111 Piccadilly Manchester M1 2HY
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4 Devonshire Street London W1W 5DT
+44 (0)203 440 5175

hma@hallidaymeecham.com
www.hallidaymeecham.com

HALLIDAY MEECHAM ARCHITECTS

PROPOSED DESIGN DETAILS:

1. Christmas Tree
2. Cycle Stand
3. Public Bike Repair Stand
4. Signage / Waymakers
5. Habitats
6. Planters
7. Seating Arrangements Materiality
8. Floor Finishes
9. Gobo Lights
10. Play Elements
11. Café Terrace Floor Finishes

CHRISTMAS TREE

400-450cm High Tree (100 x 100cm root mass)

450-500cm High Tree (120 x 100cm root mass)

Airpot would be the safest option and highest chance of uptake for root mass at this size. The nature of the rootball having been grown in an airport makes it very stable once secured and installed.

Species: Abies nordmanniana

Common Name: Nordmann fir or Caucasian fir

Abies nordmanniana, known as the Nordmann or Caucasian Fir, is now best recognized as the needle-holding Christmas Tree sold by garden centres in December. Its evergreen pyramidal shape and green lustrous needles make it stand out in the landscape as one of the most majestic of firs.

Like most conifers, they prefer free draining soils, but these especially thrive in areas of frequent rain fall and given optimum conditions can reach heights of over 200 feet (60.96 m) tall! Introduced from Turkey in the early 1840s, it grows attractive cones that can grow up to 20 cm long.

It is an attractive evergreen tree with an ultimate spread of 4–8 meters. It thrives in full sun and requires no pruning, making it a low-maintenance addition to any landscape.



The tree has been recommended to be planted in Tree Parker tree cell planting system from Green Tech

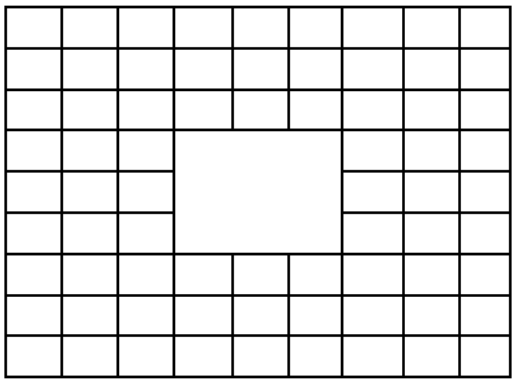
https://www.green-tech.co.uk/hard-landscaping/urban-tree-planting-systems/treeparker-cell-system





TreeParker units, for this example if we assume a required soil volume of 30m3 (species dependant) 5.4m x 5.4m x 1m provides a soil volume of 29m3 (layout example below), with 9 units removed in the centre to allow space for the larger root ball (1.8m).

This of course can be adapted in terms of footprint and depth, and if the root balls are smaller, we can remove 4 units (1.2) as standard.



- Anchors - I would suggest the GT Tree Anchor Rootball Wire Fixing System - rootball-wire-fixing-tree-anchor-system – the exact size will depend on the height and girth of the specified tree.

- Aeration/irrigation - Mona Relief Piazza Tree Irrigation Watering System can be used with TreeParker. Mona Relief Piazza Tree Irrigation Watering System - Tree & Plant Watering Systems | Green-tech

- Soil wise - GT Geo soil for topsoil, to a depth of 400mm and Green Tree subsoil for the remaining 600mm depth.

BIKES

Public Bike Repair Stand & Pump from Turvec

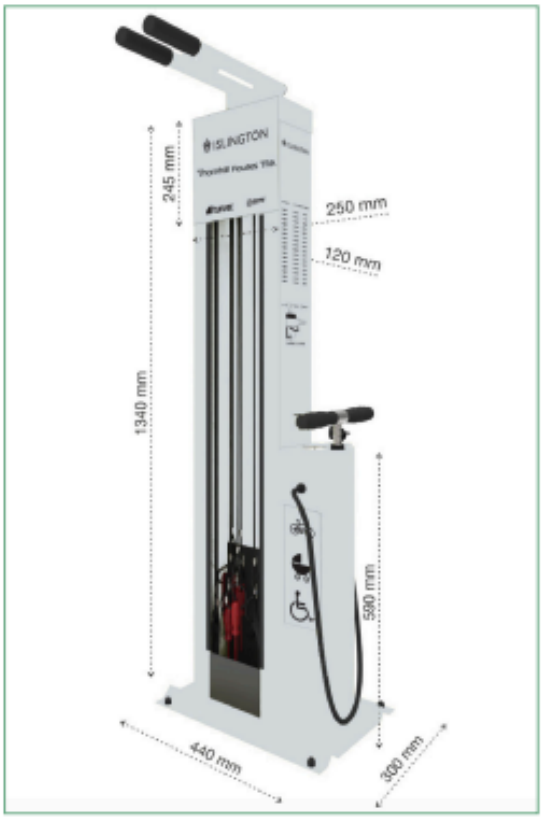
https://turvec.com/products/bike-repair-stations-and-pumps?srsltid=AfmBOoqf_9Q4ASY61FnlOyZo3WSOG3D9PDKrUA93YKYyzb4LgotraLoP



Can be finished in any RAL colour.

Needs to be fixed on a concrete base foundation.

Dimensions



Standard RAL Colours

RAL 1021	RAL 2008	RAL 3020
RAL 4004	RAL 4010	RAL 5002
RAL 5003	RAL 5012	RAL 5015
RAL 5017	RAL 6005	RAL 6018
RAL 7001	RAL 7016	RAL 7035
RAL 9005	RAL 9006	RAL 9010

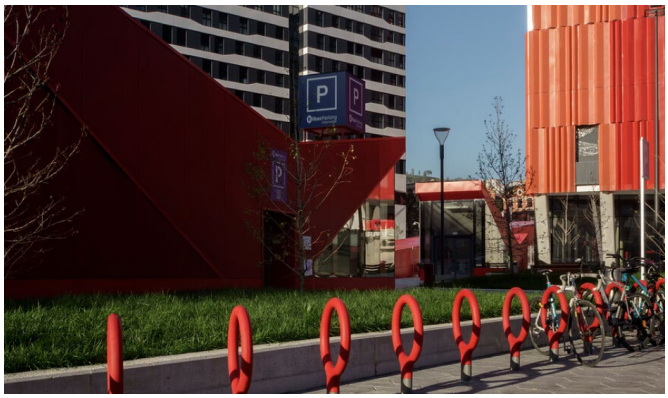
Product details

Product name	Bike Repair Station & Pump
Product code	VEC110
Fixing	Surface mounted
Standard finish	Galvanised steel, powder coated to any standard RAL colour, with branding
Optional finish	Bespoke RAL colour or stainless steel casing
Tools included	Hex key set, phillips screwdriver, flat screwdriver, T25 Torx screwdriver, adjustable spanner, flat wrench 8×10 mm, flat wrench 13×15 mm, tyre levers. All attached with steel ropes
Pump	Integrated pump with pressure gauge up to 10 bar. Schrader and presta valve for all bike types
Branding	Incorporate any company or council logo
Station door	Keyturn door available on request
Weight	~35 kg
Dimensions	1340 x 440 x 300 mm
Installation	All units are delivered pre-assembled and ready to install

Key Bike Racks from Urbideris

https://www.urbidermis.com/urban-furniture/key/





Standards

UNE 41510 , ISO 12944 , UNE EN 1780-2 , UNE EN 576 , DIN 4102 , PSA D47 431.

Finishes

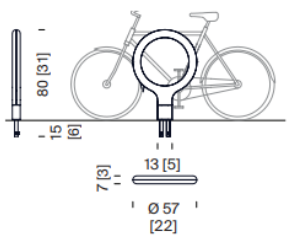
Base	Body	Body	Body
Light grey	Red	Anthracite	Yellow sun

*The colours shown are merely indicative and may differ from reality. (Other colours available to order)
**Consult finishes for marine environments.

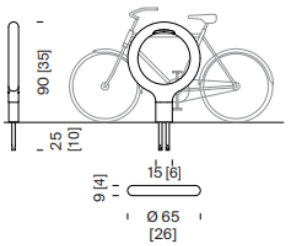
Weight (kg) [lb] (unpacked)

Ø 57: 9 [19.8]
Ø 65: 5.5 [12]

KYA11
KYA12
KYA13



KAB11
KAB12
KAB13



Size in cm [in]

SIGNAGE

Waymarker Posts

WAY2GO Waymarker

Waymarkers sit alongside popular routes and can be used as a secondary wayfinding tool in conjunction with fingerposts, totems, or lecterns.

- Customisable through a range of options
- Available in aluminium, stainless steel or FSC oak
- Vinyl, engraved or painted graphics/text
- Powder coated in a standard RAL colour of your choice. Timber can be natural or oiled.
- Requires concrete footings 500mm x 500mm x 600mm

Waymarkers

Sign Type
Wayfinding Waymarker

Primary Function
They sit alongside popular routes and can be used as a secondary wayfinding tool in conjunction with fingerposts, totems or lecterns.

Dimensions
Aluminium Post: 100mm x 100mm x 1100mm
Accoya Post: 125mm x 125mm x 1100mm
Oak Post: 100mm x 100mm x 1100mm

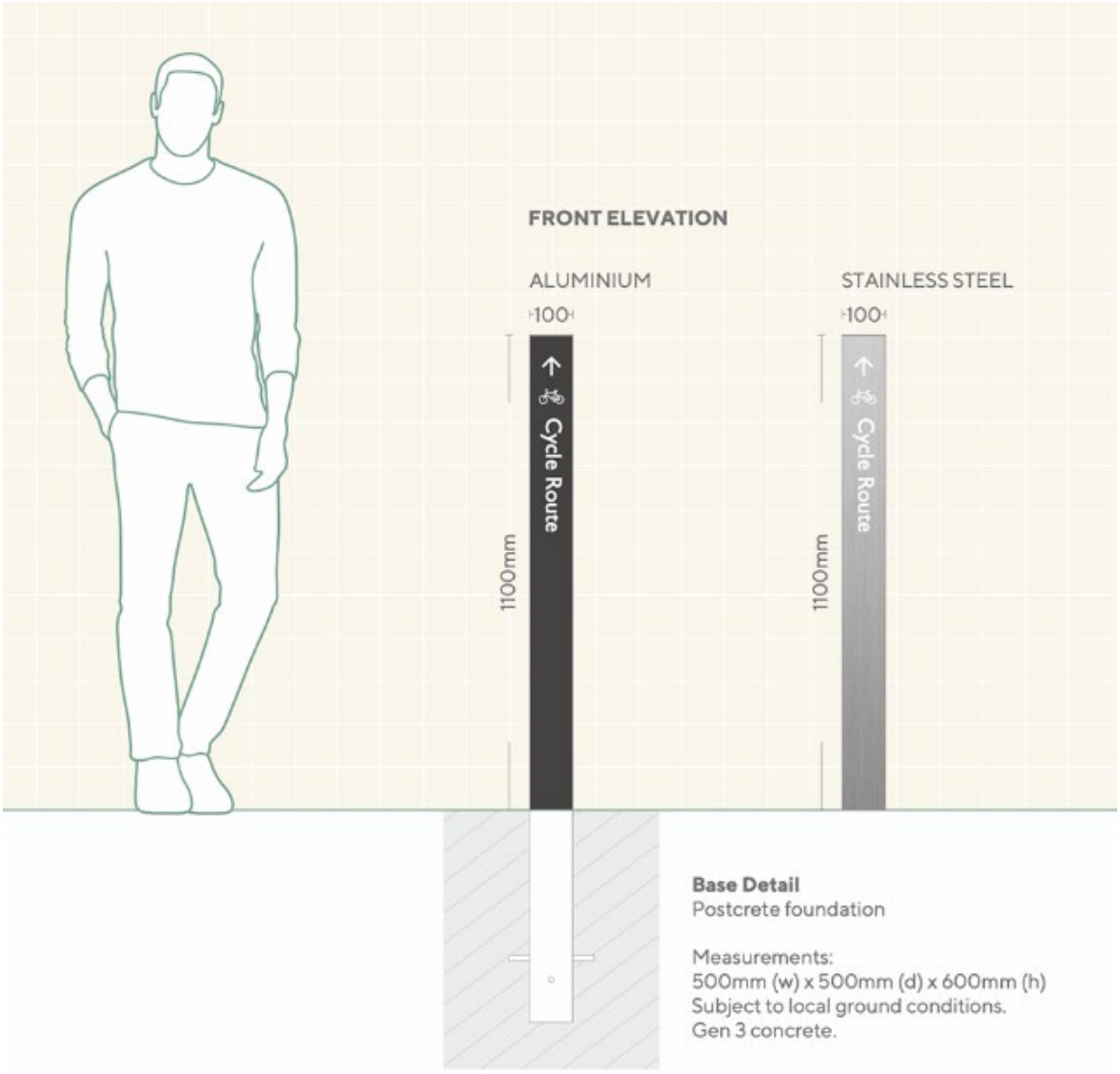
Materials
- Aluminium
- FSC Accoya
- FSC Oak

Graphics
- Plotted Vinyl
- Engraved Text
- Painted Text

Finish
Powder coated in a standard RAL colour.

Please note other sizes, layouts, colours and materials are available on request.





Base Detail
Postcrete foundation

Measurements:
500mm (w) x 500mm (d) x 600mm (h)
Subject to local ground conditions.
Gen 3 concrete.

HABITATS

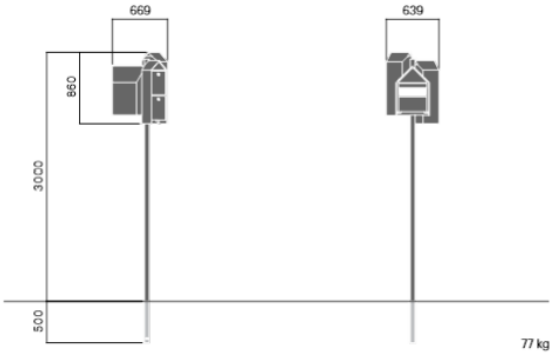
Habitat wings from Vestre

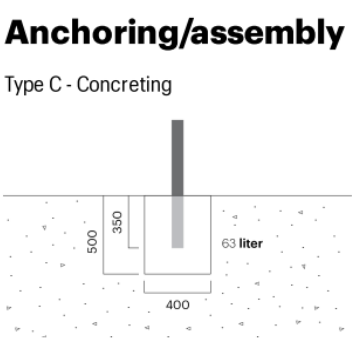
Bird Houses mounted on pole

Hot dipped powder coated steel

The finish must be of very high quality and also conform to corrosion class C5-M (EN 12944). Vestre offers more than 200 standard RAL classic colours at no extra charge.

https://vestre.com/uk/products/habitats/habitats-wings







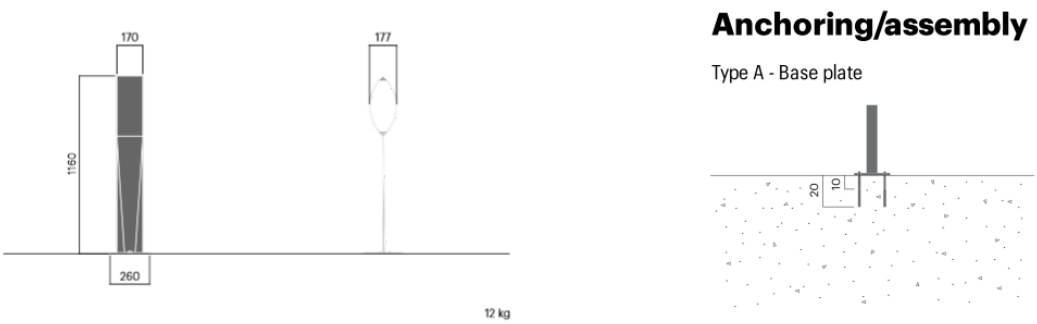
Habitat Houses from Vestre

Leaf can be placed in planters, flower beds, on roof terraces or in parks—you can let your imagination run wild. The most important thing to remember is to ensure that the biological, species-typical parameters are considered and thus enrich the opportunities for insects to survive in urban environments.

https://vestre.com/uk/products/habitats/habitats-leaf

Hot dipped powder coated steel

The finish must be of very high quality and also conform to corrosion class C5-M (EN 12944). Vestre offers more than 200 standard RAL classic colours at no extra charge.





Stepping Stones in the Wildlife Area

Permeable linear concrete path

Or use a permeable concrete paving product such as Hydrolineo concrete block paving to create a more linear but zig zagged path through the landscape. This would be permeable and would be accessible for all. The path would blend into the soft landscape.

https://hardscape.co.uk/wp-content/uploads/2022/06/Hydro-Lineo-Flyer.pdf







Planters

Circular steel planters powder coated in any RAL colour

2m diameter x 80-100cm high

1m diameter x 60-80cm high

These would be fabricated in mild steel and welded together with a bae (and drainage holes). We have been advised that if we want these to be movable then they would have to have more internal support and structure and the larger 2m planter would require recesses for lifting straps. They would be extremely heavy. We would suggest that the larger planters are not movable and we only use these around the edges if worried about these being an issue for larger events?





Example of a 2m dia planter made from steel. These will then be powder coated to a smooth finish (example above right) and can be any RAL colour.

Escofet PETRA

Escofet_lab
2021

https://www.escofet.com/en/products/urban-life/landscape-furniture/petra



Molded concrete without reinforcement, speckled finish and in colors from the standard Escofet chart. Petra XS resting on the paving and anchored with three screws threaded through sleeves recessed in base. Petra S and Petra L attached by using two slings, installation is as simple as suspending them over a pavement, compacted sand or a grass lawn, with no need for anchoring. The recessed base allows the slings to pass through for loading and unloading.

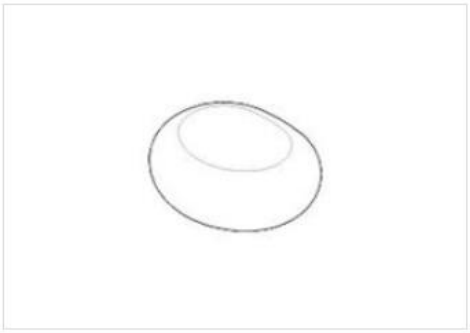
Etched and waterproofed concrete.



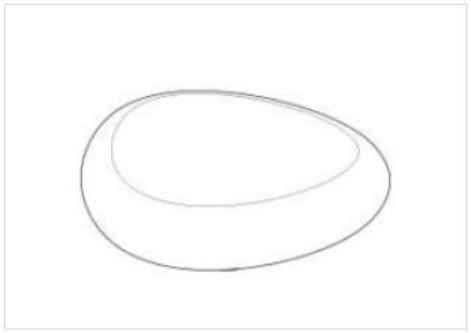
Variant	Specification
Petra : Backless Bench : XS	110 x 95 x 47 cm / 728 kg
Petra : Backless Bench : S	188 x 117 x 48 cm / 1366 kg
Petra : Backless Bench : L	195 x 192 x 50 cm / 2027 kg







Petra : Backless Bench : XS
110 X 95 X 47 Cm / 728 Kg



Petra : Backless Bench : S
188 X 117 X 48 Cm / 1366 Kg



Petra : Backless Bench : L
195 X 192 X 50 Cm / 2027 Kg

https://vestre.com/uk/products/seating/bloc-seat

BLOC seat

Bloc seat is available with or without a backrest and armrests. It can be used on its own, joined in rows or back-to back. It can also be free standing or mounted to the floor.

Hot dip galvanized. Using a hard wood for this product would be preferable.









NORDIC SWAN ECOLABEL 20730007

AWARD FOR DESIGN EXCELLENCE

https://vestre.com/uk/products/tables/bloc-table-2

BLOC Table

Bloc table is available on its own or joined in rows to create long tables combined with benches.

Hot dip galvanized. Using a hard wood for this product would be preferable.









NORDIC SWAN ECOLABEL
20730007

AWARD FOR DESIGN EXCELLENCE

https://vestre.com/uk/products/chairs/bloc-chair

BLOC Chair

Bloc chair is available with or without armrests. Hot dip galvanized. Using hard wood for this product would be preferable.









AWARD FOR DESIGN EXCELLENCE

https://vestre.com/uk/products/tables/bloc-table

BLOC lounge table

Bloc lounge table can be used on its own or combined with benches and chairs. Using hard wood for this product would be preferable.









AWARD FOR DESIGN EXCELLENCE

https://vestre.com/uk/products/multipurpose-furniture/bloc-sun-bench

BLOC sun bench

Bloc lounge table can be used on its own or combined with benches and chairs. Using hard wood for this product would be preferable.





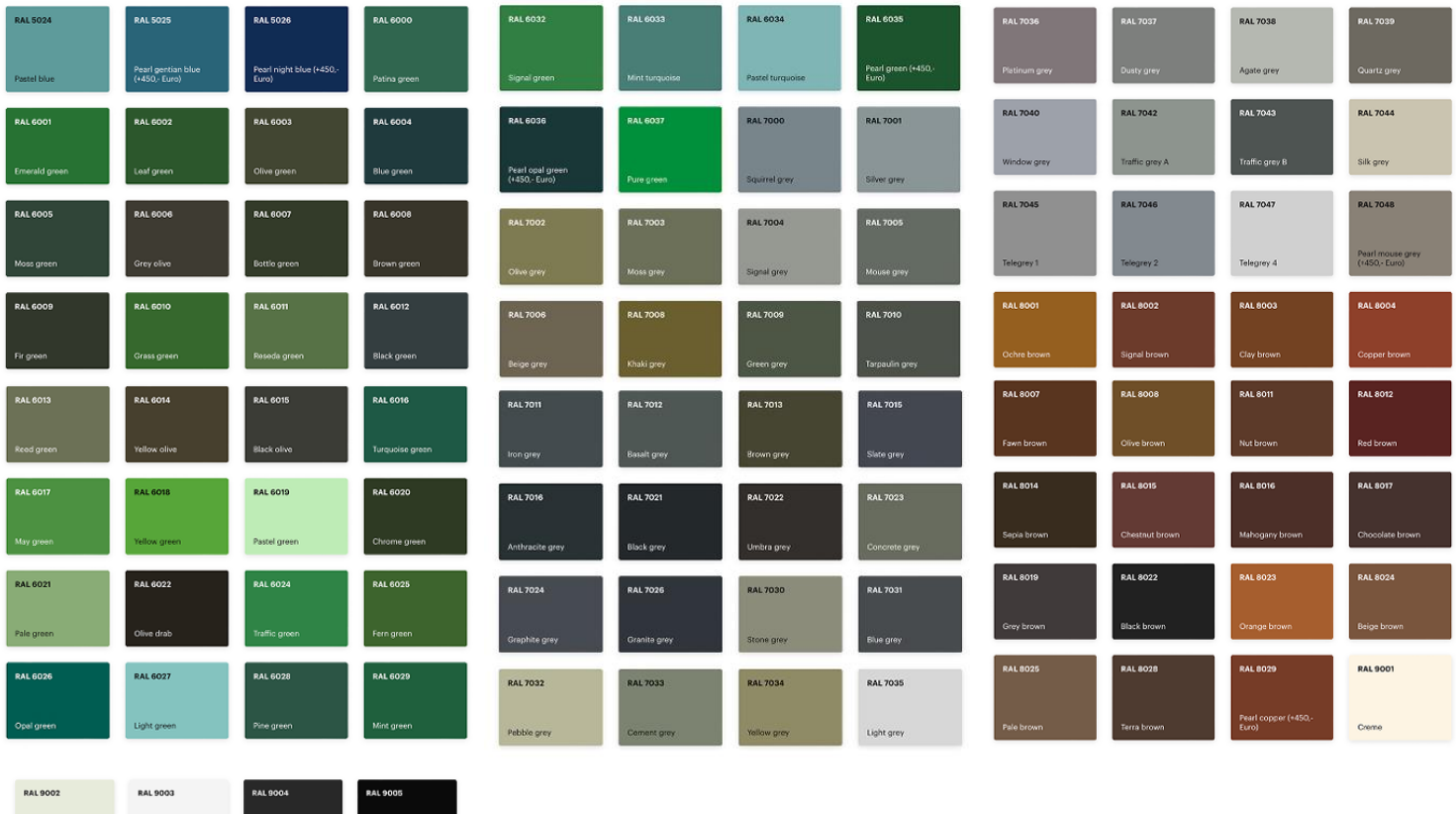




AWARD FOR DESIGN EXCELLENCE

RAL classic colour chart







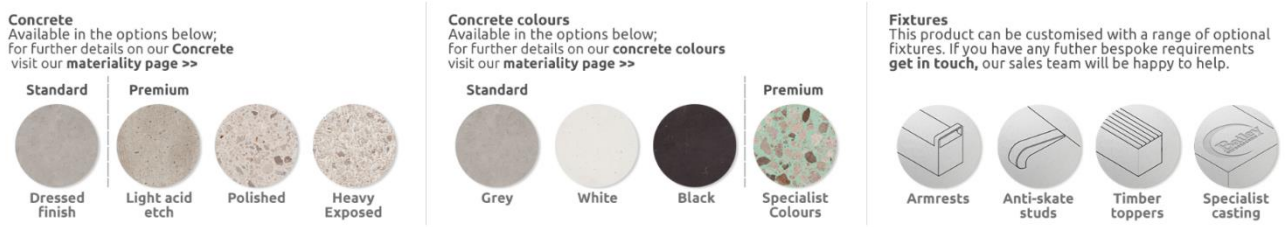
https://www.baileystreetscene.co.uk/roosevelt-bench

ROOSEVELT BENCH

The Roosevelt Bench is a simple, curved concrete bench and manufactured from standard precast concrete with an acid etch finish. Finishes available: Light Exposed Aggregate. Fully Polished. Polished Top.



MATERIALS, FINISHES & OPTIONS

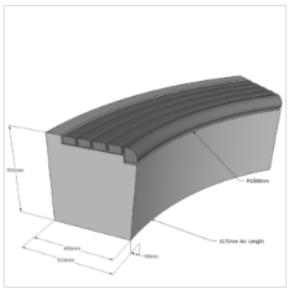




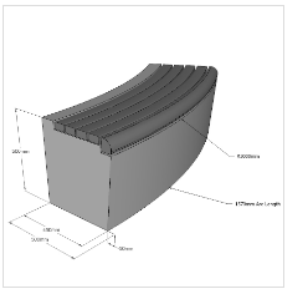
https://hardscape.co.uk/inspire/furniture/elementale/

HARDSCAPE
Inspire. Select. Supply.

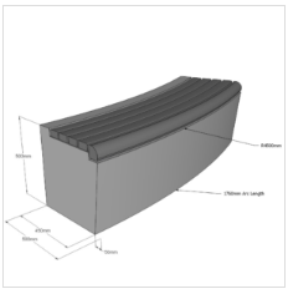
ELEMENTALE



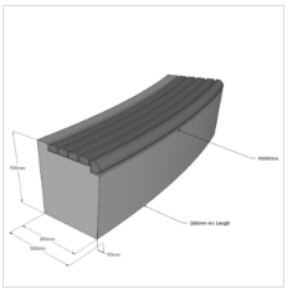
Seat Curve 1.5m int rad



Seat Curve 3m rad



Seat Curve 4.5m rad



Seat Curve 6m rad







https://hardscape.co.uk/select/?fwp_category=kellen

HARDSCAPE
Inspire. Select. Supply.

KELLEN
BRAVE LANDSCAPES • STREETS AHEAD

DESIGN SETTS, SLABS & FLAGS

AVAILABLE IN 50, 60, 70 80, 90 AND 100 MM AS STANDARD THICKNESS.
CONFORMS TO EUROPEAN STANDARD EN 1338 + 1339
CHAMFER DETAILS AVAILABLE UPON REQUEST.

DESIGN SETTS & SLABS: AVAILABLE IN BRECCIA, LAVARO, LISCIO AND METALLO

SERIES 100 MM	SERIES 105 MM	SERIES 110 MM	SERIES 150 MM	SERIES 200 MM
100 x 100 x 80	105 x 105 x 80	110 x 110 x 80	150 x 150 x 80	200 x 50 x 80
100 x 200 x 80	105 x 215 x 80/100	110 x 165 x 80/100	150 x 200 x 80	200 x 100 x 80
100 x 300 x 100	105 x 315 x 80	110 x 220 x 80/100	150 x 300 x 60/80/100	200 x 150 x 80
	105 x 425 x 100	110 x 330 x 80/100	150 x 400 x 80	200 x 200 x 60/80/100
			150 x 600 x 100	200 x 300 x 60/80/100
				200 x 400 x 80/100
				200 x 600 x 80/100

SERIES 300 MM	SERIES 400 MM	SERIES 500 MM	SERIES 600 MM	SPECIALS
300 x 75 x 80	400 x 50 x 100	500 x 500 x 80/100	600 x 70 x 100	100 x 100 x 80
300 x 100 x 100	400 x 150 x 100	500 x 700 x 100	600 x 200 x 80/100	200 x 200 x 60/80/100
300 x 150 x 60/80/100	400 x 200 x 80/100	500 x 1000 x 100	600 x 300 x 100	300 x 300 x 60/80/100
300 x 200 x 60/80/100	400 x 400 x 80		600 x 600 x 80	400 x 400 x 80
300 x 300 x 60/80/100			600 x 900 x 100	500 x 500 x 80/100
300 x 600 x 100				600 x 600 x 80
300 x 900 x 100				900 x 900 x 120
				1000 x 1000 x 120/145

DOUBLE SIZE	ADDITIONAL SIZE	NARROW SIZE	DEPTH SIZE
200 x 200 x 60/80/100	125 x 250 x 80	60 x 240 x 80	69 x 210 x 80
210 x 210 x 60/70/80		80 x 240 x 80	
220 x 220 x 80			

FLAGS: AVAILABLE IN BRECCIA, LAVARO, PERLANO AND METALLO

SERIES 200 MM	SERIES 300 MM	SERIES 400 MM	SERIES 500 MM
200 x 200 x 50/60/70/80	300 x 150 x 45/50/60/70/80	400 x 200 x 50/60/70/80	500 x 200 x 50/60/70/80
200 x 400 x 50/60/70/80	300 x 300 x 45/50/60/70/80	400 x 400 x 50/60/70/80	500 x 500 x 50/60/70/80
200 x 500 x 50/60/70/80		400 x 600 x 50/60/70/80	

SERIES DENOTES WIDTH



Liscio Giallo



Liscio Giallo Gribi



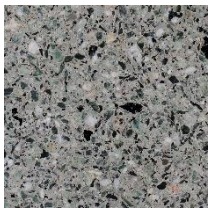
Liscio Argilla 200



Liscio Ciottolo



Liscio Bianco



Liscio Bianco



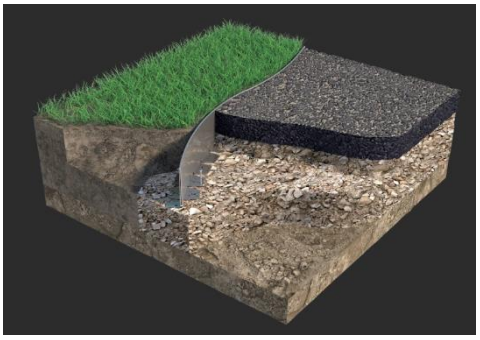
Kinley

https://www.kinley.co.uk/

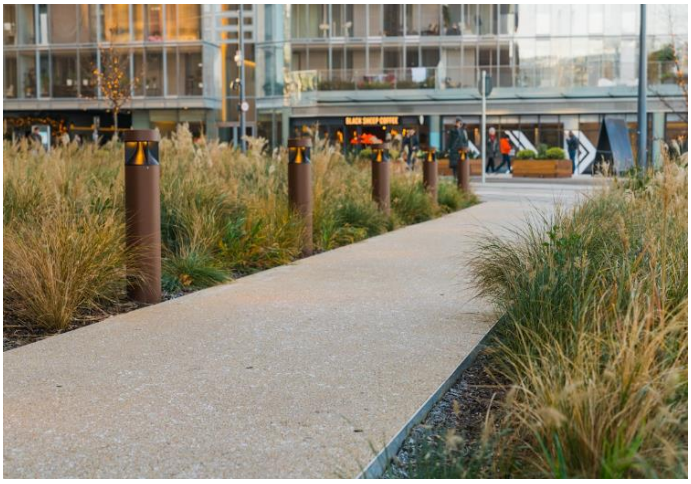
Bison







AluExcel









SURESET RESIN



Winter Pearl



Buttermilk



Butterscotch

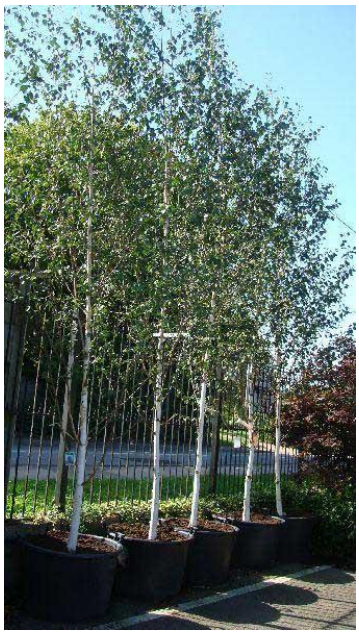
Example Planting Species



Tilia cordata ‘Greenspire’



Acer campestre ‘Streetwise’



Betula utilis ‘Jacquemontii’















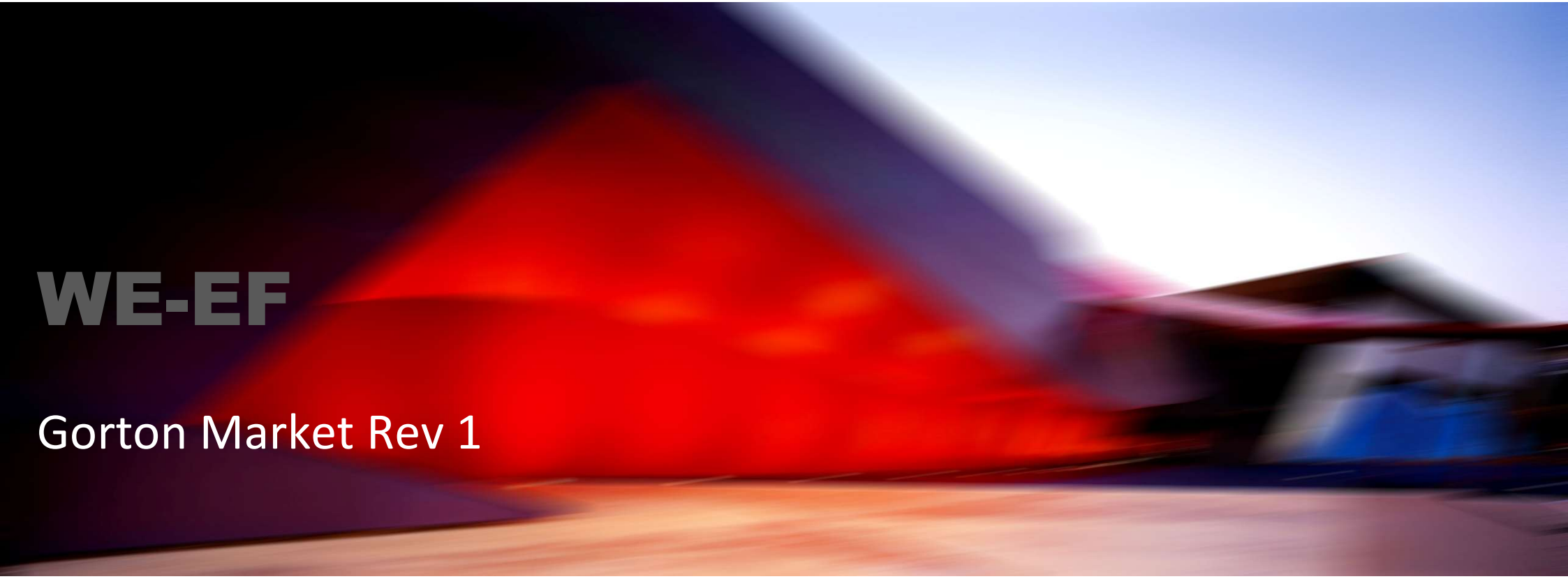










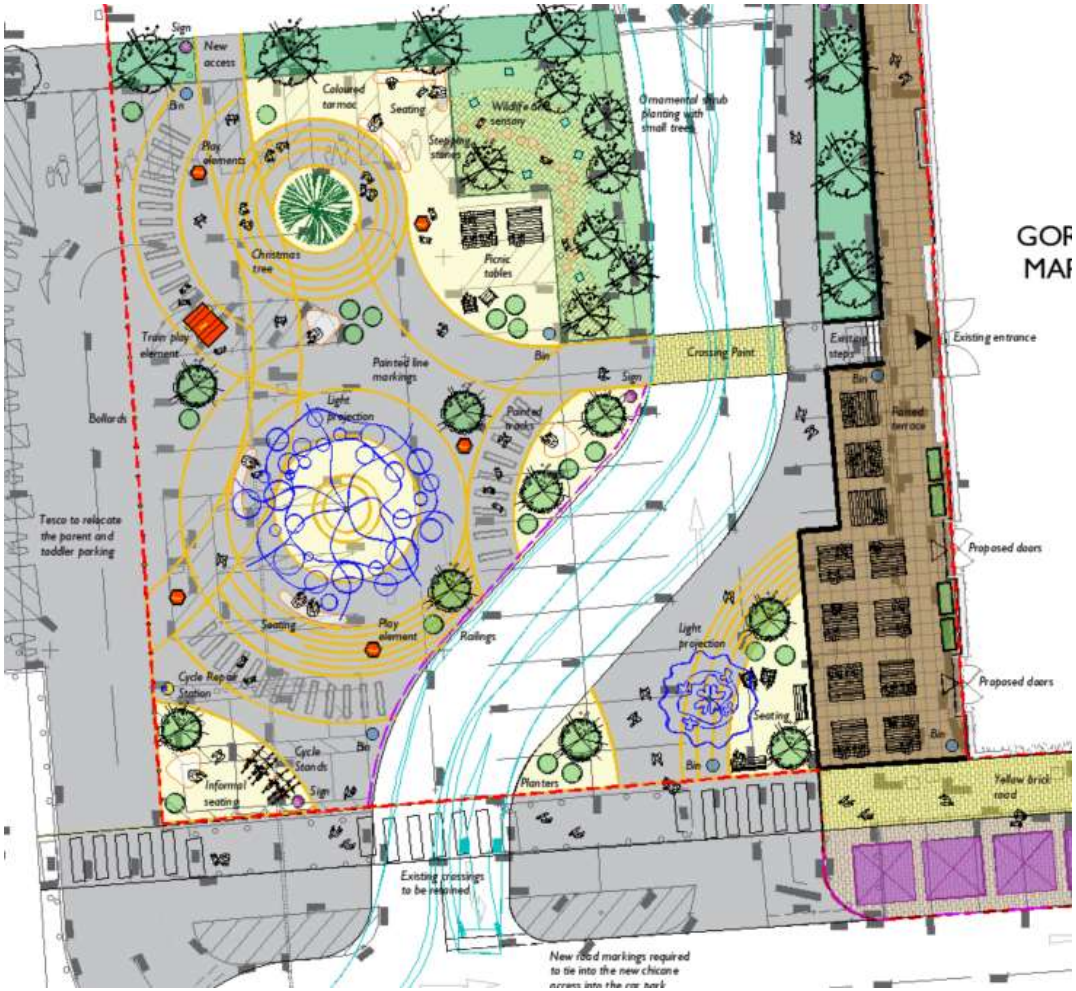


WE-EF

Gorton Market Rev 1

© WE-EF 2024

Introduction





For the redevelopment of this area the use of Gobo projectors will give interest and appeal to the area, that can be easily changed to suit events and seasons.

Due to the location and closeness to a glazed Tesco facade, it is felt that there will be a high ambient light, therefore, to enable the desired impact, the highest output should be used.

© WE-EF 2024

White GOBO Projector







Taking the image above into account, this will be best achieved with a white FLC230-GP along with a coloured glass gobo inside. Therefore, the best output can be achieved. Custom gobos can be designed and created.

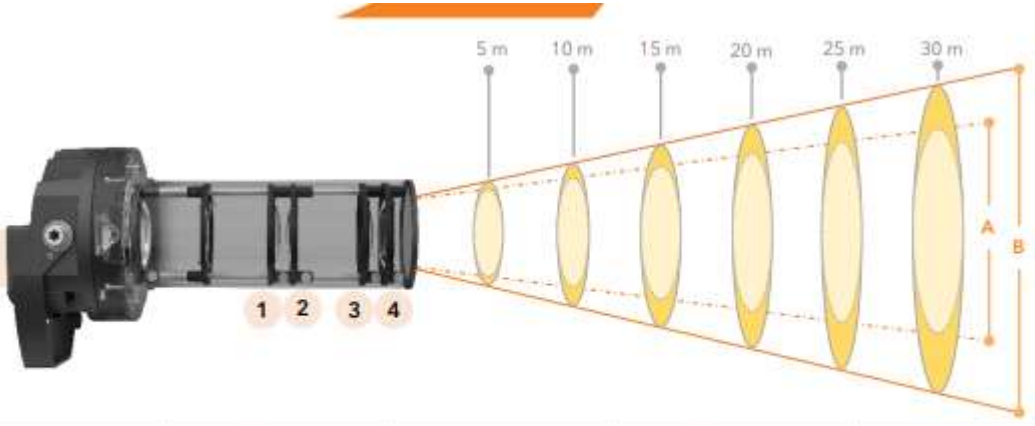
© WE-EF 2024

FLC230 PP static white

[ZP] [FP] Opening angle 48 W

4-lens configuration

Zoom-spot depending on the distance

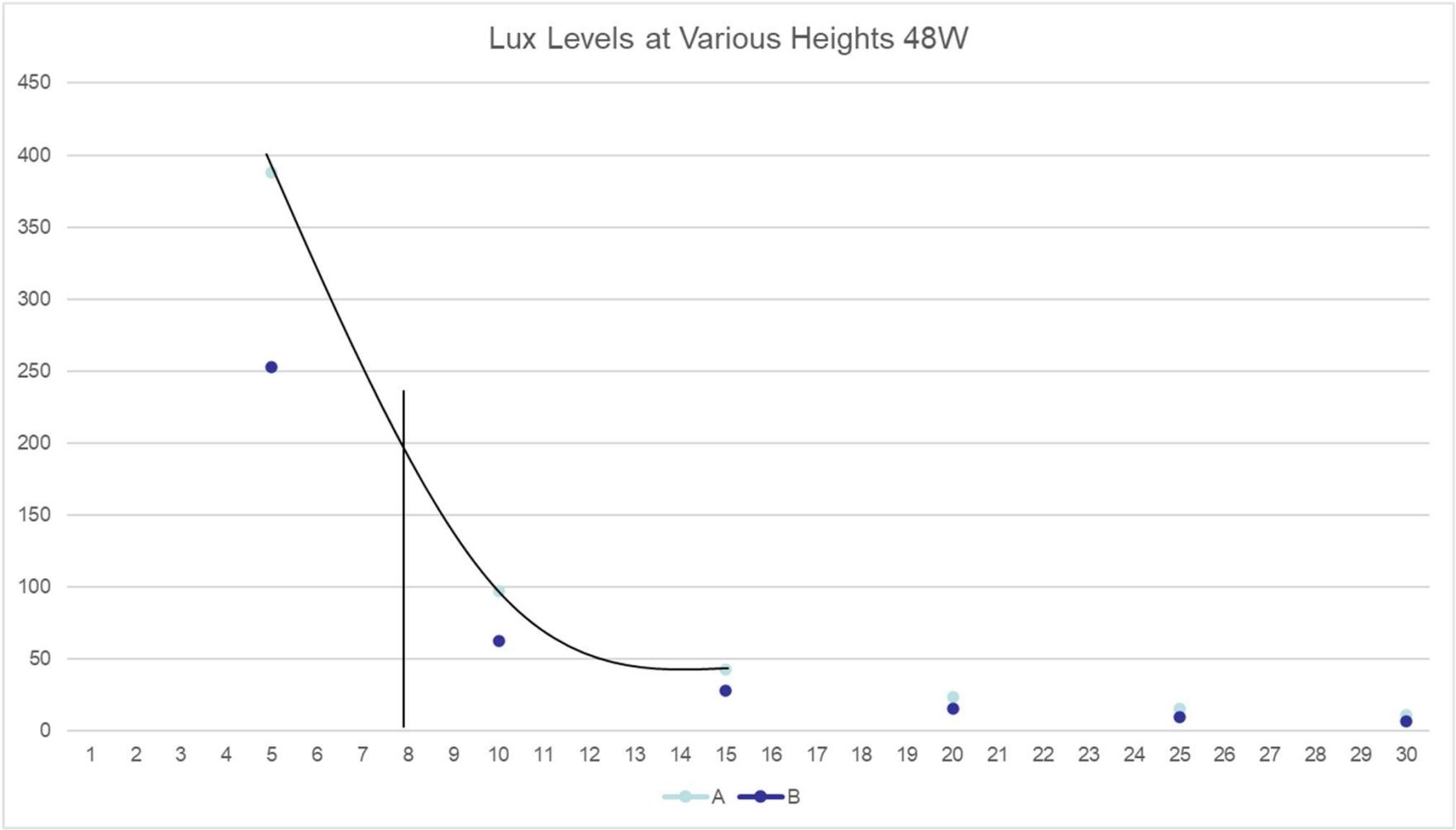


Distance (m)	5 m		10 m		15 m		20 m		25 m		30 m	
Opening angle A= 39° B=48°	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**
Diameter (m) from A - B	3.5 m	4.5 m	7 m	9 m	11.5 m	13.5 m	14 m	18 m	17.5 m	22.5 m	21 m	27 m
Em* 2200 K | 48 W | 1100 mA from A-B (lux)	330	201	82	50	37	22	21	13	13	8	9	6
Em* 2700 K | 48 W | 1100 mA from A-B (lux)	387	236	97	59	43	26	24	15	15	9	11	7
Em* 3000 K | 48 W | 1100 mA from A-B (lux)	390	238	98	60	43	26	24	15	16	10	11	7
Em* 4000 K | 48 W | 1100 mA from A-B (lux)	418	255	105	64	46	28	26	16	17	10	12	7

* Em = average illuminance on the illuminated surface

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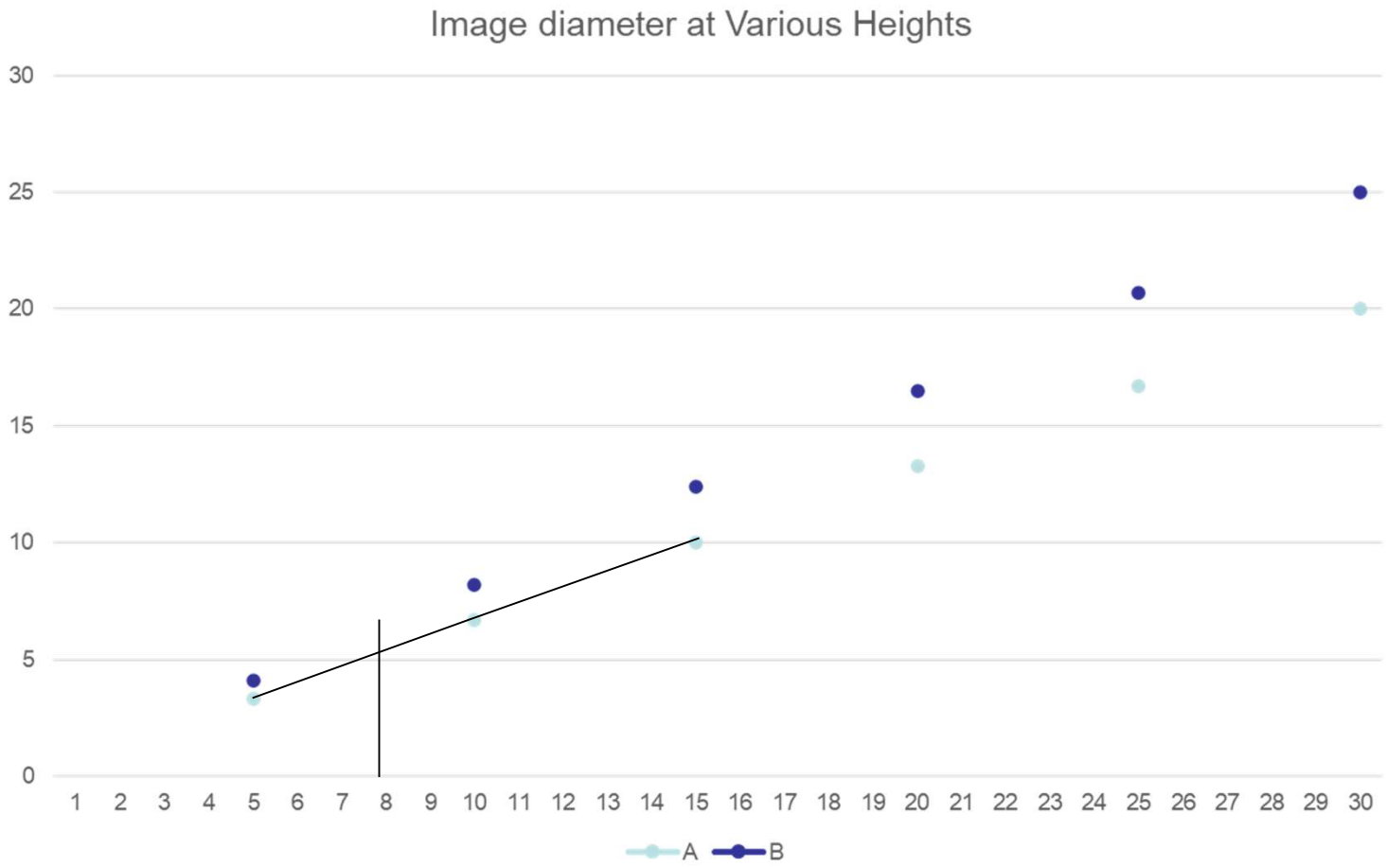
White GOBO Projector



Therefore, Lux level at 8m would be approximately 200 Lux

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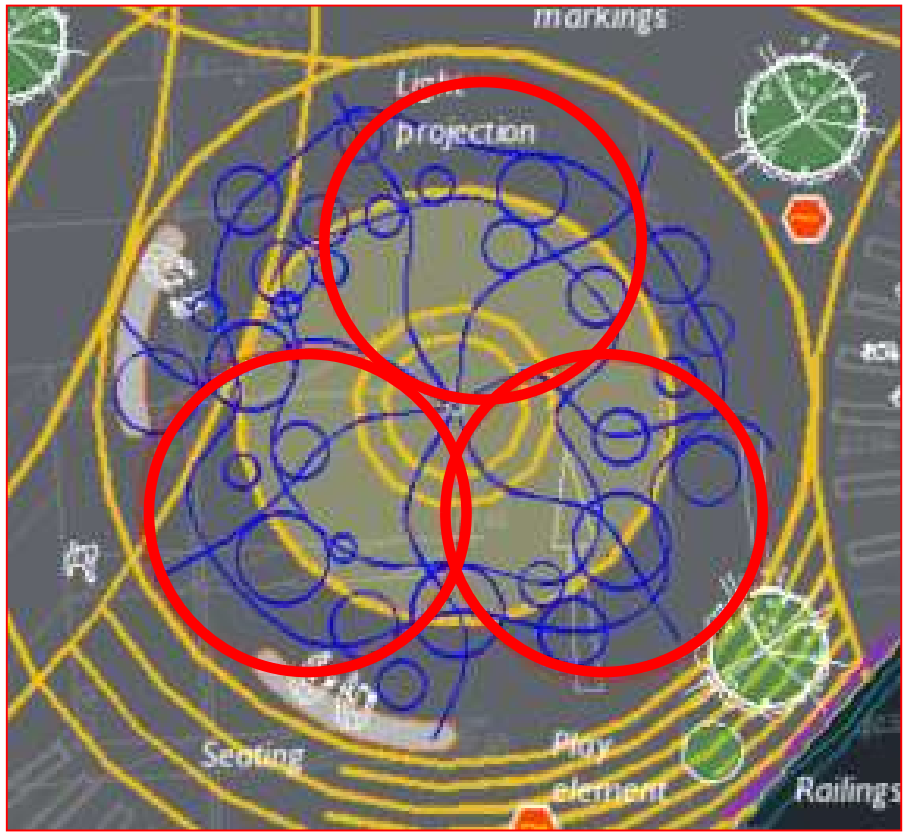
White GOBO Projector



Therefore, the image diameter at 8m would be approximately 5.5m

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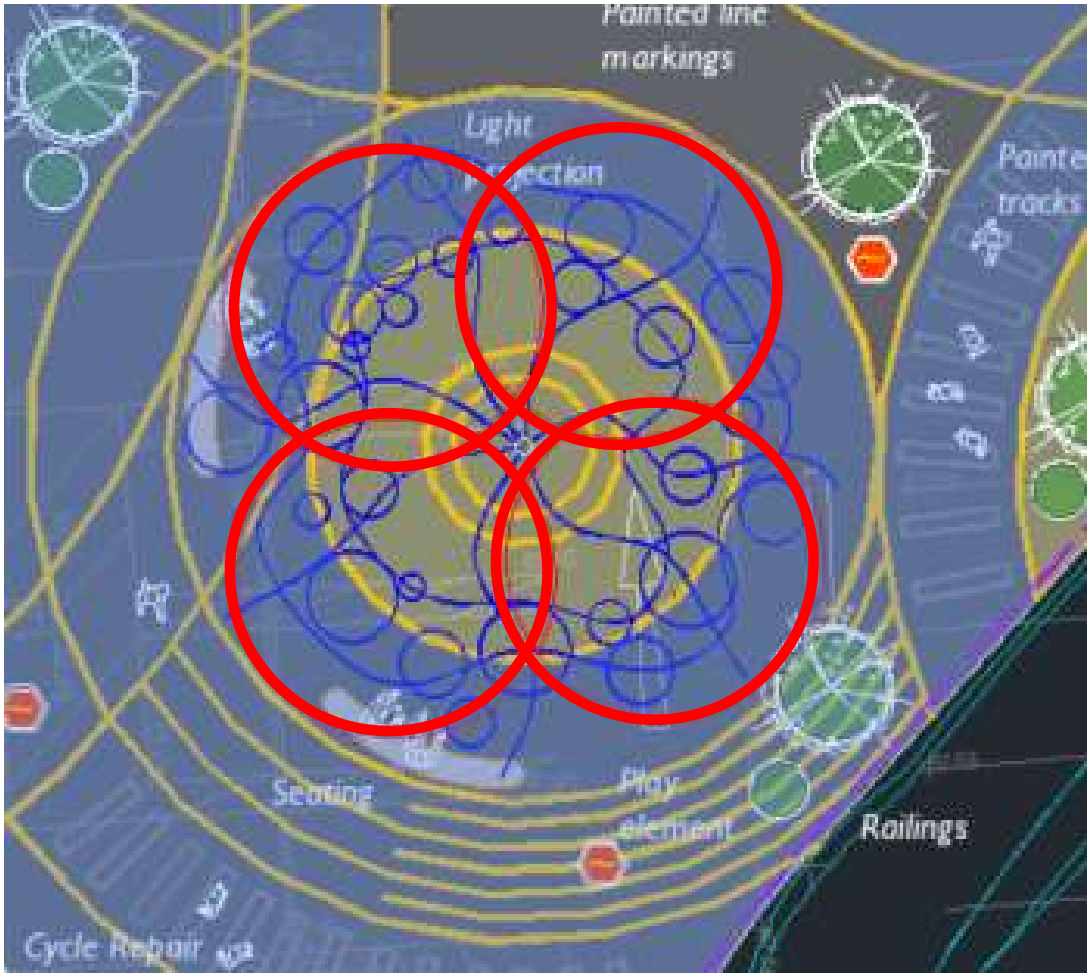
White GOBO Projector



With an image diameter of 5.5m, if three FLC230-GP projectors were used on an 8m column not all the desired area would be covered.

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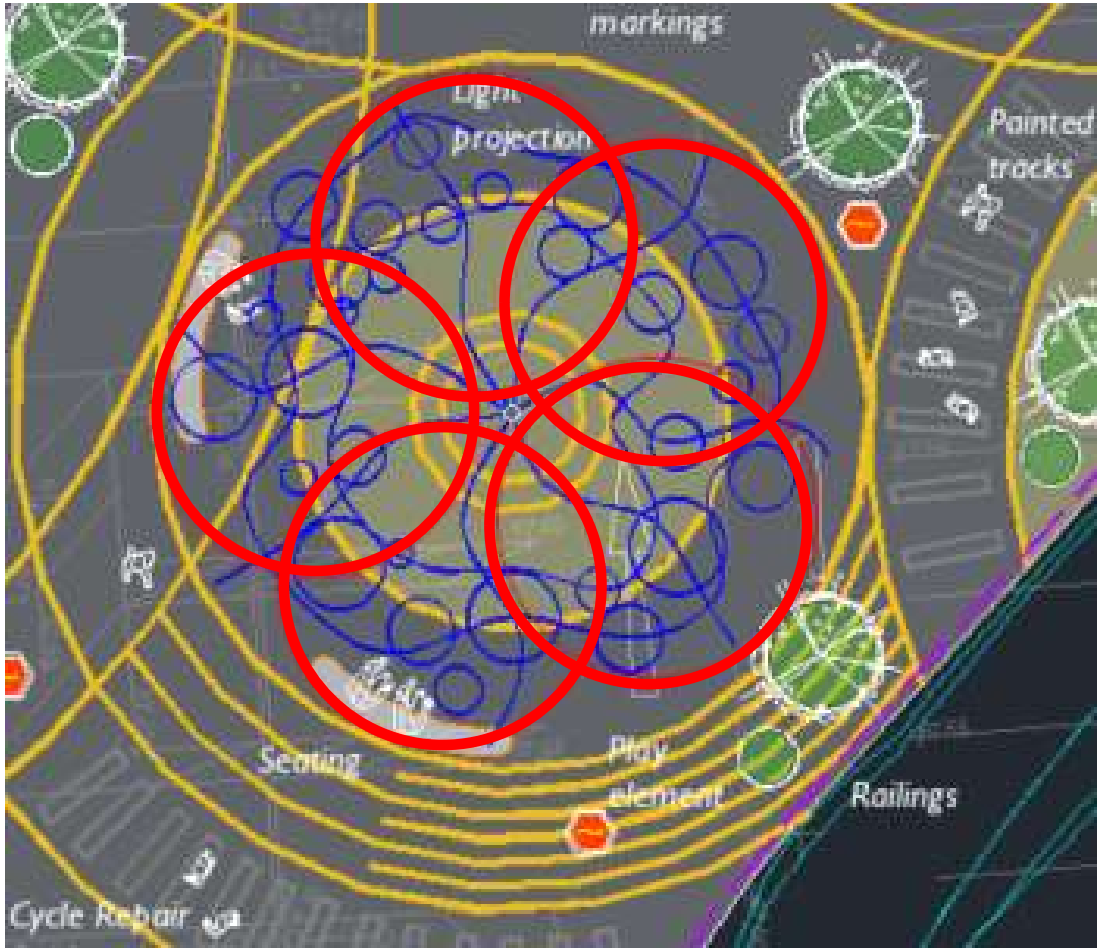
White GOBO Projector



With an image diameter of 5.5m, if four FLC230-GP projectors were used on an 8m column a lot of the intended area would be covered, but maybe not as much as desired.

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White GOBO Projector

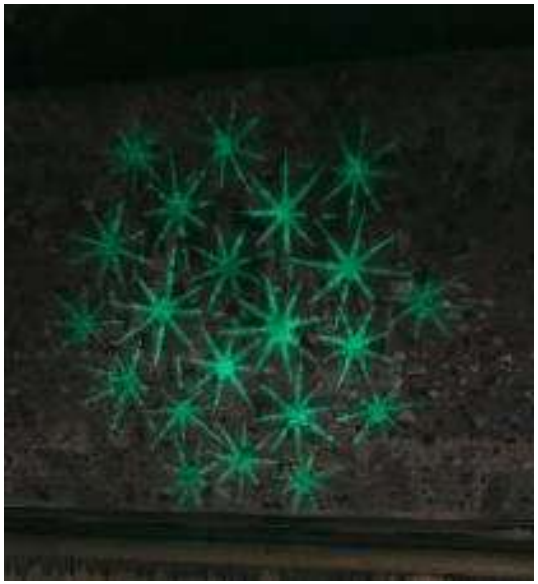


With an image diameter of 5.5m, if five FLC230-GP projectors were used on an 8m column the majority of the area would be covered.

However, depending on the image pattern consideration of the crossover sections may be needed to prevent a confusing image/pattern.

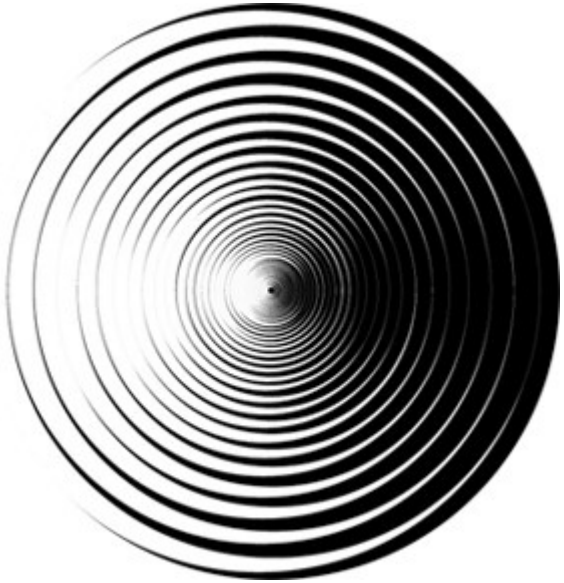
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RGBW GOBO Projector



If a colour changing FLC230-CC-GP is required, then a none coloured gobo should be used as the mix of colours do not work well.





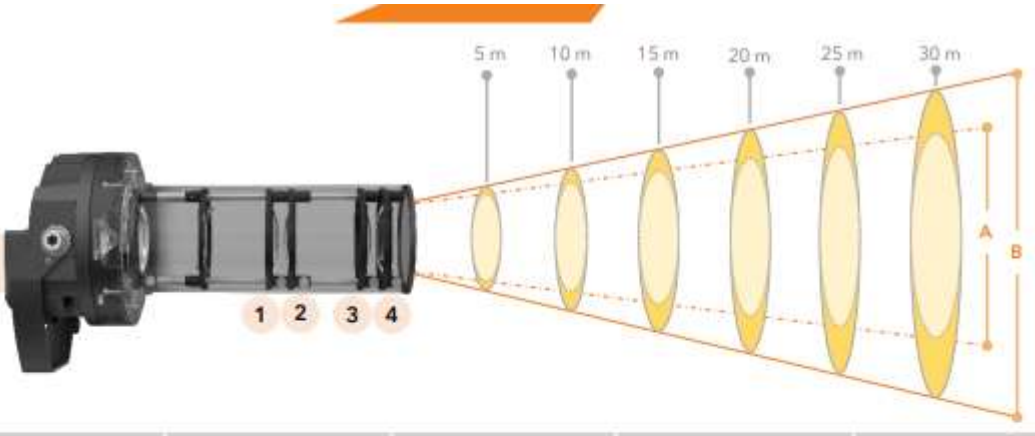
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FLC230 PP CC/TW

[GP] Opening angle

4-lens configuration

Zoom-spot depending on the distance



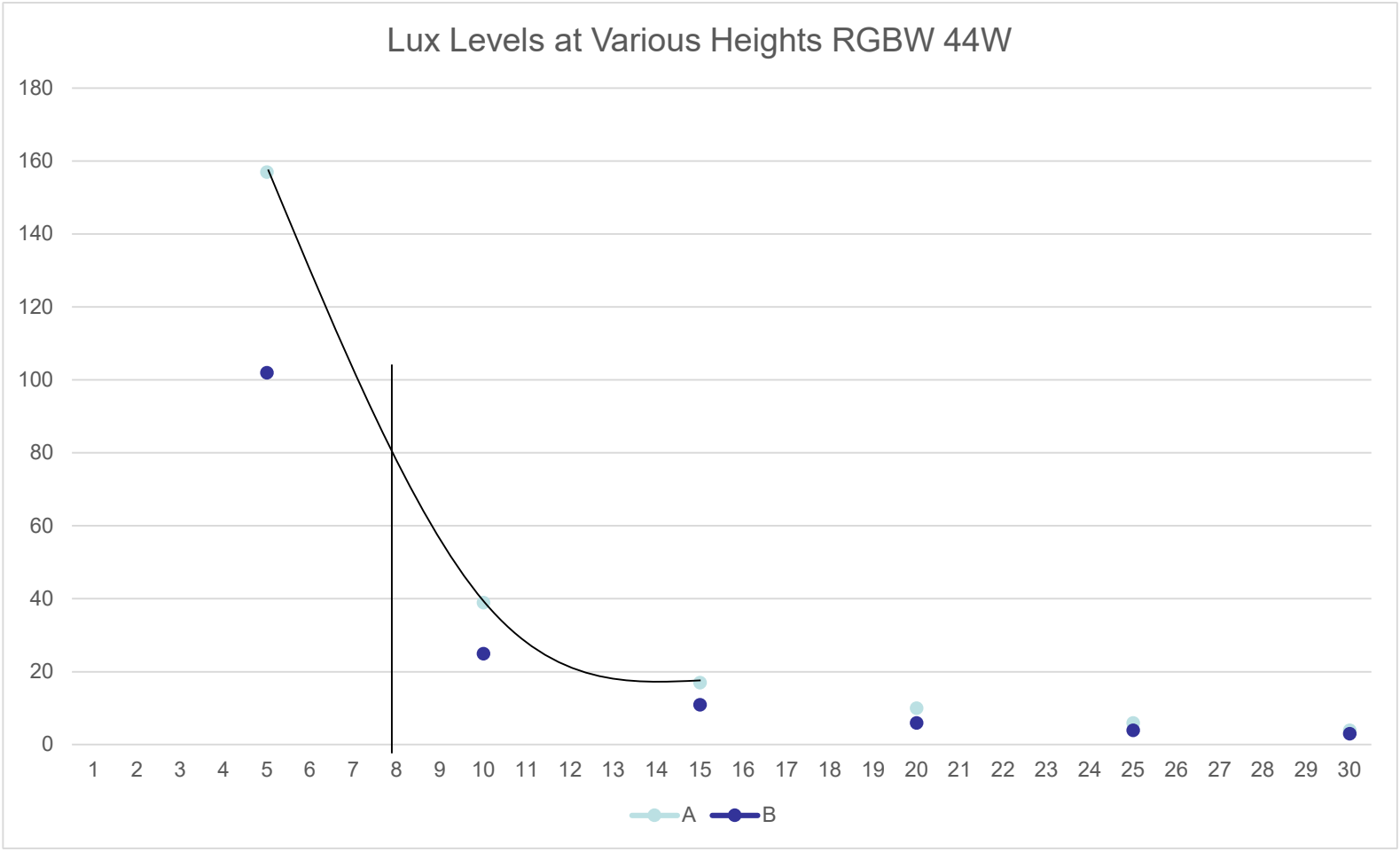
Distance (m)	5 m		10 m		15 m		20 m		25 m		30 m	
Opening angle A= 34° B=42°	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**
Diameter (m) from A - B	3 m	3.8 m	6 m	7.6 m	9 m	11.5 m	12 m	15.2 m	15 m	19 m	18 m	23 m
Em* RGBW | 44 W | 300 mA from A-B (lux)	132	86	33	21	15	10	8	5	5	3	4	2
Em* RGBA | 44 W | 300 mA from A-B (lux)	116	76	29	19	13	8	7	5	5	3	3	2
Em* TW 2700 - 6000 K | 32 W | 450 mA from A-B (lux)	157	102	39	25	17	11	10	6	6	4	4	3

* Em = average illuminance on the illuminated surface

Compared to the white version the diameter does not change much, but the lumen output is reduced for this option.

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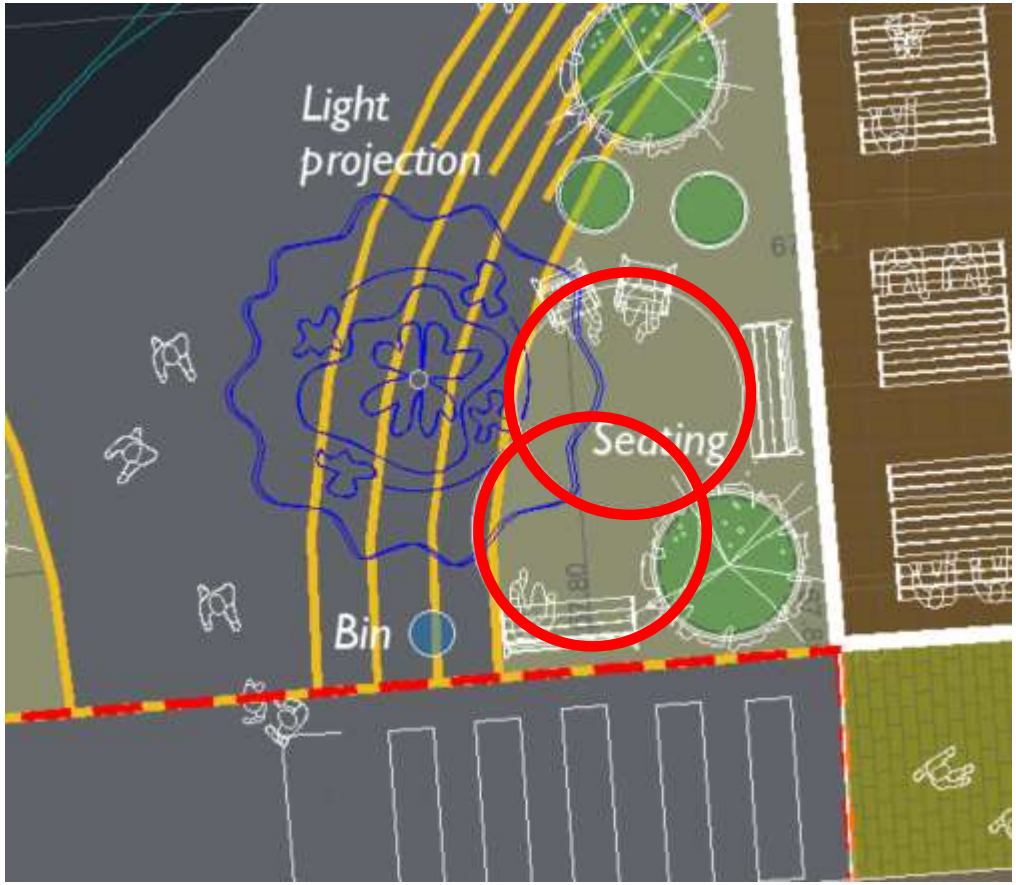
RGBW GOBO Projector

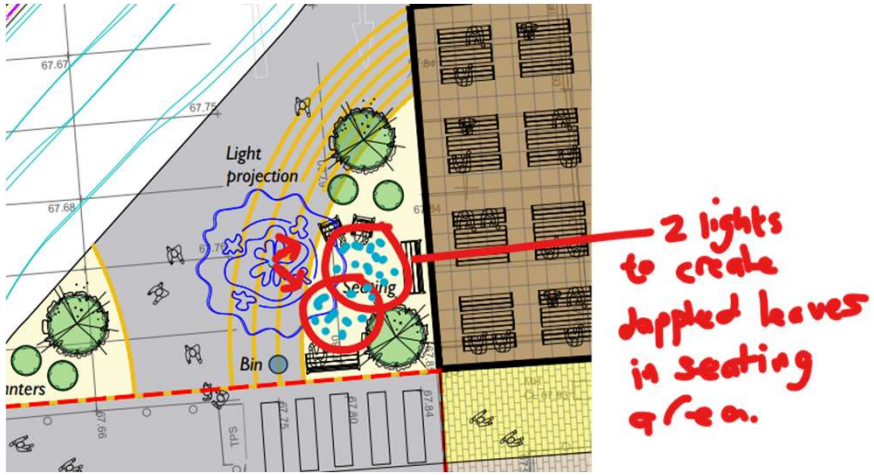


Therefore, Lux level at 8m would be approximately 80 Lux

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GOBO Projector Small Area



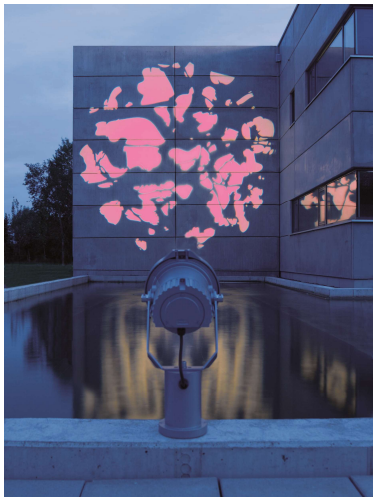


With a column height of 5m the image diameter of 3.5m. 2 projectors would cover as indicated in the sketch above.

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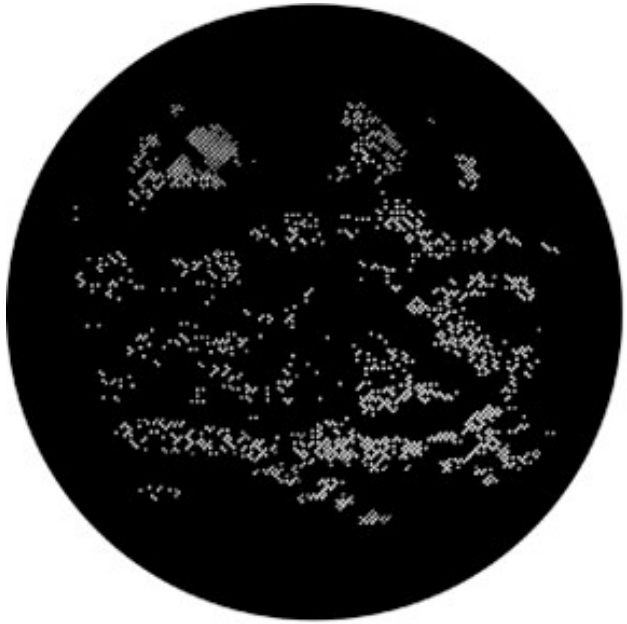
GOBO Projector Small Area





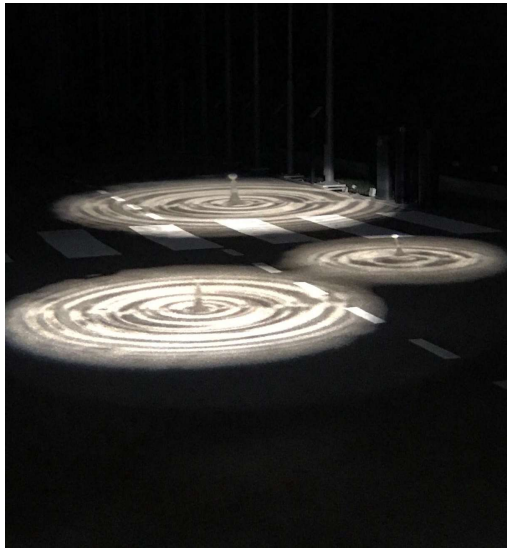


Dappled effect can be created with a standard gobo image. No additional or special design needed.



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Examples











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Music Play

Playcubed

https://www.playcubed.co.uk/product-category/play/music-play

Our playground musical instruments offer a fantastic way to encourage children to be creative through play. Sensory stimulation and active play is essential for the development of any child, which is why playground musical instruments are an important part of any play area. As leading providers of playground equipment, here at PlayCubed we supply and install equipment that is durable and safe. Browse our selection of playground musical instruments below or discover the rest of our range of sensory play equipment.

Samba Drums





Eco-tongue Drum,

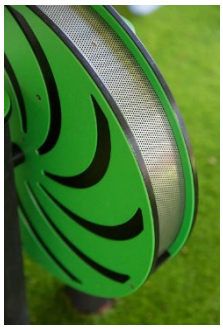


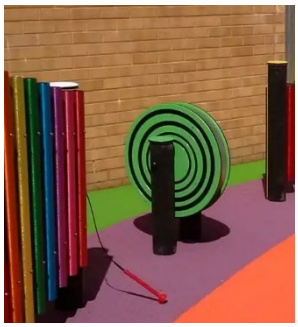




Eco-rain Wheel







Eco- Chimes







These activities encourage children to express their musical skills, and develop

co-ordination as they practice beats and keep rhythm with each other. Music Play items are often coupled together to form an interactive and inspiring music zone, but can easily be added to an existing play area as a creative extra.

Children of all abilities and ages can join in together with outdoor musical activities. A wide range of traditional musical play instruments such as xylophones, bongos and chimes can
be augmented by rain wheels, tongue drums and bell trees.

Music Play

Hand Made Places

https://www.handmadeplaces.co.uk/playground-equipment/music-performance?p=2

Providing space in the playground for children and young people to explore and engage with the arts helps them to develop their individual responses and reactions. Exploring different sounds and the type of music created by different instruments helps to develop listening and understanding.

Playground performance areas can provide a safe, comfortable space where young people can overcome any shyness or hesitation. They also link in with physical development.

These play areas can appeal to a broad spectrum of playground visitors, offering an alternative to active play. Through imaginative play, children can instead act out their dreams and ambitions from performing at a pop concert to acting out their favourite stories.

Playgrounds which feature music and performance areas naturally support the development of literacy and communication skills too.

Music and performance areas provide multi-sensory experiences, enriching vocabulary and encouraging children's curiosity as well as their confidence. Activities surrounding music and performance can be tied in with many areas of the curriculum and school playgrounds are ideal for this type of playground equipment. Their musical instruments and other sensory play equipment provide inclusive opportunities for young and old to get together and raising cultural awareness.

A WIDE RANGE OF MUSIC PLAY FEATURES ARE AVAILABLE...



Calypso Chimes



Harmony Bells



Harmony Flowers



Rain wheel





Petal Drums





Rainbow Sambas

Train/ Carriage

Look to get a bespoke seat/ play feature created by a local furniture manufacturer. Estimated to be about £3k for a 1.5 x 2m sized seat/artwork to look similar to the image below.





DIJON

TECHNICAL SPECIFICATION

This Range

Limestone effect porcelain, with natural and grip finish. Flowing from inside to outside, with 10mm and 20mm thickness. A tumbled edge for that quality natural stone look.

Exterior | Heavy Footfall | Pool Edging | Stairs

Sizes	Colours Available in:
900 x 600 x 10mm rectified natural 900 x 600 x 20mm rectified grip R11/C skirting 900 x 65 x 10mm rectified	Gold, Pearl, Grey

Colours



Gold



Grey



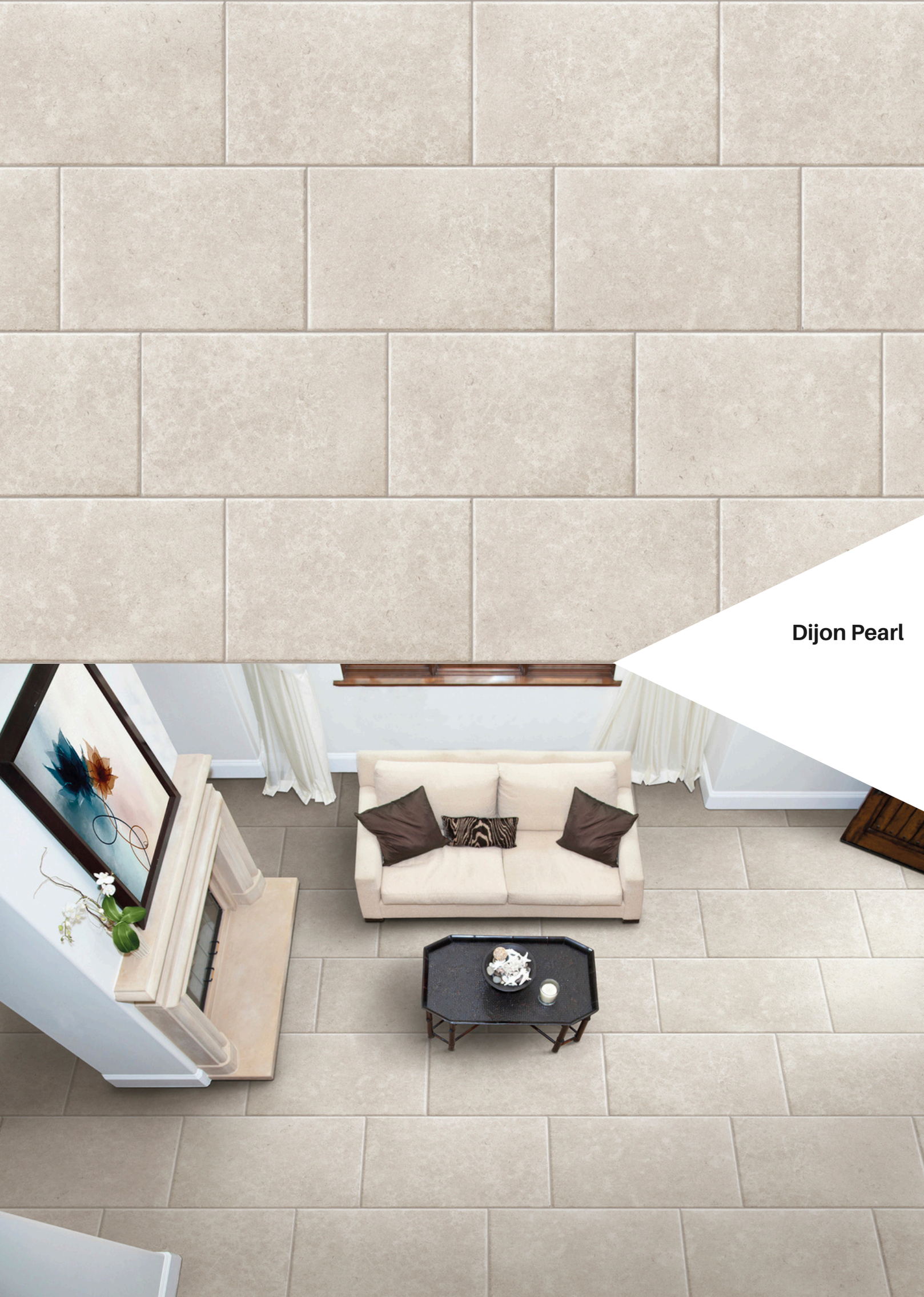
Pearl

Technical Details

Technical Features	Test Method	Required Values	Average Values
Water Absorption	ISO 10545-3	≤ 0,5%	**0,05%**
Breaking Strength	ISO 10545-4	≥ 1300 N	**CONFORM**
Modulus of Rupture	ISO 10545-4	≥ 35 N/mm2	**≥ 35 N/mm2**
Durability: Internal	EN 14411:2012		**Passed**
Durability: External	EN 14411:2012		**Passed**
Thermal Shock Resistance	EN 14411:2012		**Passed**
Adhesion Resistance			
- Cementitious adhesive C1 class	EN 14411:2012		**≥ 0,5 N/mm2**
- Cementitious adhesive C2 class	EN 14411:2012		**≥ 1,0 N/mm2**
Chemical Resistance	ISO 10545-13	As indicated by manufacturer	**UNAFFECTED**
Frost Resistance	ISO 10545-12	No alteration	**FROST PROOF**
Slip Resistance	DIN 51130 / R-DIN 51097		**R10 Naturale R10 /"B"**
	DIN 51130 / R-DIN 51097		**Grip: R11 / C**
Length & Width *			
Shade Variation		As indicated by manufacturer	**V2 Slight variations**
Fire Reaction	EN 14411:2012		**Class A1 (wall) Class A1fl (floor)**
Recommended minimum joint Interior/Exterior		RECT (Interior) Outdoor	**2mm 5-6mm circa/approx**



Dijon Gold


Dijon Pearl

Dijon Grey





204 Duggins Lane, Tile Hill, Coventry, CV4 9GP
02475 092 859
www.keystoneco.co.uk