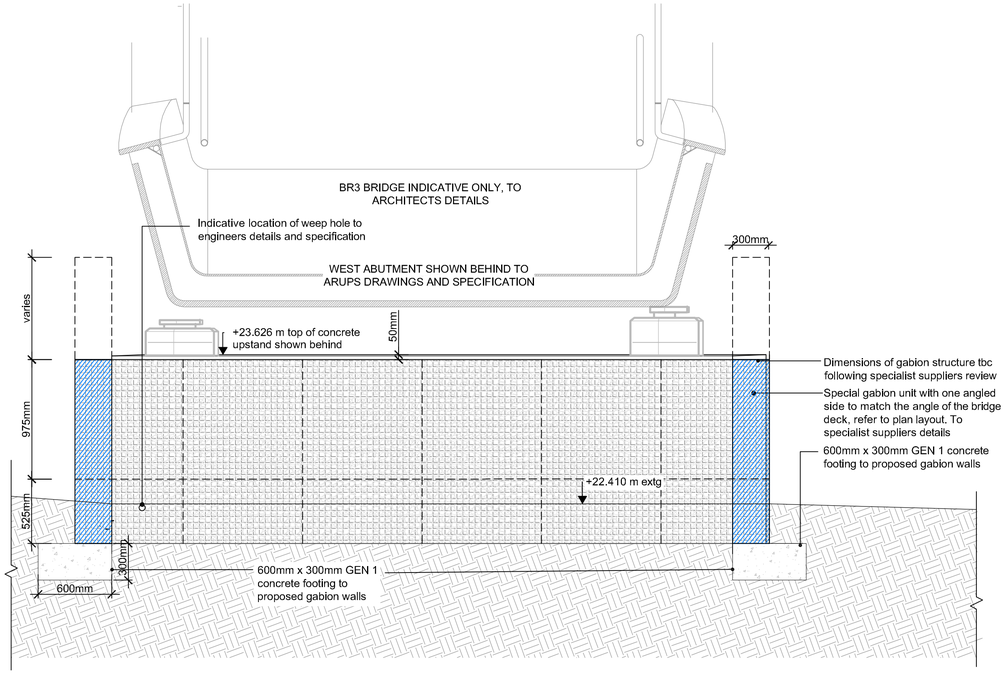
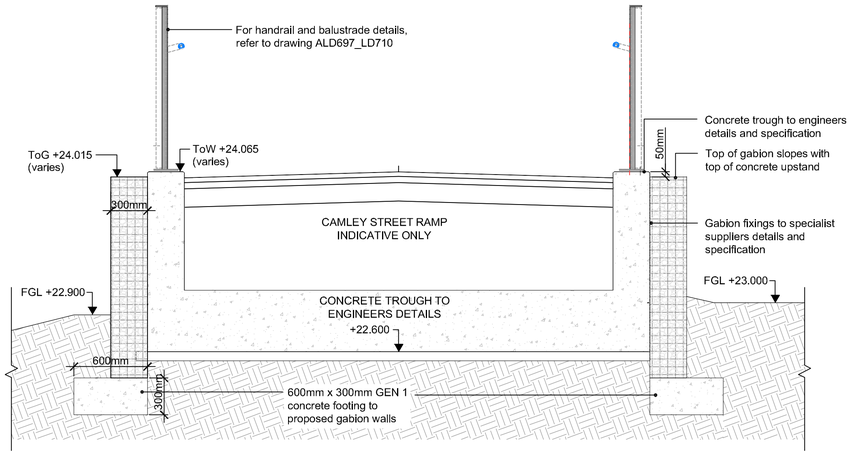
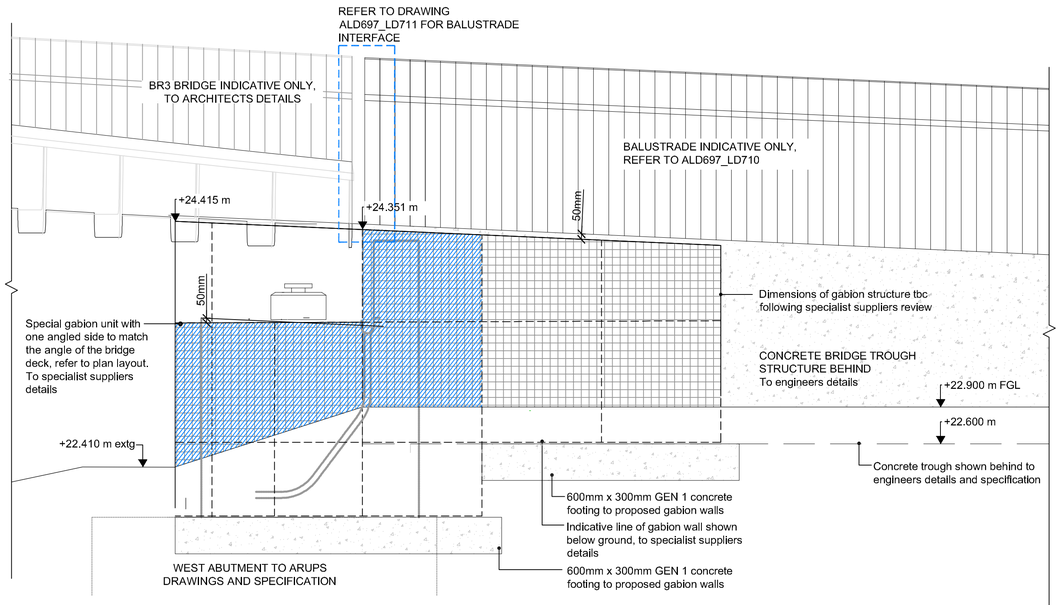


G03 LD721 SECTION ELEVATION SHOWING WEST ABUTMENT & GABION WALL
1:20 @ A1

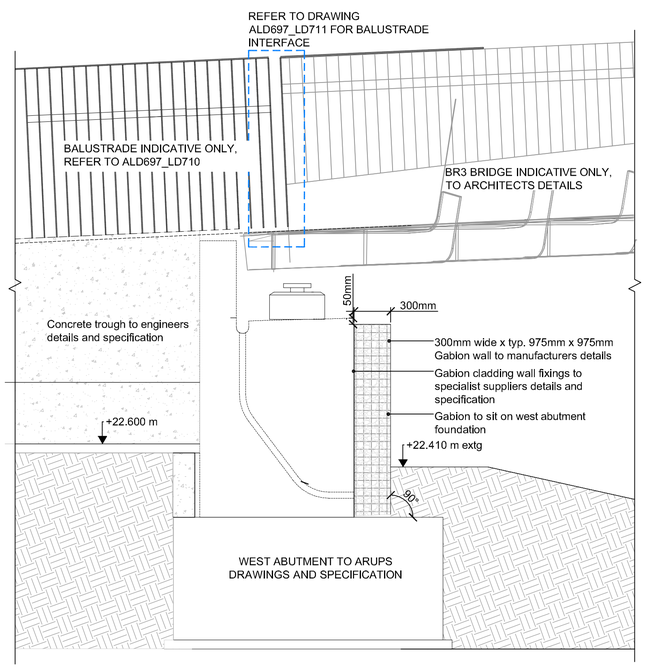
NOTE:
- All gabion basket dimensions indicative only, to be confirmed / developed by specialist supplier
- gabion baskets to be filled with Kent Ragstone as per enviromesh details
- All levels to be reviewed on site once bridge structure and abutments are constructed, levels shown indicative only.
- Soft landscape and earthworks details not shown for clarity
- Balustrades shown indicative only, refer to ALD697_LD710 - LD711



G05 LD721 SECTION ELEVATION SHOWING WEST ABUTMENT & GABION WALL
1:20 @ A1



G04 LD721 ELEVATION SHOWING GABION WALL TO NORTH OF CAMLEY STREET RAMP
1:20 @ A1



G06 LD721 DETAILED SECTION THROUGH WEST ABUTMENT SHOWING GABION WALL
1:20 @ A1

CDM/H&S:

The works illustrated on this drawing have been reviewed against the Design CDM Risk Register and significant risks are noted as:

Construction:
- Handling heavy materials
- Working at height / risk of falls
- Working adjacent to canal

Maintenance:
- Working adjacent to canal

Demolition:

NOTES / KEY:

Drawing issued for Gabion wall specialist manufactures details and review only, all finished ground levels indicative and subject to further design development.

Gabion wall specialist supplier to provide specification and fabrication drawings

REFERENCE DRAWINGS/DOCUMENTS

ALD697_HL101	Hard Landscape Layout, Camley Street Ramp
ALD697_HL102	Hard Landscape Layout, Bridge Deck
ALD697_HL120	Fence and Enclosure Layout

REVISIONS

no.	issued	date
C01	First Issue for Construction	26.08.2016
P01	First Issue for comment / review	25.02.2016

CLIENT: carillion

LANDSCAPE ARCHITECT:
The Threshing Barn
Bignell Park Barns
Chesterton, Nr. Bicester
Oxfordshire,OX26 1TD
Tel: 01869 249776
Email: mail@appliedlandscape.co.uk
ALD applied landscape design

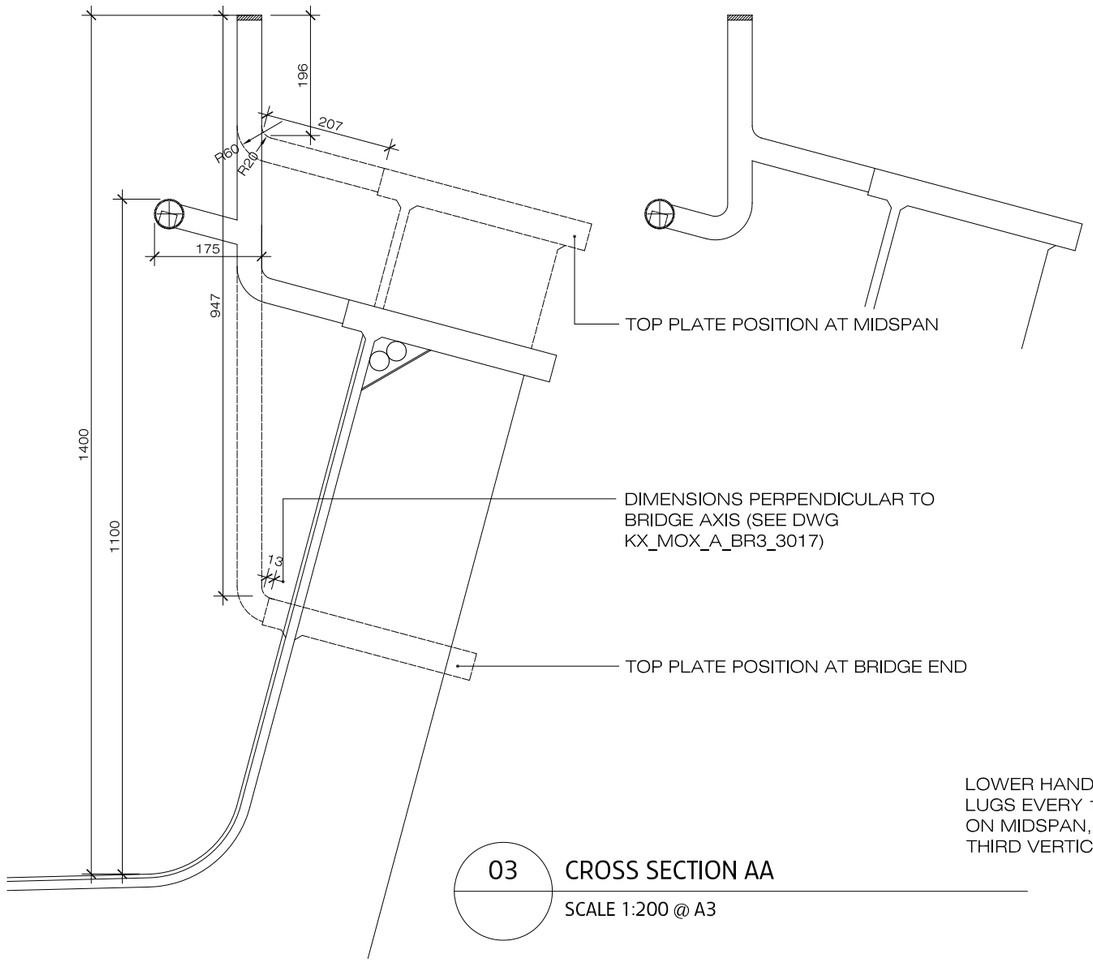
PROJECT:
CAMLEY STREET BRIDGE
KINGS CROSS CENTRAL

DRAWING TITLE:
WEST ABUTMENT GABION WALL
ELEVATIONS & SECTIONS

drawn:	scale:
CW	1:20 @ A1
checked: KmJ	status: Construction
date: 15.11.2015	xref file ref: ALD697_LDbase

PROJECT NO.	DRAWING NUMBER:	REVISION:
ALD697	LD721	C01

ORIGINAL A1 SIZE SHEET

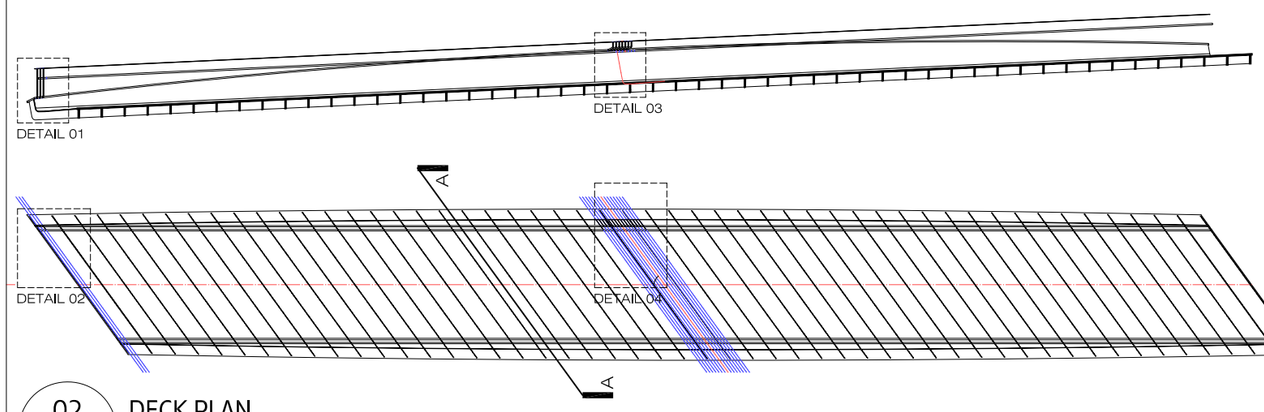


03 CROSS SECTION AA

SCALE 1:200 @ A3

01 LONG SECTION THROUGH CENTRELINE

SCALE 1:200 @ A3



02 DECK PLAN

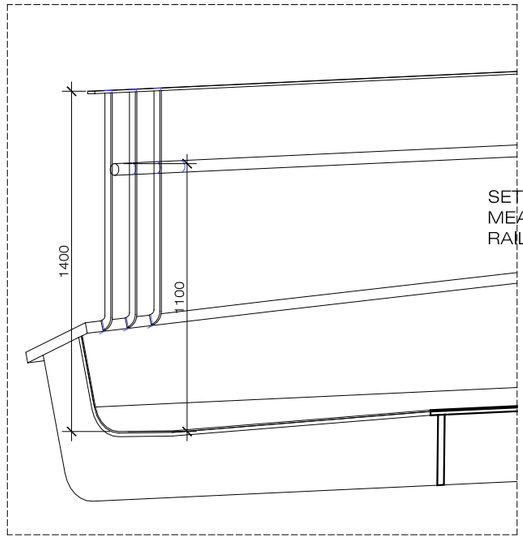
SCALE 1:200 @ A3

NOTES

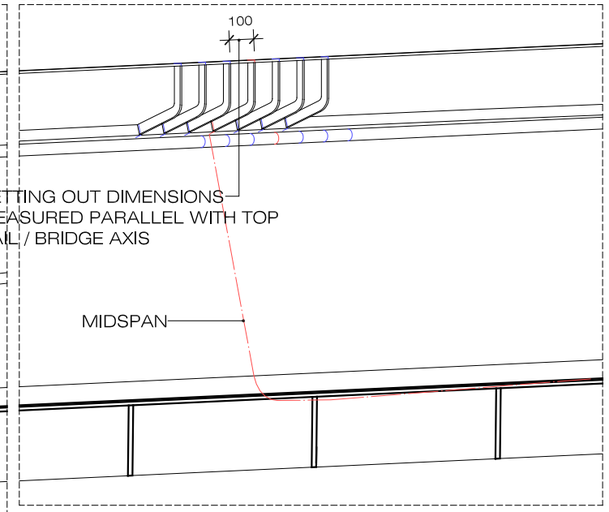
Moxon Architects Limited

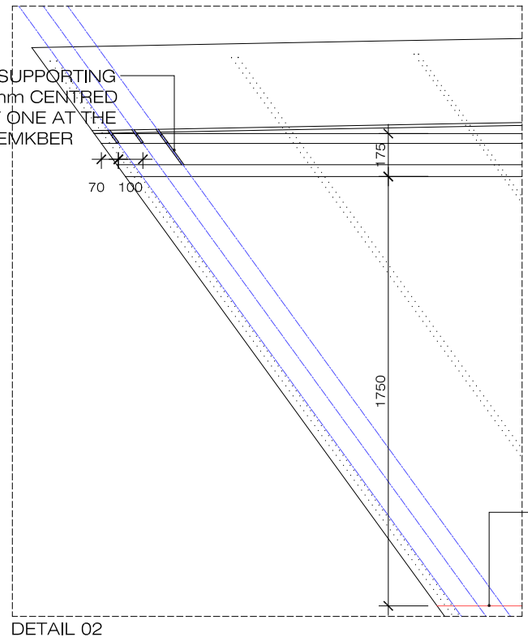
Do not scale from this drawing: work from figured dimensions only.

DETAIL 01
SCALE 1:25

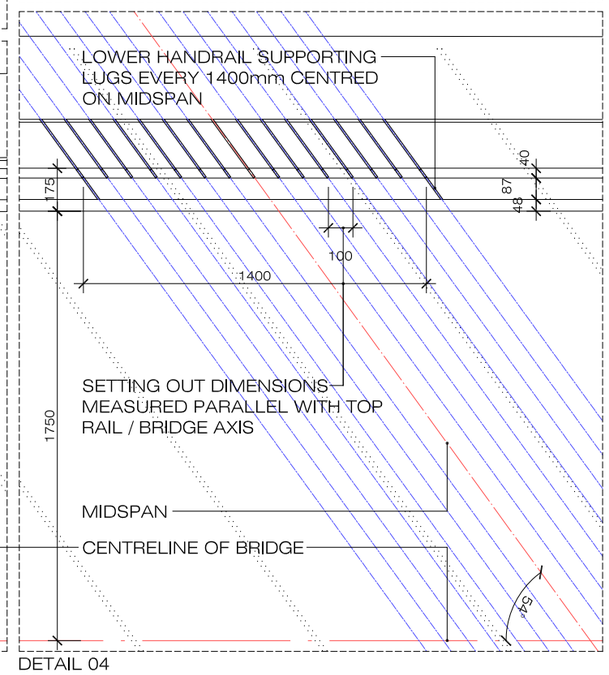


DETAIL 03
SCALE 1:25





DETAIL 02
SCALE 1:25



DETAIL 04
SCALE 1:25

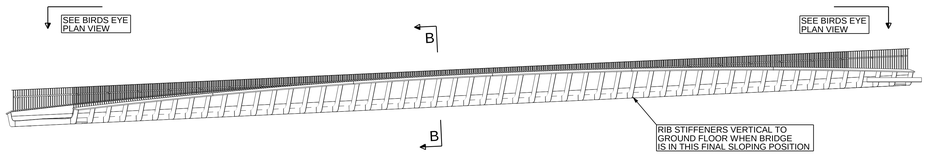
moxon

LONDON
Great Western Studios, 65 Alfred Road, London W2 5EU
t: 0207 034 0088 | f: 0207 034 0099

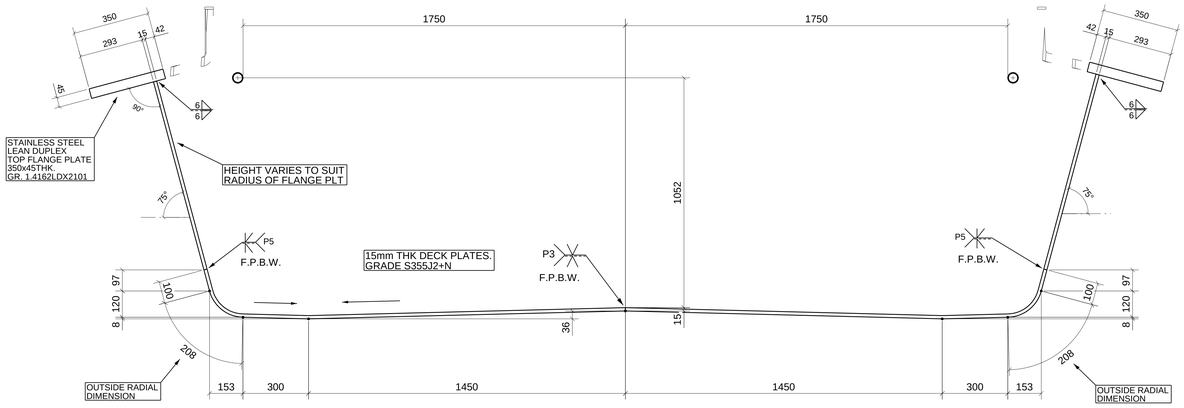
SCOTLAND
Ardoch, Crathie, Aberdeenshire AB35 5UN
m: 0774 061 9198

mail@moxonarchitects.com | www.moxonarchitects.com

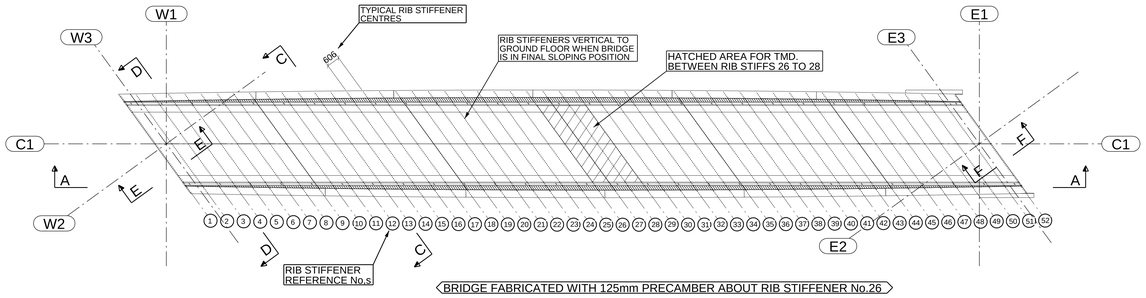
PROJECT TITLE	CAMLEY BRIDGE						
DRAWING TITLE	HANDRAIL SETTING OUT DETAILS						
DWG STATUS	FOR INFORMATION						
DRAWN	AH	FILE	545	DATE	28.04.16		
CHECKED	BMA	JOB NO.	545	SCALE	1:25, 1:10 @ A3		
DWG NO.	KX_MOX_A_BR3_3016_A						



SECTION A - A
ELEVATION ON BRIDGE

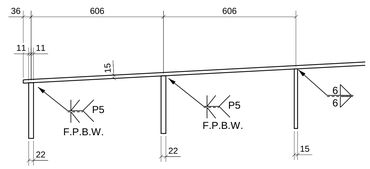


SECTION B - B
SECTION PERPENDICULAR TO BRIDGE SLOPE

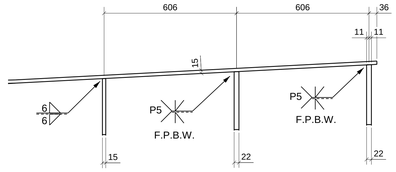


BRIDGE FABRICATED WITH 125mm PRECAMBER ABOUT RIB STIFFENER No.26

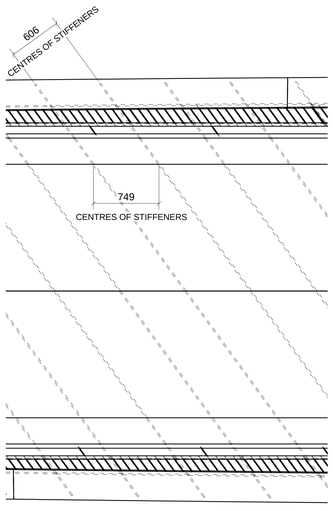
BIRDS EYE PLAN VIEW ON BRIDGE



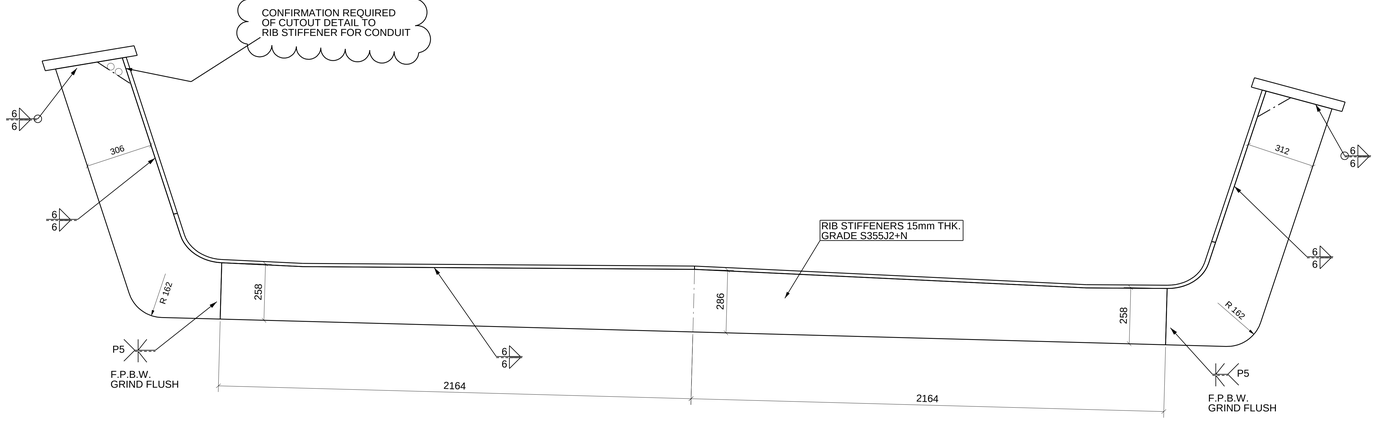
SECTION E - E



SECTION F - F

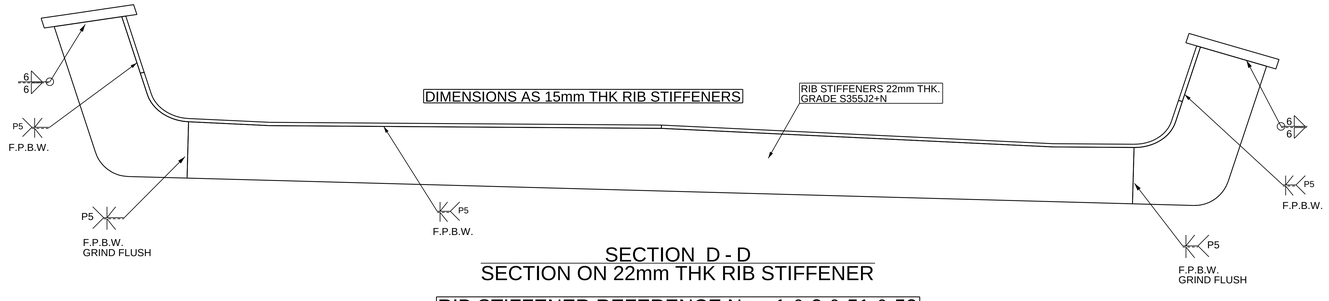


BIRDS EYE PLAN VIEW ON BRIDGE
SHOWING RIB STIFFENER CENTRES



SECTION C - C
SECTION ON 15mm THK RIB STIFFENER

RIB STIFFENER REFERENCE No,s 3 to 50



SECTION D - D
SECTION ON 22mm THK RIB STIFFENER

RIB STIFFENER REFERENCE No,s 1 & 2 & 51 & 52

GENERAL NOTES:

1. ALL ROLLED STEEL SECTIONS TO BE BS EN 10025
2. ALL HOLLOW SECTIONS TO BE TO BS EN 10210
3. ALL OPEN EDGES TO BE CONTINUOUSLY SEAL WELDED U.N.O
4. ALL NOTCHES TO HAVE CORNER RADIUS
5. ALL BURRS & SHARP EDGES ETC. TO BE REMOVED
6. ALL HOLES FOR HSFG BOLTS MUST BE DRILLED NOT PUNCHED
7. CONTACT FACES FOR HSFG CONNECTIONS TO BE FREE FROM PAINT, OIL & GREASE, LOOSE RUST, OR SCALE AND BURRS
8. ALL LENGTHS ON THIS DRAWING ARE DEAD LENGTHS , NO ALLOWANCE HAS BEEN MADE FOR WELD SHRINKAGE OR SECTION OVALITY
9. STRUCTURAL STEELWORK TO BE MANUFACTURED IN ACCORDANCE WITH THE CONTRACT SPEC.
10. U.N.O. ALL FILLET WELD SIZES REFER TO LEG LENGTH.
11. U.N.O. ALL PPBW ARE TO BE FULLY PREPPED WITH A MAXIMUM OF 3mm UNFUSED LANDING
12. ALL FPBW'S IN HOLLOW SECTIONS AND PLATED BOX GIRDERS ARE TO HAVE BACKING FLATS
13. U.N.O ALL STEELWORK COMPONENTS FABRICATED TO :- EXC3

Rev Mark	Revision Description	By	Revision Date
A	FIRST ISSUE FOR APPROVAL	KH	04.10.2016

shstructures limited
Moor Lane Trading Estate
Sherburn-in-Elmet
North Yorkshire. LS25 6ES
Tel: 01977 681931
Fax: 01977 681930
Email: mail@shstructures.com
Web: www.shstructures.com

CLIENT: Carillion

PROJECT: Camley Street Bridge

DRAWING TITLE: Bridge Arrangement Sections

DRAWN	KH	DATE	03-10-16	SCALE	1:100@A0
CHECKED		DATE			

DRAWING No: 4686 \ G3

REV.: A

CLIENT DRAWING No: KXC-SHS-BR3-4686-G3

APPENDIX 2 - CCTV MAST

LIGHT DUTY

The path to safe, easy long-life maintenance

When it comes to manufacturing and supplying base hinged columns, Abacus Lighting is the world leader.

Our base hinged column has a proven track record of being safe and easy to maintain over a long time period. It was developed in response to a demand from the railway industry for a 5m column that could be maintained without a ladder, and is now installed worldwide in a multitude of business sectors.

Multiple applications

Because of the range's many practical advantages, it can be installed across a broad sweep of business sectors.

Health & safety

Safe, easy maintenance of lighting points is a key consideration for many companies. And the Abacus base hinged column is the ideal solution for locations that are often difficult or impossible to reach by more traditional means.

Simplicity of use

Ease of use is a big benefit of the Abacus base hinged column; the spring counterbalance unit means the column can be lowered for maintenance in less than one minute, in total safety.

Simplicity of engineering

Thanks to their robust design and longevity, our base hinged columns can be installed in all types of locations exposed to public traffic that can be difficult to reach.

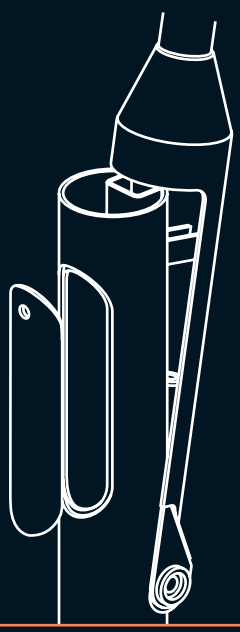
LIGHT DUTY BASE HINGED COLUMNS & THE RAILWAY

The base hinged column is now a standard on international railway platforms. Its popularity is all down to quick, safe and easy operation, together with long term durability, often in harsh environments.

Flush Door Innovation

There's the choice of a flush door in the base of light and medium duty columns, giving easy access to any equipment in the column.

The flush door enables a locking device in the base of the column; as a result, the standard locking screw on the side of the column is not required.



Aluminium Model

The light duty column is also available in aluminium, with a bead blasted finish for an attractive contemporary look. The aluminium model has the advantage of being both lightweight and durable and offers the same ease of use as the standard base hinged column.

For more information see page 10.

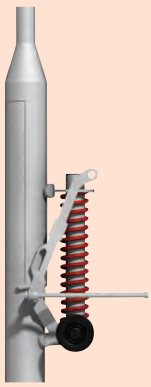
AMENITY LIGHTING APPLICATIONS

Ideally suited to often difficult access locations such as:

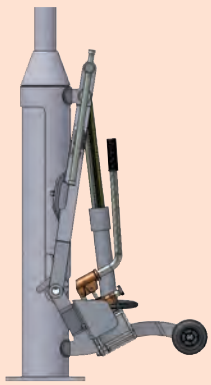
- Pathways
- Public parks
- Car parks
- Industrial areas

Counterbalance Units - RLS168 / RLH168

The column is lowered by means of a spring counterbalance unit, RLS168 (see right), available in a range of strengths based on column height and headload, or with a universal hydraulic unit, the RLH168 (see page 12 for full details).



RLS168



RLH168

To see the base hinged columns in operation visit our YouTube channel
www.youtube.com/AbacusLighting

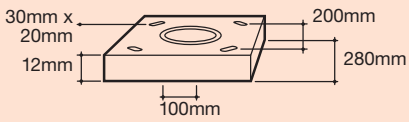
LIGHT DUTY

4-8M BASE HINGED COLUMN Patent No: 968113

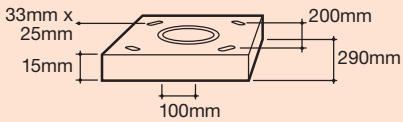
Designed to EN40. Hot dip galvanised to BS EN ISO 1461:2009. Manufactured in steel tube to EN10210

Flange Plate

Type 0 FA000G Bolts/cross brace M16 x 500mm
FC020 Template



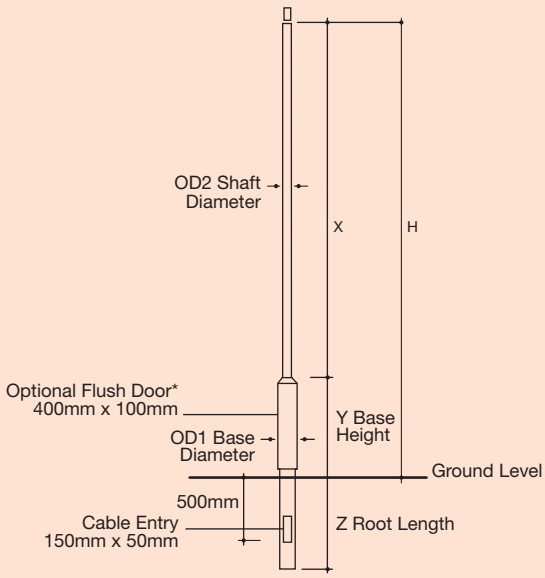
Type 1 FA001G Bolts/cross brace M20 x 500mm
FC021 Template



Accessories

XXSC003F	Tamper resistant locking screw
XXSC003F	Key for locking screw
ELSAB1/6A	Single fuse cut-out, 6A, loop in/out (not fitted)
ELSAB12/6A	Twin fuse cut-out, 6A, loop in/out (not fitted)

Column Dimensions



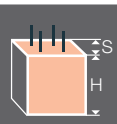
***Flush Door Option**
Flush door enables internal locking mechanism. Side fitted locking screw not required on this model. Add /FD suffix.

Root Mounted

Product Code	Height	OD1	OD2	x	y	z	Weight (kg)	OTM (kNm)	Shear (kN)	Min. Concrete Diameter*	Counterbalance Type & Max. Weight
	Dimensions (mm)										
T041RLS	4m	168	76	2875	1050	800	50	4.9	1.4	1389	**RLS168 - Yellow** 18kg **RLS168 - White** 28kg **RLS168 - Red** 38kg **RLS168 - Blue** 53kg **RLH168 -** 53kg
T051RLS	5m	168	76	3875	1050	800	59	4.7	1.2	569	**RLS168 - Yellow** 11kg **RLS168 - White** 19kg **RLS168 - Red** 28kg **RLS168 - Blue** 40kg **RLH168 -** 40kg
T061RLS	6m	168	76	4860	1050	1000	67	4.6	1.1	291	**RLS168 - White** 11kg **RLS168 - Red** 19kg **RLS168 - Blue** 29kg **RLH168 -** 29kg
T081RLS	8m	168	89	6830	1050	1200	87	5.3	1.2	198	**RLS168 - Blue** 11kg **RLS168 - Green** 17kg **RLH168 -** 17kg

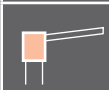
*Root concrete diameter based on poor soil or better, min. 230kN/m² per m

Flange Plate Mounted

Dimensions (mm) Product Code	 Height	 OD1	 OD2	 x	 y	 Flange Plate	 Weight (kg)	 OTM (kNm)	 Shear (kN)	 Concrete Dimension*	Counterbalance Type & Max. Weight
T041RLS /FP	4m	168	76	2875	1050	Type 0	47	4.9	1.4	750 x 800	**RLS168 - Yellow** 18kg **RLS168 - White** 28kg **RLS168 - Red** 38kg **RLS168 - Blue** 53kg **RLH168 -** 53kg
T051RLS /FP	5m	168	76	3875	1050	Type 0	52	4.7	1.2	750 x 800	**RLS168 - Yellow** 11kg **RLS168 - White** 19kg **RLS168 - Red** 28kg **RLS168 - Blue** 40kg **RLH168 -** 40kg
T061RLS /FP	6m	168	76	4860	1050	Type 0	57	4.6	1.1	750 x 800	**RLS168 - White** 11kg **RLS168 - Red** 19kg **RLS168 - Blue** 29kg **RLH168 -** 29kg
T081RLS /FP	8m	168	89	6830	1050	Type 1	72	5.3	1.2	750 x 900	**RLS168 - Blue** 11kg **RLS168 - Green** 17kg **RLH168 -** 17kg

*Concrete dimension based on a minimum ground bearing pressure of 150kN/m² (Passive concrete design). (S = square dimension, H = depth)

Outreach & Floodlight Brackets

Height	Projection Length	Outreach Brackets  Single (S)  Double (D)  Overlap Fit on Shaft  Flush Fit on Spigot		Spigot Lengths /SP 230mm /SP1 100mm Type/Bolt Centres (mm)	Floodlight Brackets  Overlap Fit on Shaft  Flush Fit on Spigot 	
4m		**T041RLS**	**T041RLS/SP+/SP1***		**T041RLS**	**T041RLS/SP**
	0.30m	PR2-03/S or /D	PR1-03/S or /D*	Single	FL1/1	FL0/1
	0.50m	PR2-05/S or /D	PR1-05/S or /D*	Double (600)	FL1/2	FL0/2
5m		**T051RLS**	**T051RLS/SP+/SP1***		**T051RLS**	**T051RLS/SP**
	0.30m	PR2-03/S or /D	PR1-03/S or /D*	Single	FL1/1	FL0/1
	0.50m	PR2-05/S or /D	PR1-05/S or /D*	Double (600)	FL1/2	FL0/2
6m		**T061RLS**	**T061RLS/SP+/SP1***		**T061RLS**	**T061RLS/SP**
	0.30m	PR2-03/S or /D	PR1-03/S or /D*	Single	FL1/1	FL0/1
	0.50m	PR2-05/S or /D	PR1-05/S or /D*	Double (800)	FL1/3	FL0/3
8m		**Post top lanterns only**			**T081RLS**	**T081RLS/SP**
				Single	FL2/1	FL1/1
				Double (800)	Post top floodlight only	

*Outreach brackets series PR1 & PR2 below 0.50m projection fit onto 100mm spigot (/SP1). 0.50m + on standard 230mm spigot (/SP). Please refer to pages 35-37.

Column Headload Capacity (m²)

Based on UK rationalised wind loading factors for EN40

Product Code	Lantern Mounting/ Projection	Max. Headload (kg)	Light 396	Medium 429	Heavy 466	Very Heavy 576
T041RLS	Post Top	53	1.161	1.062	0.969	0.763
	0.25m Single Outreach	15	0.305	0.279	0.254	0.2
	0.50m Single Outreach	10	0.225	0.206	0.187	0.145
T051RLS	Post Top	38	0.787	0.714	0.645	0.493
	0.25m Single Outreach	15	0.25	0.227	0.205	0.157
	0.50m Single Outreach	10	0.257	0.233	0.211	0.162
T061RLS	Post Top	28	0.543	0.485	0.43	0.312
	0.25m Single Outreach	10	0.204	0.183	0.163	0.12
	0.50m Single Outreach	10	0.147	0.131	0.116	0.083
T081RLS	Post Top	17	0.16	0.133	0.109	0.06
	0.25m Single Outreach	8	0.06	0.05	–	–

For complete information on foundation options please refer to www.abacuslighting.com/base-hinged-fixed-columns.asp

APPENDIX 3 - LIGHTING

Camley Street Bridge – BR3

Luminaire Schedule

	Description	Manufacturer / Product	Area	Photo
FOR HANDRAIL LIGHTING REFER TO SEPERATE DATA SHEET				
B	Bollard LED Luminaire – IP 54	TOPA 100	Camley Street Road entrance	

Notes:

1) All luminaires shall be equipped with high frequency dimmable DALI control gear compatible with lighting control system unless noted otherwise.

PictorLED

PictorLED - Crafted Handrail Lighting System

A beautiful 316 marine grade stainless steel illuminated handrail solution for the modern urban environment

- Key Attributes -

PictorLED

- Marine Grade Alluminium Construction
- AA25 Anodized Finish
- Range of colour finishes
- Extruded Polycarbonate Lens Cover
- Colour Temperature: 3000K, 4000K, 5000K, RGBW and RGBWe (includes Emergency Element)
- Dimmable via 1-10, Dali, DMX or TE
- Proximity activation
- Light sensor control
- Unique Galvanic Isolation Design

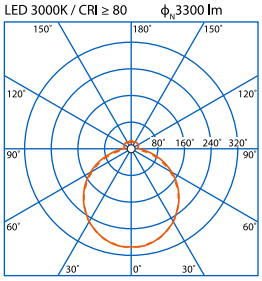
PictorRAIL

- Modular Simple Installation
- Fully Bespoke Options
- Marine Grade 316 Stainless Steel Construction
- GRP Moulded Option
- Warm To Touch finish, Galvanized Steel Tube Option
- With or Without LED
- Wide Variety of Fixing Solutions

PRODUCT: Pictor 4 Handrail Luminaire

Version	Pictor 4 DDA4Z	Voltage of luminaire	24VDC +/-10%
IP Raiting	67	Luminaire power (Watts)	3.8
LED Type	Osram 5630	Array	Linear series
Efficancy	79Lm/Watt	Operating Temperature	-20 to +35 centigrade
Mechanical	160 x 30 x 25mm	Shipping weight	600 grammes

LED 3000K / CRI ≥ 80 ϕ_n 3300 lm $\phi_\downarrow$ 88% $\phi_\uparrow$ 12%



Luminance values (cd/m²)

	C 0/180	C 90/270
L80	1756	2070
L70	2283	2898
L65	2491	3110
UGR	19.5	19.4

X 4H Y 8H p70/50/20 S 0.25H

Photometric Report

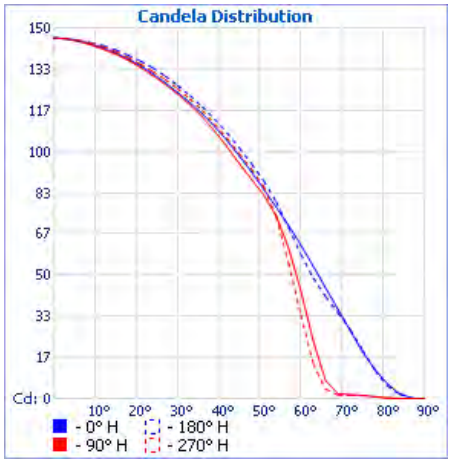


Figure 3: Far-Field Luminous intensity (CO-180, Cartesion Coordinates)

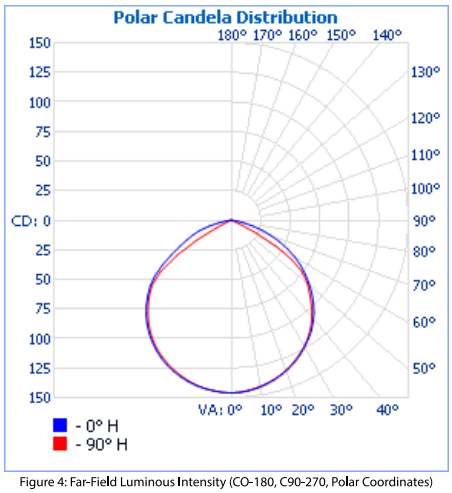


Figure 4: Far-Field Luminous Intensity (CO-180, C90-270, Polar Coordinates)

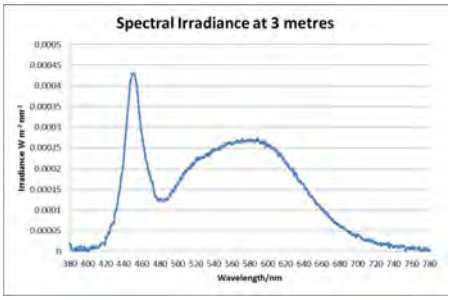


Figure 1: Spectral irradiance

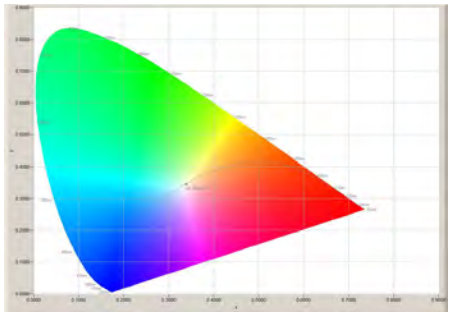


Figure 2: CIE 1931 diagram

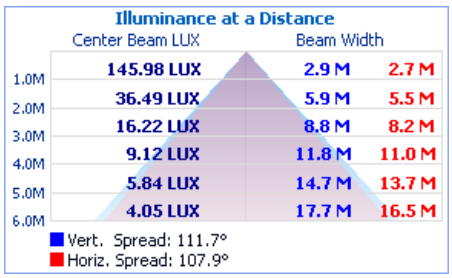


Figure 5: Cone diagram for mounting height of 6 metres

Photometic and Optical Testing Services Report POTS/DC15133

SELV IP67

LTP Integration & Products
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APPENDIX 4 - GABION

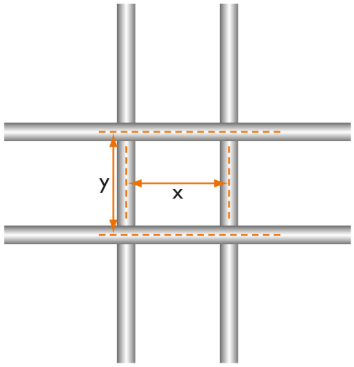
ENVIROMESH®

Garner Street Business Park • Etruria • Stoke-on-Trent • Staffordshire ST4 7BH

Tel: +44 (0) 845 136 0101 • **Fax: +44 (0)845 136 0202** • **Online: www.enviromeshgabions.co.uk**

Gabion Design Specification : Bi-Axial Welded Mesh

GABION ENV-P38 (Polymer Powder Coated Grey)



SPECIFIED MESH BI-AXIAL WELDED

Nominal dimensions (x) and (y) : Gabions, 75mm Mattresses, 75mm

Gabions are to be manufactured and / or supplied by:

Enviromesh, Garner Street Business Park, Etruria, Stoke-on-Trent, Staffordshire, ST4 7BH.

Telephone +44 (0)845 136 0101 Fax +44 (0)845 136 0202 Email: enquiries@enviromeshgabions.co.uk Online: www.enviromeshgabions.co.uk

The certification, materials, manufacture, assembly and installation of the above-mentioned product shall comply with all of the following criteria:

Certification

1. All gabion materials and accessories must be certified in accordance with **British Board of Agrément (BBA)** certificate no. 05/4215. This is for current General Building Regulations.

2. All gabion products are manufactured in accordance with the requirements of BS EN 10223-8:2013 where the gabions are considered to have a life expectancy **of 120 years**.

3. Evidence of current BBA certification and relevant certificates of conformity with respect to wire strength, weld strength and coating weights used in the manufacture of the mesh fabric and wire products are to be issued upon request.

Materials

The wire used in the manufacture of the gabions and installation accessories shall comply with the following:

Mesh Fabric

The mesh fabric shall be formed by electrically welding at each and every intersection, hard drawn steel line and cross wires into a dimensionally stable bi-axial square metric mesh of size **75mm x 75mm**.

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The weld strength shall be **75%** of the minimum ultimate tensile strength of the wire.

The nominal wire diameter for the mesh fabric shall be **3.80mm** for the base, front, rear, end, diaphragm panels and lid, all within the tolerances specified in BS EN 10218-2:2012 and shall have a tensile strength that falls within a range of **540-770 N/mm^2**.

Lacing Wire
The lacing wire used for site assembly shall be of a nominal **2.2mm** wire diameter in accordance with BS EN 10218-2:2012 and shall have a tensile strength that falls within a range of **350 to 550 N/mm^2**.

Corrosion Resistance
All wire used in the mesh fabric or accessories shall be Zinc coated in accordance with BS EN 10244-2:2009 (Class A). An additional nominal thickness is applied of **0.25mm** organic polymer powder coating (grey) for the mesh fabric and a nominal **0.5mm** organic polymer powder coating (grey) for the lacing wire. This coating being in accordance with BS EN 10245-1:2011 and BS EN 10245-2:2011

Manufacture

Unit Formation
The gabion is to be formed from mesh panels such that the front, rear, ends and diaphragm panels are connected to the base panel with either **Stainless Steel CL35 clips** or **Stainless Steel CL50 'C' rings** at a maximum spacing of 225mm for all joints. This process must be undertaken in a factory-controlled environment. The lid may be supplied loose or fixed in the same manner to the rear or face panel. Diaphragm (partitioning panels) spacings should not exceed 1.050m on units oriented as stretchers and 1.65m oriented as headers.

Should units be required to be prefilled and lifted as opposed to filling in situ, additional clips, rings and mesh panels may be required. In such circumstances the manufacturer must be consulted prior to supply to ensure product is suitable for application.

Gabion Sizes
It should be noted that it is industry standard for gabions to be quoted as overall nominal sizes. The actual gabion sizing is dependant upon the physical mesh configuration.

Clarification should always be sought from the manufacturer in relation to gabion sizing.

Designation of sizes **length x width x height**

Gabion standard unit lengths: 975mm or 2025mm
Gabion standard unit widths: 450mm, 675mm, 975mm, 1350mm, 1500mm or 1650mm
Gabion standard unit heights: 300mm, 450mm or 975mm

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Non-standard sizes available in multiples of 75mm on request.

Assembly and Installation

Note Please also refer to manufacturer's installation instructions, which are available upon request in either electronic or hard copy format.

Jointing

Gabions are supplied with lacing wire as standard for horizontal and vertical jointing of adjacent units whilst empty. Lacing is to be continuous along all joints using alternate single and double loops at a maximum spacing of 100mm ensuring that it forms a tight joint. Start or termination of lacing is formed by three turns ensuring the free end is turned into the unit.

If CL50 'C' rings are to be used for final jointing as an alternative to lacing then these must be installed at every other mesh opening to achieve the required joint strength.

Internal Bracing

Internal bracing is formed by creating a continuous windlass tie between the face and rear of the exposed cells within the structure.

For 1m high units, two internal windlass bracings are required at third widths and at each third height of the gabion.

In all cases the windlass tie is to span two or three mesh openings on the front and rear cells to spread the load. The exposed end gabions to the wall should also be braced in both directions to prevent end face deformation.

The same is required to the rear cell of each course (rear panel to side panels).

Geotextile Separators

Where a geotextile separator between the rear of the gabion and backfill is to be used, refer to the engineer's design proposal and specification.

Foundations

Reference to the engineer's design proposal must be made with respect to foundation requirement, wall inclination, face configuration (stepped, flush or combination thereof), drainage and backfilling requirements. Any soft areas in the sub grade should be excavated and replaced with a granular material to the engineer's requirements.

Filling

Units are to be filled with a hard, durable, non-frost susceptible rock, stone or clean crushed concrete as specified by design. The grading of the fill is to be 100 to 150mm or 100 to 200mm (6G). Where dual fills of the same grading are specified a separation panel is optional. Where the secondary fill grading is less than the mesh aperture size, it is necessary for the fills to be separated using pre-cut correx panels or geo-textile that is

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inserted into the gabion on site. If this is the case then this will require the fitting of an additional longitudinal diaphragm set back from the face. In such instances it is important to refer to the engineer's design proposal with respect to additional drainage that may be required. It is also important to note that cohesive fills are not to be used as a secondary fill within gabions.

The units shall be filled in layers not exceeding 340mm, if large voids are present then the stone must be re-orientated to minimise voids. Where specified the gabions are to have a hand placed front face.

The units shall be filled such that the mesh lid bears down onto the gabion filling material. It may be beneficial to blind the top of the filled unit with a 20 to 50mm aggregate.

Filling should be staged so that no adjacent cells have more than a half difference in the level of filling for units of greater height than 500mm.

To assist in maintaining face alignment and reduce deformation, the use of external formwork i.e. timber or scaffold tubes can be tied onto the external face of the structure at third heights and then removed upon completion.