Kingdom, the Seller's published export price list shall apply. All prices quoted are valid for 45 days provided that the Seller has not previously withdrawn it.

2. The Seller reserves the right, by giving notice to the Buyer at any time before delivery, to increase the price of the Goods and/or Services to reflect any increase in the cost to the Seller which is due to any factor beyond the control of the Seller (such as any foreign exchange fluctuation, currency regulation, alteration of duties significant increase in the cost of labour materials or other costs of manufacture), any change in delivery dates, quantities or specifications for the Goods and/or Services which is requested by the Buyer or any delay caused by any instructions of the Buyer or failure of the Buyer to give the Seller

adequate information or instructions. 3Except as otherwise stated under the terms of any Written quotation or in any price list of the Seller and unless otherwise agreed in Writing between the Buyer and the Seller, all prices are given by the Seller on an ex-works basis and where the Seller agrees to deliver the Goods otherwise than at the Seller's premises, the Buyer shall be liable to pay the Seller's charges for transport,

packaging and insurance. 4. The price is exclusive of any applicable value added tax (and any similar sales tax), which the Buver shall be additionally liable to pay to the Seller. 5.Should any duty, tax, levy or any other payment whatsoever be imposed by the European Union, or any of its member's national government, or any other government body, relating to the Goods and/or Services before their delivery, e Buyer shall bear the burden of such duty, tax, or other payment and the

#### 6 Jenns of Payment

1. The Seller shall at its option be entitled to require the Buyer to pay a deposit of all or part of the price of the Goods and/or Services in advance. 2.Subject to any special terms agreed in Writing between the Buyer and the Seller, the Seller shall at its option be entitled to submit an invoice for payment from the Buver for the price of the Goods and/or Services upon the occurrence of any one of the following:

upon or after the giving of a quotation to the Buyer; or

(b) upon or after formation of the Contract; or
 (c) at any time after delivery of the Goods; or

if the Buyer fails to take delivery of the Goods, at any time after the Seller has notified the Buyer that the Goods are ready for collection; or completion of the Services; or

monthly in arrears.

3. Unless otherwise specified by the Seller to the Buver prior to or at the time of submission of an invoice pursuant to this clause 6 the Buyer shall pay the price of the Goods and/or Services (less any discount to which the Buver is entitled and less any deposit already paid, but without any other deduction) within 30 days of the date of the Seller's invoice and the Seller shall be entitled to recover the price, notwithstanding that delivery may not have taken place and the property in any Goods has not passed to the Buyer. The time of payment of the price shall be of the essence of the Contract. Receipts for payment will be issued only upon request

4. If the Buyer fails to make any payment on the due date then, without prejudice to any other right or remedy available to the Seller, the Seller shall be

1.cancel the Contract; or

suspend any further deliveries to the Buyer, and/or

suspend the provision of the Services or any part of them; and 4 appropriate any payment made by the Buyer to such of the Goods and o Services (or the goods and/or services supplied under any other contact between the Buyer and the Seller) as the Seller may think fit (notwithstanding any purported appropriation by the Buyer); and

5 charge the Buver interest (both before and after any judgment) on the amount unpaid from the due date for payment, at the rate of 8 per cent per annum above the HSBC Bank base lending rate accruing on a daily basis until payment is made or under the Late Payment of Commercial Debts (Interest) Act 1998

1. Delivery of Goods shall be made by the Buyer collecting the Goods at the Seller's premises at any time after the Seller has notified the Buyer that the Goods are ready for collection, or if some other place for delivery is agreed by be Seller, by the Seller delivering the Goods to that place.
 Delivery of Goods shall be completed:

721 on the completion of loading of the Goods at the Seller's premises if the

7.2.3 where clause 12(Export Terms) applies, in accordance with the relevant Seller is delivering and the Goods; o

3.Any dates quoted for delivery of the Goods and/or provision of the Services are approximate only and to the extent permitted by applicable law the Seller shall not be liable for any damage or inconvenience due to the delay in delivery of the Goods or performance of the Services howspever caused. Time for delivery of the Goods and/or performance of the Services shall not be of the essence of the Contract unless previously agreed by the Seller in Writing. The Goods may be delivered and the Services performed by the Seller in advance o the quoted delivery date upon giving reasonable notice to the Buyer. 4.Where Goods are to be delivered in instalments, each delivery shall constitute a separate contract to which all of these Conditions shall apply and failure by the Seller to deliver any one or more of the instalments in accordance with these Conditions or any claim by the Buyer in respect of any one or more instalments shall not entitle the Buyer to treat the Contract as a whole as repudiated. 5. If the Seller fails to deliver the Goods (or any instalment) or provide the Services (or any part of them) for any reason other than any cause beyond the Seller's reasonable control or the Buver's fault, and the Seller is accordingly liable o the Buyer, the Seller's liability shall be limited to the excess (if any) of the cos to the Buyer (in the cheapest available market) of similar goods and/or services o replace those not delivered over the price of the Goods and/or Services. 6. If the Buver fails to take delivery of Goods or fails to give the Seller adequate ivery instructions at the time stated for delivery (otherwise than by reason of any cause beyond the Buyer's reasonable control or by reason of the Seller's fault) then, without prejudice to any other right or remedy available to the Selle the Seller may at the Seller's option: 1.store the Goods until actual delivery and charge the Buyer for the

reasonable costs (including insurance) of storage; or 2sell the Goods at the best price readily obtainable and (after deducting all

reasonable storage and selling expenses) account to the Buver for the excess ver the price under the Contract or charge the Buyer for any short fall below the price under the Contract. 8. Risk and Property

Risk of damage to or loss of the Goods shall pass to the Biver 1. in the case of Goods to be delivered at the Seller's premises, at the time when the Seller notifies the Buyer that the Goods are available for collection: or 2.in the case of Goods to be delivered otherwise than at the Seller's premises, at the time of delivery or, if the Buyer fails to take delivery of the Goods, the time when the Seller has tendered delivery of the Goods. 2. Notwithstanding delivery and the passing of risk in the Goods, or any other provision of these Conditions, Goods supplied under the Contract shall remain the sole and absolute property of the Seller and property and title in the Goods shall not pass to the Buyer until:

1 the Seller has received in cash or cleared funds payment in full of the price of the Goods and in respect of all other goods agreed to be sold by the Seller to the Buver for which payment is then due (including VAT and interest thereon); or 2.the Seller notifies the Buyer in writing that title in the Goods has passed to the River

3. Until such time as the property and title in the Goods passes to the Buyer, the Buver shall:

1.keep the Goods separate from those of the Buyer and third parties and properly stored, protected and insured (for their full price) and identified as the er's property;

2.not remove, deface or obscure any identifying mark or packaging on or relating to the Goods;

3. maintain the Goods in satisfactory condition having regard to the nature of the

4.notify the Seller immediately if the Buyer becomes subject to any of the events set out in clause 10.1, and

5 give the Seller such information relating to the location and condition of the Goods as the Seller may require from time to time. 4.Subject to clause 8.5 the Buyer shall be entitled, before the time at which

property and title would ordinarily pass in accordance with clause 8.2, to resel with good title or use the Goods in the ordinary course of its business (but not otherwise). If the Buyer resells the Goods before that time, it shall do so as principal (and not as the Seller's agent), title to the Goods shall pass from the Seller to the Buyer immediately before the time when title to the Goods passe from the Buyer to its purchaser.

5. If, before property and title in the Goods passes to the Buyer, the Buyer becomes subject to any of the events set out in clause 10.1 then, without limiting any other right or remedy the Seller may have:

1.the Buver's right to resell or use the Goods in the ordinary course of its cases immediately; and

2.the Seller may at any time: (a) require the Buyer to deliver up all Goods in s possession which have not been resold or irrevocably incorporated in another product; and (b) if the Buyer fails to do so promptly, enter any of the er's premises or premises of any third party where the Goods are, or an reasonably likely to be, stored in order to recover them.

6.The Buyer shall not be entitled to pledge, create a lien over, or in any way charge by way of security for any indebtedness any of the Goods which remain the property of the Seller, but if the Buyer does so all monies owing by the Buyer to the Seller shall (without prejudice to any other right or remedy of the Seller)

#### WARRANNES AND LIMPLATION OF LIABILITY

TO DESTRUCTION OF THE SECOND AND A SECOND A OTHERWISE STATED, BEFREE FROM MATERIAL DEFECTS IN MATERIAL AND WORKMANSHIP ON DELMERY TO THE BUYER AND FOR A PERIOD OF TWO YEARS FROM THE DATE OF DELIVERY TO THE BUYER. 2. The above warranty is given by the Seller subject to the following conditions

1 the Seller shall not be liable for the Goods' failure to comply with the above warranty if the Buyer or any third party makes any further use of such Goods after giving notice in accordance with clause 94.

2.the Seller shall be under no liability in respect of any defect in the Goods arising from any drawing, design or specification supplied by the Buver: 3.the Seller shall be under no liability in respect of any defect in the Goods arising from fair wear and tear, wilful damage, negligence, abnormal working conditions, failure to follow the Seller's instructions (whether oral or in Writing) or (if there are none) good trade practice, misuse or alteration or repair of the oods without the Seller's approval;

4 the Seller shall be under no liability under the above warranty (or any other warranty, condition or guarantee) if the total price for the Goods has not beer paid by the due date for payment:

5.the above warranty does not extend to parts, materials or equipment not manufactured by the Seller, in respect of which the Buver shall only be entitled to the benefit of any such warranty or guarantee as is given by the manufacture

#### to the Seller

9.3 SUBJECT AS EXPRESSLY PROVIDED IN THESE CONDITIONS. COMMON LAW ARE EXCLUDED TO THE FULLEST EXTENT PERMITTED BY

STAT UTE 99 the Buyer which is based on any defect in the quality or condition of the Goods or their failure to correspond with description must (whether or not delivery is refused by the Buyer) be notified in Writing to the Seller (a) within 7 days from the date of delivery to the Buyer or (where the Buyer has purchased the Goods for resale) within 7 days from the date of delivery to the Buyer's customer or within one month of delivery to the Buyer whichever is sooner; or (b) (where the defect or failure was not apparent on reasonable inspection) within a reasonable time (not exceeding 7 days) after discovery of the defect or failure or after such defect or failure ought reasonable to have been discovered (by the Buyer or its customer, as applicable) and in any event within two years after delivery to the Buyer. If the Buyer notifies the Seller of any such defect, the Buyer must provide the Seller with a reasonable opportunity of examining such Goods and (if asked to do so by the Seller) must return such Goods to the Supplier. If delivery is not refused, and the Buyer does not notify the Seller of a defect and/or provide the Seller an opportunity for inspection and/or return the Goods (if requested) in accordance with this clause 94, the Buyer shall not be entitled to reject the Goods and the Seller shall have no liability for such defect or failure, and the Buyer shall be bound to pay the price as if the Goods had been delivered in accordance with the Contract. . 5.Where any valid claim under clause 9.1arises in respect of any of the Goods based on any defect in the quality or condition of the Goods or their failure to meet description and the Buver fulfils its obligations under clause 94, the Seller shall, at its option, replace the Goods (or the part in question) free of charge or, a the Seller's sole discretion refund to the Buyer the price of the Goods (or a proportionate part of the price) or rectify the said defect at the Seller's cost, but the Seller shall have no further liability to the Buver in respect of such Goods' failure to comply with the applicable warranty in clause 9.1 The terms of these Conditions shall apply to any replacement Goods supplied by the Seller. 6SUBJECT TO CLAUSE 9.8. THE SELLER SHALL NOT BELIABLE TO THE BUYER UNDER ANY CIRCUMSTANCES (WHETHER IN CONTRACT.

TORT (INCLUDING NEGLIGENCE), BREACH OF STATUTORY DUTY, OR OTHERWISE) FOR ANY SPECIAL INDIRECT OR CONSEQUENTIAL LOSS OF DAMAGE, COSTS, EXPENSES OR OTHER CLAIMS FOR CONSEQUENTIAL COMPENSATION WHATSOEVER: ANY LOSS OF PROFIT: ANY LOSS OF BUSINESS OR BUSINESS OPPORTUNITY: OR LOSS OF ANTICIPATED SAVING (AND WHETHER CAUSED BY THE NEGLIGENCE OF THE SELLER, ITS EVPLOYEES OR AGENTS OR OTHERWISE), WHICH ARSES OUT OF OR IN CONNECTION WITH THE SUPPLY OF THE GOODS AND/ OR SERVICES OR THERUSE OR RESALE BY THE BUYER.

7. The Seller shall not be liable to the Buver or be deemed to be in breach of the Contract by reason of any delay in performing, or any failure to perform, any of the Seller's obligations in relation to the Goods and/or Services, if the delay or failure was due to any cause beyond the Seller's reasonable control. Without prejudice to the generality of the foregoing, the following shall be regarded as auses beyond the Seller's reasonable of

1.act of God. explosion, flood, tempest or other extreme weather

conditions, fire or accident; 2. earthquake, subsidence, epidemic or other natural disaste 3 war or threat of war sabotage insurrection, civil disturbance, riot or requisition or acts or threat ened acts of terrorism;

4 acts, restrictions, regulations, bye-laws, prohibitions or measures of any kind on the part of the governmental, parliamentary or local authority;
 import or export regulations or embargoes;

6.impossibility of the use of railways, shipping, aircraft, motor transport or other means of public or private transport;

7 strikes lock-outs or other industrial actions or trade disputes (whether involving employees of the Seller or of a third party); 8. difficulties in obtaining raw materials, labour, fuel, parts or machinery;

9. interruption or failure of utility service or failure of public or private telecommunications networks; or 10. power failure or breakdown in machinery.

8.No provision contained in this these Conditions shall exclude or limit the liability of the Seller for death or personal injury caused by the negligence of the Seller or its employees, agents or subcontractors, fraud or fraudulen misrepresentation of the Seller, any breach of the terms implied by section 2 of the Supply of Goods and Services Act 1982 (title and quiet possession) or any breach of the terms implied by section 12of the Sale of Goods Act 1979 (title

and quiet possession) or any other matter for which the Seller may not exclude or limit its liability under applicable law . 9SUBJECT TO CLAUSE 9.8. THE SELLERS TOTAL LIABILITY TO THE BUYER

IN RESPECT OF ALL LOSSES ARISING UNDER OR IN CONNECTION WITH THE CONTRACT (WHETHER IN CONTRACT, TORT (INCLUDING NEGLIGENCE), BREACH OF STATUTORY DUTY, OR OTHERWISE), SHALL IN NO CIRCUMSTANCES EXCEED THE PRICE PAID BY THE BUYER FOR THE GOODS.

AND SERVICES UNDER THE CONTRACT. 10. The Buver indemnifies the Seller in respect of all damage or injury to any person or loss of or damage to any property and against all actions, suits, claims,

demands costs charges or expenses arising at common law or under the consumer Protection Age 1987 or otherwise under statute as a result of any of

the clipinds and the second of the second se jable to pay its debis as they rail due of an interminent elements of the second secon view to rescheduling any of its debts, or makes a proposal or enters into any compromise or arrangement with its creditors;

3.a petition is filed, a notice is given, a resolution is passed, or an order is made, for or in connection with the winding up of the Buyer (being a company) other than for the sole purpose of a scheme for a solvent amalgamation or reconstruction;

if an administrator is appointed over the Buver (being a company):

attachment or process is not discharged within 14 days;

the events mentioned in clauses 10.11to 10.17 (inclusive);

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6.a creditor or an encumbrancer of the Buyer takes possession of, or a

become entitled to appoint or has appointed an administrative receiver.

9. the Buver suspends or threatens to suspend, or ceases or threatens to

cease, to carry on all or substantially the whole of its business or

### **TERMS & CONDITIONS**

4.the Buyer (being an individual) is the subject of a bankruptcy petition or

5 an application is made to court or an order is made for the appointment of an administrator or if notice of intention to appoint an administrator is given or

distress execution, sequestration or other such process is levied or enforced on or sued against, the whole or any part of the assets of the Buyer and such

7.(being a company) the holder of a qualifying charge over the Buyer's assets has

8.any event occurs, or proceeding is taken, with respect to the Buyer in any iurisdiction to which it is subject that has an effect equivalent or similar to any of 10.1.10 (being an individual) the Buyer dies, or by reason of illness or incapacity

is incapable of managing his or her own affairs or becomes a patient under 402 If this clause 10 applies then, without prejudice to any other right or remedy available to and the sais affer seler shall be entitled to cancel the Contract immediately upon written notice to the Buyer or suspend any other deliveries of Goods and/or performance of Services under the Contract without any liability to the Buyer, and if Goods have been delivered or Services provided but not paid

for the price shall become immediately due and payable notwithstanding any previous agreement or arrangement to the contrary.

#### 11. Consequence of Termination On termination of the Contract for any reason

1.the Buyer shall return all of the Seller Materials. If the Buyer fails to do so, then the Seller may enter the Buyer's premises and take possession of them. Until they have been returned, the Buyer shall be solely responsible for their safe keeping and will not use them for any purpose not connected with this

Contract; 2. the Buyer shall cease all use of the Seller's confidential information; 3 the Buver shall immediately pay to the Seller all of the Seller's outstanding unpaid invoices and interest and, in respect of Goods and Services supplied bu for which no invoice has yet been submitted, the Seller shall submit an invoice which shall be payable by the Buyer immediately on receipt, and the Seller may apply any deposit paid by the Buyer towards any sums due under such invoices the accrued rights and remedies of the parties as at termination shall not be affected, including the right to claim damages in respect of any breach of the Contract which existed at or before the date of termination or expiry; and 5. clauses which expressly or by implication have effect after termination shall e in full force and effect

#### 12 Export Terms

1. Unless the context otherwise requires, any term or expression which is defined in or given a particular meaning by the provisions of Incoterms shall have the same meaning in these Conditions, but if there is any conflict between the provisions of Incoterms and these Conditions, the latter shall prevail 2. Where Goods are supplied for export from the United Kingdom, the provisions of this clause 12 shall (subject to any special terms agreed in Writing between the Buyer and the Seller) apply notwithstanding any other provision of these Conditions

3. The Buyer shall be responsible for complying with any legalisation or regulations governing the importation of the Goods into the country of destination and for the payment of any duties thereon.

4.Unless otherwise agreed in Writing between the Buyer and the Seller, the Goods shall be delivered FOB the air or sea port of shipment or freight terminal and the Seller shall be under no obligation to give notice under Section 32(3) of the Sale of Goods Act 1979.

5.The Buyer shall be responsible for arranging for testing and inspection of the Goods at the Seller's premises before shipment. The Seller shall have no liability for any claim in respect of any defect in the Goods which would be apparent or such inspection and which is made after shipment, or in respect of any damage during transit

6.Where credit is extended, payment of all amounts due to the Seller shall be made by irrevocable letter of credit opened by the Buver in favour of the Seller and confirmed by a clearing bank in the UK acceptable to the Seller or, if the Seller has agreed in Writing, on or before acceptance of the Buyer's order, to waive this requirement, by acceptance by the Buyer and delivery to the Seller of a bill of exchange drawn on the Buver pavable 30 days after sight to the order of Lopyright, design rights, registered designs, trade marks and other intellectual

property of whatever nature arising out of or in connection with any Goods. Services (including deliverables of the Services), literature or other materials supplied by the Seller to the Buyer in connection with the Contract shall be owned by and remain the property of the Seller unless otherwise agreed expressly in Writing signed by the Seller and the Buyer acknowledges that it may not copy or reproduce of otherwise use the same in whole or in part and in any way whatsoever in any part of the world without permission or licence in Writing from

2. In the event that the Buver learns of any use or proposed use by any third party of the Seller's intellectual property rights which might amount to an infringement of such intellectual property rights or to passing-off or unfair competition in any part of the world the Buyer shall forthwith notify the Seller in Writing giving full particulars thereof and shall provide all information and assistance to the Seller in the event that the Seller decides that proceedings (which shall be under the control and at the cost of the Seller) should be

3. The Buver acknowledges that, in respect of any third party intellectual property rights in the Goods and/or Services, the Buyer's use of any such intellectual property rights is conditional on the Seller obtaining a written licence from the elevant licensor on such terms as will entitle the Seller to license such rights to the Buver

All Seller Materials are the exclusive property of the Seller 5.In respect of any designs, plans or other materials provided by the Buyer to the Seller to be used in the supply of Goods and/or Services

1.the Buyer and its licensors shall retain ownership of their rights in such materials: 2.the Buyer warrants that it has all rights, licences, consents and permissions

required to use such materials in this manner and to grant the licence under clause 1353. If the Seller determines that the Buyer has breached this warranty, the Seller reserves the right to refuse to accept the Buver's order, cancel the Contract or take such action as the Seller deems appropriate;

3.the Buyer grants to the Seller a non-exclusive, royalty-free, worldwide licence to use, store and copy such materials to the extent required in order for the Seller to supply the Goods and Services:

4.the Buyer shall indemnify and hold harmless the Seller against all liabilities, costs, expenses, fines, penalties, damages and losses suffered or incurred by the Seller in connection with any claim made against the Seller for actual or alleged infringement of a third party's intellectual property or other proprietary rights jout of or in connection with the Seller's use of any such content or

14 User Warning es with this clause 135 This clause shall survive termination of the anetrestments, consumer information, instructions, recommendations or labelling (the "Literature") supplied by the Seller relating to the Goods, have beer prepared to comply with statutory regulations (if any) relating to the Goods and/or Services and with a view to providing information for users as to the physical characteristics of the Goods and precautions to be taken with regard to ir use. The Buyer undertakes to the Seller

1.only to use in relation to the Goods and/or Services the Literature supplied or noved in Writing by the Seller; not to remove from the Goods prior to re-sale, fitting, or installation any

Literature supplied with the Goods by the Seller:

14.1.3 not to make any statement, representation or claim or give any WHE FAULTHE or as specifically authorised by the Seller; and

ta any drafesuppy ase of instance and signal bein an interesting being and the second and the se ebiPinstalled by any third party (including any of its employees, agents or sub-contractors) outside the nurnose intended and/or otherwise than in accordance with any literature supplied with the Goods.

#### 15. General

1. Any communication required to be made under this Contract shall be in Writing but where these Conditions require a notice then this shall only be, validly given if in writing sent by pre-paid first class post or delivered by hand to the party concerned (at its registered office or in the case of the Buyer at the address giver by the Buyer to the Seller) or by facsimile transmission. Notices sent by first class post shall be deemed to have been given two working days after posting (exclusive of the day of posting); notices delivered by hand shall be deemed to have been received on the day of delivery. Notices sent by facsimile transmission on a working day shall be deemed to have been received on that day unless they are sent after 4.00pm or on a non working day when they shall be deemed to have been served on the next working day (provided confirmation of successful transmission has been received by the sender). For the avoidance of doubt notices will not be validly served if sent by electronic mail. For the purposes of this clause 'working day' shall mean a day other than a Saturday. Sunday or public holiday in England when banks in London are open for business. The provisions o this clause shall not apply to the service of any proceedings or other documents in any legal action

2.A waiver of any right under the Contract or law is only effective if it is in Writing. No waiver by the Seller of any breach of the Contract by the Buyer shall be considered as a waiver of any subsequent breach of the same or any other

3. If any provision of these Conditions is held by a court or other competent authority to be invalid or unenforceable in whole or in part the validity of the other provisions of these Conditions and the remainder of the provision in question shall not be affected thereby.

4. If a dispute arises out of or in connection with the Contract or the performance, validity or enforceability of it (Dispute) then either party shall give to the other written notice of the Dispute (setting out its nature and full rticulars together with supporting documents) and the parties shall at tempt in good faith to resolve the Dispute. If the parties have not resolved the Dispute within 14 days of such written notice, the Dispute shall be referred to a senior officer of each party, who shall attempt in good faith to resolve it. 5. The Buyer shall not assign the Contract nor any of its rights and obligation thereunder without the prior written consent of the Seller.

6. The operation of the Contracts (Rights of Third Parties) Act 1999 (the 1999 Act) is excluded and shall not apply and the parties to the Contract may amend vary or terminate it or any Conditions in such a way as may affect any rights or benefits of any third party which would but for this clause be directly enforceable against the parties under the 1999 Act without the consent of sud third party.

7. These Conditions, the Contract and any disputes or claims arising out of or in connection with it or its subject matter (including non-contractual disputes or claims) shall be governed by the laws of England and Wales.

8Each party irrevocably agrees for the sole benefit of the Seller that, subject as ided below, the courts of England and Wales shall have exclusive jurisdiction over any dispute or claim (including non-contractual disputes or claims) arising out of or in connection with the Contract or its subject matter or formation. Nothing in this clause shall limit the right of the Seller to take

ceedings against the Buyer in any other court of competent jurisdiction, nor sel Confidentiality ceedings in any one or more jurisdictions preclude the taking buyer and ingsis any athenivis dictions in whether concurrently or not to ton frateritar from the ton lev ning the attacks and the starting customers, clients,

suppliers or products of the Seller, except as permitted by clause 162. 2. The Buyer may disclose the Seller's confidential information to: 1.its employees, officers, representatives or advisers who need to know such information for the purposes of exercising the Buyer's rights or carrying out its obligations under or in connection with the Contract. The Buyer shall ensure that its employees, officers, representatives or advisers to whom it discloses the Seller's confidential information comply with this clause 16, and 2as may be required by law, a court of competent jurisdiction or any

governmental or regulatory authority. 3. The Buyer shall not use the Seller's confidential information for any purpose other than to exercise its rights and perform its obligations under or in

connection with the Contract. For full export Trading Terms and Conditions please contact the export department at head office

Chelsom Limited. 2018

Appendix

Carriage and packaging Carriage and packaging is free for U.K. mainland (excluding Northern Ireland) deliveries providing net invoice values reach the 'Carriage paid' figure stipulated on the current price list. For invoices not reaching that figure or for express deliveries by carrier, carriage and handling will be charged at cost. For off-shore British Isles deliveries (including Northern Ireland), carriage and packing will be charged at 5% of net invoice value or net cost, whichever is the lower. For export orders, all prices are ex-works. Quotations for freight to any destination can be supplied upon request. Special export packing will be included on all export quotations. If part shipment is requested, the above Conditions apply to each individual delivery.

#### Returns

Goods officially ordered by the Buyer and supplied correctly by the Seller will not normally be accepted for return. Any request to return Goods made in Writing will be considered and if accepted, a re-stocking charge will be made.

#### Warning

The protective lacquer on any Goods installed on damp or wet plaster or decorators fillers may be at tacked by the chemicals therein. Please ensure that all plaster or filler has fully dried out before installation.

### CONVERSION CHART (millimetres to inches)

mm	inches	mm	inches	mm	inches	mm	inches
10	0.4	510	20.1	1010	39.8	1510	59.4
20	0.8	520	20.5	1020	40.2	1520	59.8
30	1.2	530	20.9	1030	40.6	1530	60.2
40	1.6	540	21.3	1040	40.9	1540	60.6
50	2.0	550	21.7	1050	41.3	1550	61.0
60	2.4	560	22.0	1060	41.7	1560	61.4
70	2.8	570	22.4	1070	42.1	1570	61.8
80	3.1	580	22.8	1080	42.5	1580	62.2
90	3.5	590	23.2	1090	42.9	1590	62.6
100	3.9	600	23.6	1100	43.3	1600	63.0
110	4.3	610	24.0	1110	43.7	1610	63.4
120	4.7	620	24.4	1120	44.1	1620	63.8
130	5.1	630	24.8	1130	44.5	1630	64.2
140	5.5	640	25.2	1140	44.9	1640	64.6
150	5.9	650	25.6	1150	45.3	1650	65.0
160	6.3	660	26.0	1160	45.7	1660	65.4
170	6.7	670	26.4	1170	46.1	1670	65.7
180	7.1	680	26.8	1180	46.5	1680	66.1
190	7.5	690	27.2	1190	46.9	1690	66.5
200	7.9	700	27.6	1200	47.2	1700	66.9
210	8.3	710	28.0	1210	47.6	1710	67.3
220	8.7	720	28.3	1220	48.0	1720	67.7
230	9.1	730	28.7	1230	48.4	1730	68.1
240	9.4	740	29.1	1240	48.8	1740	68.5
250	9.8	750	29.5	1250	49.2	1750	68.9
260	10.2	760	29.9	1260	49.6	1760	69.3
270	10.6	770	30.3	1270	50.0	1770	69.7
280	11.0	780	30.7	1280	50.4	1780	70.1
290	11.4	790	31.1	1290	50.8	1790	70.5
300	11.8	800	31.5	1300	51.2	1800	70.9
310	12.2	810	31.9	1310	51.6	1810	71.3
320	12.6	820	32.3	1320	52.0	1820	71.7
330	13.0	830	32.7	1330	52.4	1830	72.0
340	13.4	840	33.1	1340	52.8	1840	72.4
350	13.8	850	33.5	1350	53.1	1850	72.8
360	14.2	860	33.9	1360	53.5	1860	73.2
370	14.6	870	34.3	1370	53.9	1870	73.6
380	15.0	880	34.6	1380	54.3	1880	74.0
390	15.4	890	35.0	1390	54.7	1890	74.4
400	15.7	900	35.4	1400	55.1	1900	74.8
410	16.1	910	35.8	1410	55.5	1910	75.2
420	16.5	920	36.2	1420	55.9	1920	75.6
430	16.9	930	36.6	1430	56.3	1930	76.0
440	17.3	940	37.0	1440	56.7	1940	76.4
450	17.7	950	37.4	1450	57.1	1950	76.8
460	18.1	960	37.8	1460	57.5	1960	77.2
470	18.5	970	38.2	1470	57.9	1970	77.6
480	18.9	980	38.6	1480	58.3	1980	78.0
490	19.3	990	39.0	1490	58.7	1990	78.3
500	19.7	1000	39.4	1500	59.1	2000	78.7

To convert millimetres to inches: millimetres x 0.03937 To convert inches to millimetres: inches x 25.4 Copyright 2018 Chels Ltd

## NOTES

