

Dante, rugged IP65 exterior bollard. Features low energy and HID light sources, with 45° louvre stack reducing glare and light pollution. The durable die-cast aluminium head and body sustains Dante's vandal resistance. Ideally suited for car parks, precincts, paths etc.



### Features:

- IP54 (dust proof & water splash proof)
- Choice of light sources
- Integral control gear
- 45° louvre stack for reduced glare & light pollution
- Detachable head for quick/easy maintenance
- Vandal resistant aluminium castings
- Corrosion resistant

### Options:

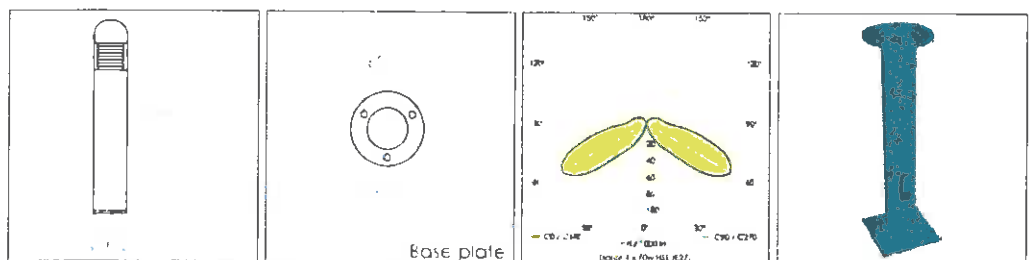
- Metal halide light source
- High pressure sodium light source
- Low energy compact fluorescent light source
  - High frequency (HF) control gear ••
- Flange mounting
- Root mounting

### Material:

- Body & head: die-cast aluminium
- Lens: polycarbonate

### Finish:

- Body & head: black
- Lens: clear



## Dante

Lamp type **metal halide**

**Metal halide**

1 x 70w HIE (E27)

OAD 70/MH

**High pressure sodium**

1 x 70w HSE (E27) 

OAD 70/HPS

**Low energy**

1 x 42w TC-TE (GX24q4)

OAD 42/LE

# Mistral

## Exterior Techna Luminaires

Techna Mistral, contemporary IP65 low energy compact fluorescent luminaire, with integral 3hr maintained emergency options. Available with either Smart, Grill or Visa fascias; Visa being ideal for the control of light pollution. Suitable for building facades, pedestrian areas, stairwells, passages etc.



Mistral Smart



Mistral Grill



Mistral Visa

### Features:

- IP65 (dust tight & water jet proof)
- Low energy compact fluorescent light source
- High Frequency (HF) control gear
- Wall or ceiling mounting
- Corrosion resistant
- Contemporary design

### Options:

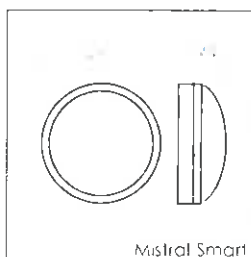
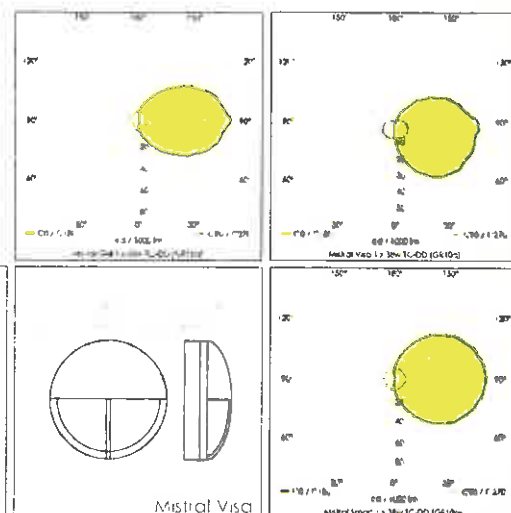
- Mistral Smart
- Mistral Grill
- Mistral Visa
  - Visor for control of light pollution
  - Wall mounting
- Integral 3hr. maintained emergency (E3)
- Choice of body finishes

### Material:

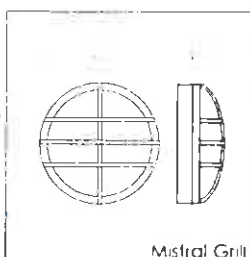
- Body: die-cast aluminium
- Lens: polycarbonate

### Finish:

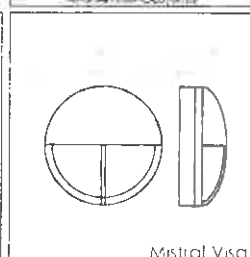
- Body: black, metallic grey
- Lens: opal



Mistral Smart



Mistral Grill



Mistral Visa

## Mistral

### Lamp type

#### Mistral Smart

- 1 x 28w TC-DD (GR10q)
- 1 x 38w TC-DD (GR10q)

#### Mistral Grill

- 1 x 28w TC-DD (GR10q)
- 1 x 38w TC-DD (GR10q)

#### Mistral Visa

- 1 x 28w TC-DD (GR10q)
- 1 x 38w TC-DD (GR10q)

### High Frequency (HF) Emergency (E3) (integral gear)

- OTMS 328/†
- OTMS 338/†

- OTMG 328/†
- OTMG 338/†

- OTMV 328/†
- OTMV 338/†

† Suffix colour code: B - black, MGY - metallic grey (e.g. OTMS 328/B)

# Brickette

## Exterior Recessed Luminaires

Brickette, recessed IP65 low energy compact fluorescent wall luminaire. Brickette Visa complete with Visor for control of light pollution. Ideal for exterior applications, including building facades, steps, footpaths etc.



Smart



Visa

### Features:

- IP65 (dust tight & water jet proof)
- IK6 (1 joule) shock resistance (mini)
- IK7 (2 joule) shock resistance (midi)
- Low energy compact fluorescent light source
- Switchstart (S) control gear
- Recessed wall mounting
- Corrosion resistant
- To be used in conjunction with recessing housing

### Options

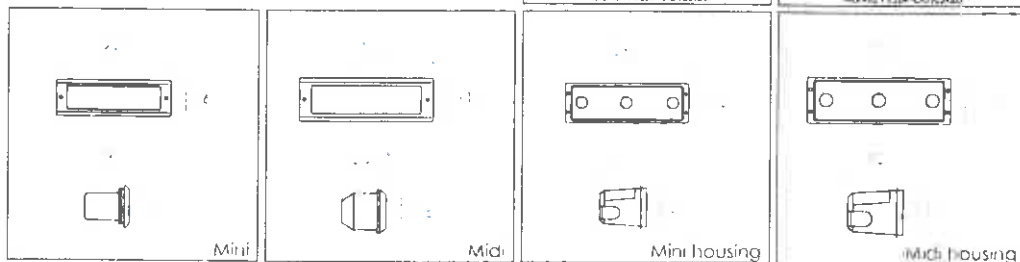
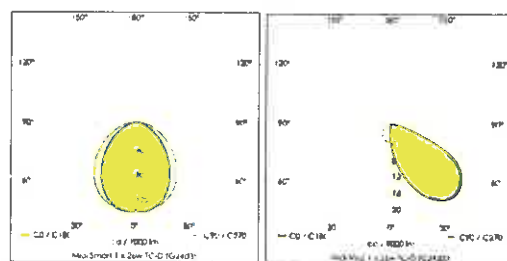
- Brickette Visa
  - Visor for control of light pollution
- Metallic grey body finish available on request

### Material:

- Body: die-cast aluminium
- Lens: glass

### Finish:

- Body: black (powder coated)
- Lens: satin



### Brickette

| Lamp type                    | Smart      | Visa       |
|------------------------------|------------|------------|
| Mini<br>1 x 9w TC-S (G23)    | ORB 8094   | ORB 8102   |
| Recessing housing            | ORB 325900 | ORB 325900 |
| Midi<br>1 x 26w TC-D (G24d3) | ORB 8071   | ORB 8075   |
| Recessing housing            | ORB 319200 | ORB 319200 |

## Exterior Buried Uplighters

Cerberus, an IP67 range of exterior buried uplighters. Utilises HIT metal halide ceramic arc and low energy light sources, with symmetrical, asymmetrical or adjustable light distribution. Ideal for areas where raised lighting would be too obtrusive: building facades, driveways, walkways, subways, gardens etc.



Mini with asymmetrical reflector



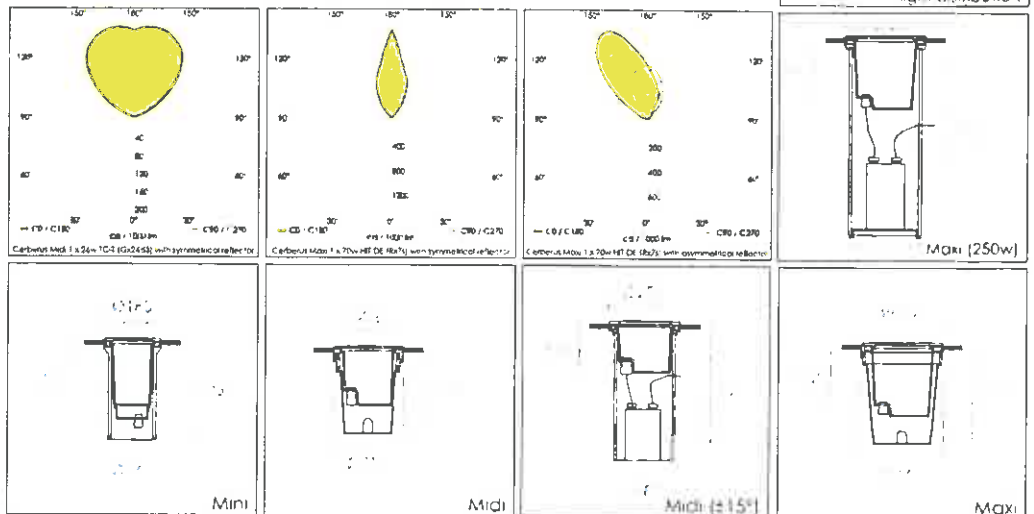
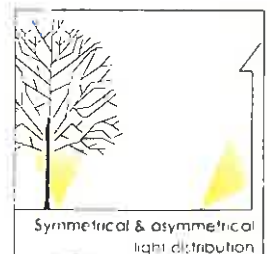
Maxi with symmetrical reflector

### Features:

- IP67 (dust tight & temporary water immersion)
- IK10 (20 joule) shock resistance
- Choice of light sources
- Recessed mounting
- Max static load: 2000kg
- Max drive over speed: 15mph
- Corrosion resistant
- Through wiring possible
- PG13.5 cable gland
- Use with H07RN-F cable

### Options:

- HIT metal halide ceramic arc high output light source
  - Integral magnetic ballast
  - Tiltable versions available ( $\pm 15^\circ$ )
  - Deep versions accept high wattage HID lamps
- Low energy compact fluorescent light source
  - Switchstart (S) control gear
- Symmetrical or asymmetrical reflectors available
- Anti-slip glass lens available on request
- Wire guard available on request
- Tamper resistant screws available on request
- Low temperature versions available (See data sheet H7/103)



### Material:

- Body: die-cast aluminium
- Housing: polypropylene
- Bezel: stainless steel
- Lens: tempered protection glass

### Finish:

- Body: black (powder coated)
- Bezel: stainless steel
- Lens: clear



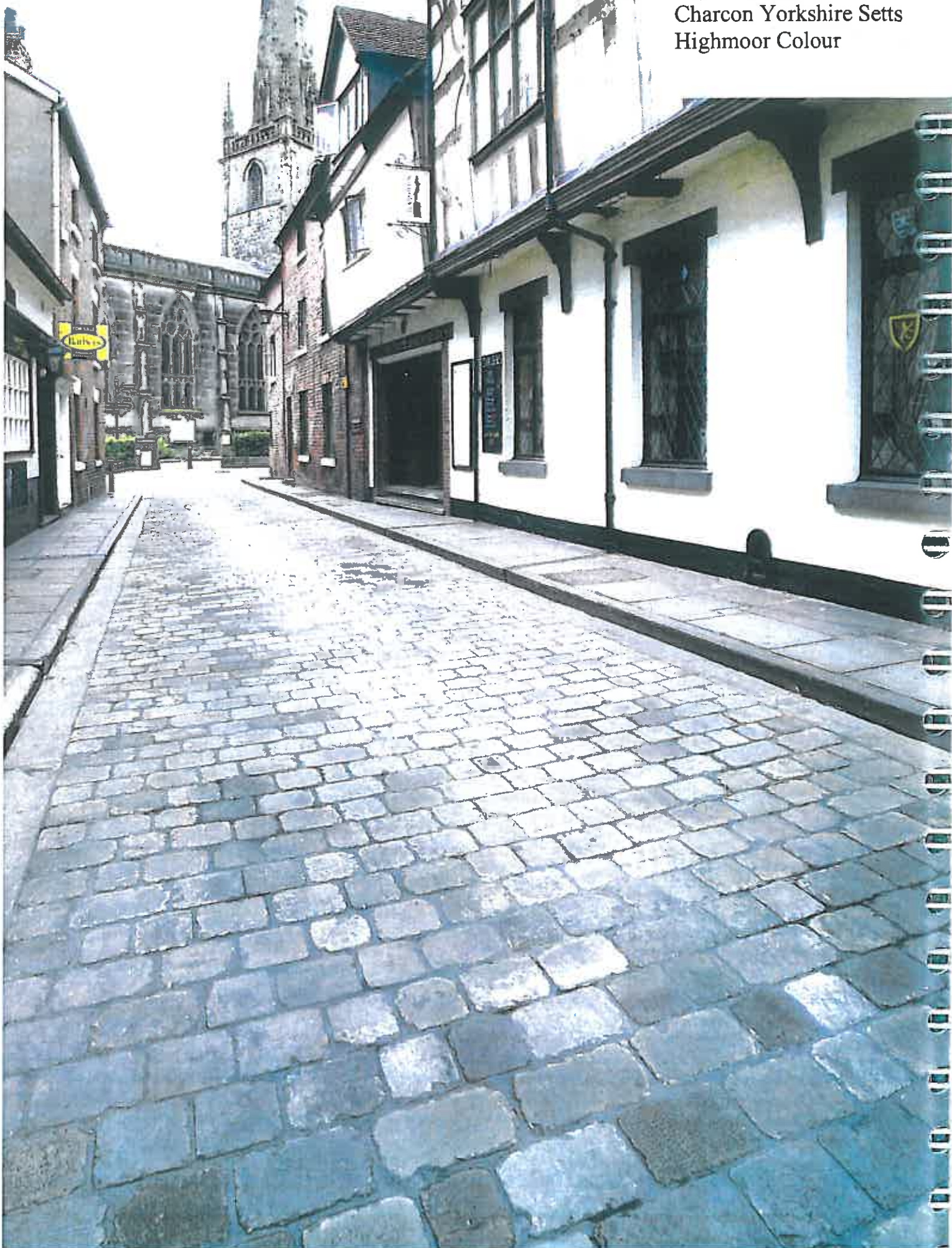
These luminaires are designed to comply with  
EN 60598-1 (BS 4533:101)



## Cerberus

| Lamp type             | Beam       | Tilt           | Ordering Code | Lamp type              | Beam      | Tilt           | Ordering Code |
|-----------------------|------------|----------------|---------------|------------------------|-----------|----------------|---------------|
| <b>Mini</b>           |            |                |               | <b>Maxi</b>            |           |                |               |
| 1 x 18w TC-T (Gx24d2) | Sym (130°) | N/A            | OBC 8260      | 1 x 70w HIT (G12)      | Sym (60°) | $\pm 15^\circ$ | OBC 8172      |
|                       |            |                |               | 1 x 150w HIT (G12)     | Sym (60°) | $\pm 15^\circ$ | OBC 8173      |
| <b>Midi</b>           |            |                |               |                        |           |                |               |
| 1 x 26w TC-T (Gx24d3) | Sym        | N/A            | OBC 8150      | 1 x 70w HIT-DE (Rx7s)  | Sym       | N/A            | OBC 8300      |
| 1 x 35w HIT (G12)     | Sym        | N/A            | OBC 8110      | 1 x 150w HIT-DE (Rx7s) | Sym       | N/A            | OBC 8301      |
| 1 x 35w HIT (G12)     | Asy        | N/A            | OBC 8175      | 1 x 250w HIT-DE (Fc2)  | Sym       | N/A            | OBC 8302      |
| 1 x 35w HIT (G12)     | Sym (10°)  | $\pm 15^\circ$ | OBC 8161      | 1 x 70w HIT-DE (Rx7s)  | Asy       | N/A            | OBC 8310      |
| 1 x 70w HIT (G12)     | Sym (10°)  | $\pm 15^\circ$ | OBC 8162      | 1 x 150w HIT-DE (Rx7s) | Asy       | N/A            | OBC 8311      |
| 1 x 150w HIT (G12)    | Sym (10°)  | $\pm 15^\circ$ | OBC 8163      | 1 x 250w HIT-DE (Fc2)  | Asy       | N/A            | OBC 8312      |
| 1 x 35w HIT (G12)     | Sym (60°)  | $\pm 15^\circ$ | OBC 8168      |                        |           |                |               |

Type 1 Finish  
Charcon Yorkshire Setts  
Highmoor Colour



# Natural Yorkstone setts

*Charcon offers a natural palette of colours that reflects the long and august history of this beautiful and hardwearing product, which is as at home in traditional as the most contemporary environments.*

## Trafficking

- All pedestrian areas.
- Some vehicular traffic.

## Features and benefits

- Unique, natural colour ranges.
- Precision cutting options for light tolerance projects.
- Perfect for heritage or contemporary applications.
- Ability to match local material colour and texture.
- Superb strength and durability.
- National availability.

See also case study, pages 48-49.

## Complementary products

For use with Natural Yorkstone paving (page 37), Natural Granite paving (page 34) and Natural Granite kerb (page 68).

## Standards

Natural Yorkstone setts products comply with the performance levels in European Standard BS EN 1342.

## Quarrying

Charcon have sourced products from the major Yorkstone locations in the UK to offer the highest quality materials and to allow the designer maximum scope.

## Performance

### Skid resistance

Available upon request, please contact Charcon Technical Services.

### Strength

Available upon request, please contact Charcon Technical Services.

## Specification clauses

For further information, please refer to Charcon Technical Services.

## Sizes available

200x100 mm or 100x100 mm (sizes made to order).

Typical depths – 50, 63 and 75 mm

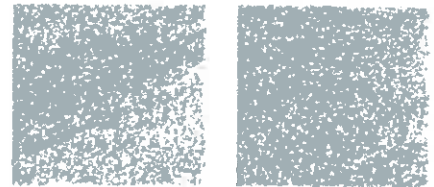
## Packaging

Charcon Natural Yorkstone setts are normally supplied palletised.

### Note:

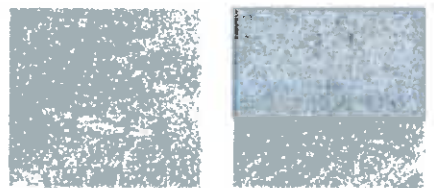
All full colour images in this brochure are as accurate as the printing process will allow. It is advised that these colours should be verified against actual natural stone samples.

## Colour availability



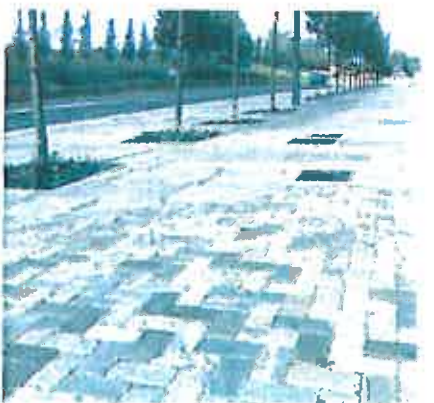
### Highmoor

Charcon Highmoor is distinctive and popular. Its highly colourful patterning ranges from cream/buff to golden/brown. The grey and blue colour variation in individual slabs is dramatic and, combined with its high-quality technical properties, makes it ideal for high specification applications.



### Moorland

Charcon Moorland is a mix of grey and natural buff giving the product a highly distinctive appearance, and aesthetic liveliness. This product gives a highly distinguished finish to any scheme.



### Key to photographs:

Opposite: Yorkstone Setts, Shrewsbury High Street

Right: Yorkstone Setts A4500 Wheedon Road, Northampton.

Type 2 Finish  
Marshalls Drivesett Deco  
Traditional Colour

A traditional cobbled  
effect on entire  
driveways, paths or  
patios is easy to achieve  
with versatile  
Tegula Deco



Drivesett Tegula Deco Traditional (T11), edged with Drivesett  
Kerb Traditional (K11). Ideally Drivesett Tegula Deco should be laid  
across the width and not parallel to the drive



Marshalls

# Drivesett<sup>®</sup> Tegula<sup>®</sup> Deco

A smaller tumbled  
rustic block with a  
traditional finish



24kg CO<sub>2</sub>  
per m<sup>2</sup>

DRIVEWAYS

## Drivesett Tegula Deco

- Can be used for driveways, patio features, edges or pathways often with unique design results
- Rich complementary colours can be mixed to create individual blends whatever the application
- Drivesett Tegula Deco's traditional cobbled effect complements a broad range of Marshalls products
- Drivesett Tegula Deco is supplied shrink-wrapped in 2 pack sizes
- You can buy less than the pack quantities if required - minimum quantity is 1 square metre (See 'Order Select' p 169)
- An intermediate restraint will be required if subjected to vehicle overrun  
For further advice contact the Technical Advisory Service on 0870 411 2233
- For co-ordinating kerbs and edgings (see p 152-155)

| Drivesett<br>Tegula<br>Deco | Size mm<br>(nominal) | No./Pack | Weight<br>(kg/pack) | Area<br>(m <sup>2</sup> /pack) | Colours  | Order Select | kg CO <sub>2</sub><br>per m <sup>2</sup> |
|-----------------------------|----------------------|----------|---------------------|--------------------------------|----------|--------------|------------------------------------------|
|                             | 110 x 110 x 50       | 882      | 1230                | 10.67                          | T, C, CI | ✓            | 24                                       |
|                             |                      | 441      | 615                 | 5.34                           | TR       |              | 24                                       |

- Blocks are grooved on 1 edge. To ensure an even course width, the blocks should be laid with the grooved edge in the same orientation
- Joint filling sand and Keybond are recommended (p 155)



Tegula is a trademark of SF Corporation



Traditional (TR)



Terracotta (T)



Cotswold (C)



Cinder (CI)



Type 3 Finish  
Marshall's Saxon Paving  
Buff Colour

Prominent Yorkstone  
aggregates lend paving  
a distinctive character  
with a hint of modernity

Saxon Paving, Buff (61)  
Installed by Garden House Design, Wokingham



# Saxon<sup>®</sup> Paving

Saxon's popularity is testament to its ability to perfectly complement all kinds of garden landscapes



16kg CO<sub>2</sub> per m<sup>2</sup>

## Saxon Paving and Stepping Stones

- The ideal paving for a family garden
- Can be laid on a mortar bed with mortar-pointed joints of 8-10mm
- Can also be laid on screeded sand with sand-filled joints of 2-5mm for units 450 x 450 or smaller
- On no account must Saxon Paving be butt jointed
- Can be obtained in less than full pack quantities (where indicated ✓ in 'Order Select' in the table), see p 169

**Made with  
Yorkstone aggregate**

**Attractive coarse  
granular appearance and  
excellent non-slip properties  
even when wet**

| Paving | Size mm (nominal) | No. /m <sup>2</sup> ** | Weight (kg/each) | Weight (kg/pack) | No. /pack | Colours | Order Select | kg CO <sub>2</sub> per m <sup>2</sup> |
|--------|-------------------|------------------------|------------------|------------------|-----------|---------|--------------|---------------------------------------|
|        | 600 x 600 x 35    | 2.7                    | 32               | 960              | 30        | N, B, M | ✓            | 16                                    |
|        | 600 x 300 x 35    | 5.3                    | 16               | 480              | 30        |         | ✓            | 16                                    |
|        | 450 x 450 x 35    | 4.7                    | 16.5             | 990              | 60        |         | M**          | 16                                    |
|        | 300 x 300 x 35    | 10.4                   | 7                | 420              | 60        |         | ✓            | 16                                    |

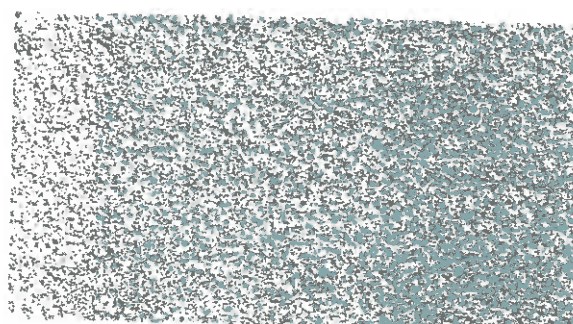
\*\* Available in Mocha only

\* Assuming nominal 10mm joint widths

| Stepping Stones | Size mm (nominal) | No. /m <sup>2</sup> | Weight (kg/each) | Weight (kg/pack) | No. /pack | Colour | Order Select | kg CO <sub>2</sub> Each |
|-----------------|-------------------|---------------------|------------------|------------------|-----------|--------|--------------|-------------------------|
|                 | 600 dia x 35      | N/A                 | 25               | 750              | 30        | B      | ✓            | 5.0                     |



Mocha (M)



Natural (N)



Buff (B)

