

SUPRABLOC

LOW FREQUENCY ACCESS WITH
MULTIPLE OPERATIVES OR MECHANICAL ASSISTANCE

CPA8 MULTIPLE LEAF

All Suprabloc units are post galvanised in excess of BS EN 1461. Post Galvanised coating thickness is available in 3 grades of finish to suit the specific project geographical location. Suprabloc units should be designed to cater for their intended application and should last the life of the project.

See chart on page 21 for the various grades of corrosion protection required to meet the designers obligations on Whole Life Costing for the project.



DDA Compliant Lifting points.
'Lift out operation.'

Varying tray depths

Inwardly tapered tray side to prevent jamming.

Full flange for stability in service

6mm thick steel cover for minimal deflection and ease of removal.

6mm thick steel frame for increased impact resistance.



Compliant products



GA galvanizers association



Jones of Oswestry provides RIBA approved CPD support for designers and architects in the subject of true sustainable design.

For further details email marketingsupport@jonesofoswestry.com




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SUPRABLOC

CPA8 MULTIPLE LEAF

LOAD CLASSES, BS EN 124

EUROPEAN STANDARD FOR ACCESS COVERS

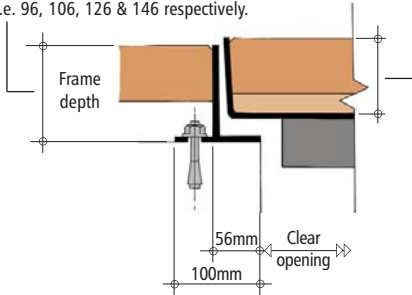
LOAD CLASSES	TEST LOAD	SUGGESTED AREAS OF USAGE	SPECIFYING CODE
 A15	15kN (1.5 Tonne)	Pedestrian and Cycle Areas	/A
		Recommended S.M.W.L. Not exceeding 1 Tonne	
 B125	125kN (12.5 Tonne)	Pavement, Pedestrian Zones, Car Parks & Verges	/B
		Recommended S.M.W.L. Not exceeding 6 Tonne	
 C250	250kN (25 Tonne)	Slow moving occasionally trafficked areas i.e Service Roads, Vehicular Access Areas, Parking Areas etc.	/C
		Recommended S.M.W.L. Not exceeding 11.5 Tonne	
D400	400kN	Contact our technical support team for advice on exceptionally heavy vehicled areas.	/SD
E600	600kN		/SE
F900	900kN		/SF

ALTHOUGH NOT COMPLYING WITH BS EN 124, OTHER INTERMEDIATE LOAD CLASSES ARE AVAILABLE, CONSULT OUR TECHNICAL DEPARTMENT

SECTIONAL DETAILS

Frame depths are manufactured for 50/65/80 and 100mm block depths.

i.e. 96, 106, 126 & 146 respectively.



Internal tray depths are manufactured at 75, 85, 105 & 125 respectively.

(plain seated illustrated)

ACCESSORY SUFFIXES

To specify add the following suffixes to the professional specification code

- A1R - Single Rubber Seating Seal
- A2R - Double Rubber Seating Seal
- A3 - Unsealed / Plain Seated
- A4 - Ventilated
- B4 - Locking Down Bolts
- B8 - Pinhead Security Locking Bolts
- E1 - Stainless Steel Edge Trim
- E2 - Brass Edge Trim
- G1 - Large BS Lifting Points
- G2 - Threaded Lifting Points
- H1 - Service Identification (please specify)
- K1 - Solid Top Peep in (please specify position)
- K2 - Recessed Peep in (please specify position)
- N5 - Expanded Metal Mesh in Base of Tray
- X - Grade 304 Stainless Steel Construction
- Y - Grade 316 Stainless Steel Construction

DIMENSIONS

Installation dimensions, based around chamber clear openings are as shown. Although example clear opening sizes are tabulated, SUPRABLOC is available in any size to suit specific project requirements. Tray depths vary with the thickness of the slab or pavior. Generally tray depths are as tabulated and cater for all infill scenarios.

SUPRABLOC

CPA8 BEAM DETAILS

GENERAL TECHNICAL DETAIL, COMPOSITION AND MANUFACTURE

STANDARD PRODUCT FEATURES

- Beams are removable unless stated otherwise
- Hot dip galvanised in-house as standard
- Beams have lifting points to each end for safe mechanical removal
- Sealing bars are integral part of beam, on sealed covers

MATERIALS

All removable beams are hot rolled structural steel universal beams to BS EN 10025/S275, hot dip galvanised after manufacture to BS EN ISO 1461 as standard.

Each removable beam is selected for its loading, and its length cut to suit the clear opening span. It is fully supported at each end by brackets as detailed on pages 19 & 20.

TECHNICAL DETAILS

Multiple leaf access cover and frame units can be manufactured to suit any required internal clear opening size and to accept loadings in accordance with BS EN 124 classes A15, B125 and C250. The use of removable support beams allows us to sub-divide the assembly into manageable sections for ease of removal and entry, whether by a single

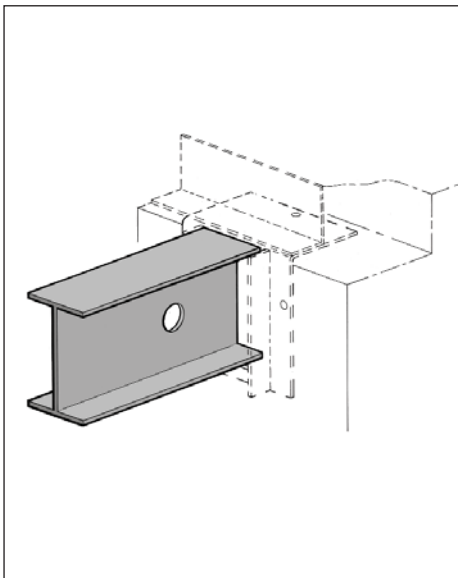
operative or by mechanical means. Asymmetric units can also be designed for situations where in situ plant or machinery precludes the use of a standard assembly.

A full Technical Advisory Service is always available to make recommendations based on our wide experience in this specialised field.

If a complicated access chamber pit layout is required a fully dimensional plan/section detail should be supplied. Individual working, site layout, drawings are provided for multiple leaf covers requiring support beams upon receipt of order.

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BEAM SIZE DETAILS FOR MULTIPLE LEAF ASSEMBLIES



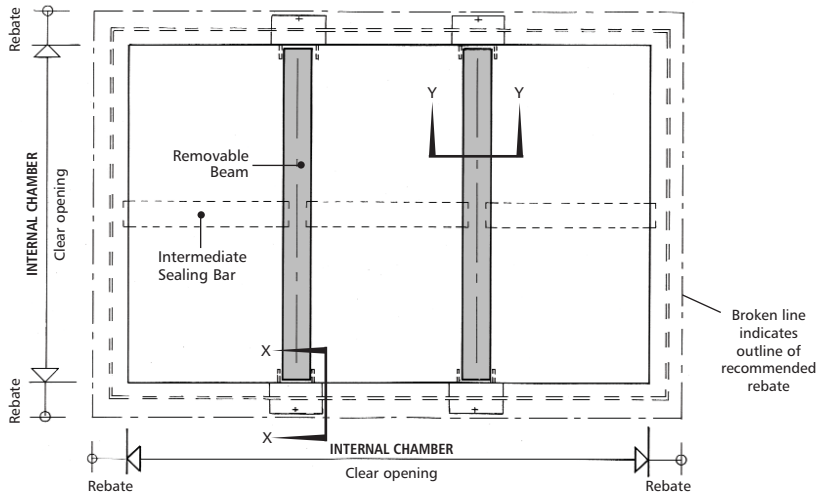
BEAM SIZE IDENTIFICATION (for beam sizes refer to chart over leaf)

CLEAR OPENING SPAN	A15	B125	C250
651-900	-	*	*
901-1200	-	*	B
1201-1500	*	A	B
1501-2000	A	B	B
2001-2500	A	B	C
2501-3000	A	C	D
3001 →	contact our Technical Department		

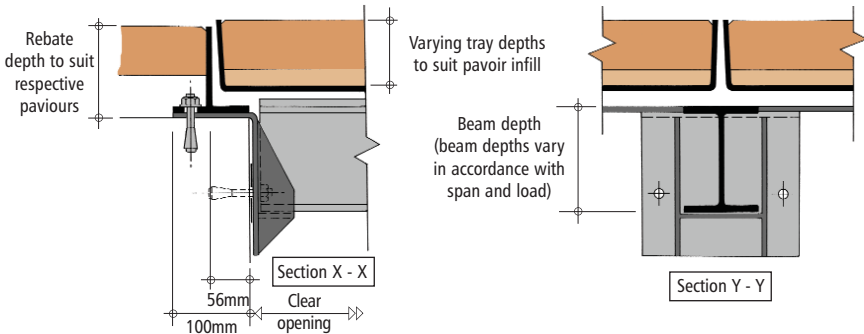
* support attached to cover max 200 deep from floor level

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CPA8 BEAM DETAILS



Note: On sealed covers - intermediate sealing bars are fitted.



Note: Beams can span either short dimension or long dimension depending on operational requirement.

BEAM SIZE	UNIVERSAL BEAM SIZE (mm)
A	152 x 89 x 16 Kg/m
B	203 x 133 x 30 Kg/m
C	254 x 146 x 43 Kg/m
D	305 x 127 x 48 Kg/m

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CPA8 BEAM BRACKET DETAILS

GENERAL TECHNICAL DETAIL, COMPOSITION AND MANUFACTURE

STANDARD PRODUCT FEATURES

All brackets are fabricated from structural steel plate and hot dip galvanised after manufacture to BS EN ISO 1461 as standard.

BRACKET DESIGN

The brackets have been designed to suit standard beams A to D shown on page 18. They have been designed and tested to suit worst case scenarios. All brackets are welded to form an integral part of the frame.

Brackets have a 5mm clearance from chamber clear opening to allow for concrete deviation. Any space between

bracket and chamber wall must be shim-packed before tightening anchor bolts.

SLAB DESIGN

The following bracket design loads are shown to assist with slab design.

Maximum considered vertical loads through beam carrier brackets on multiple units:-

- Note: A Class Load Considered = 10Kn
- B Class Load Considered = 75Kn
- C Class Load Considered = 115Kn

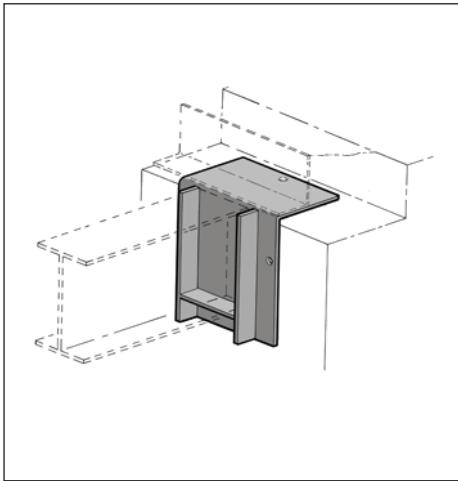
Twin Wheel Load is considered for spans of 2000mm and above

Live load factor of safety = 1.6 is used. (i.e. included in figures below)

SPECIAL BRACKETS

Special brackets can be designed and manufactured to suit site and/or design requirements such as: brick chambers, steel reinforcement position, restricted slab thickness or special beam requirement.

BEAM BRACKET DETAILS FOR MULTIPLE LEAF ASSEMBLIES



MAXIMUM BRACKET LOAD

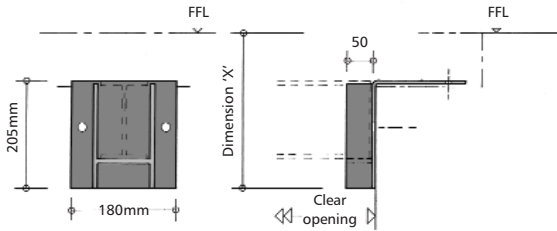
BEAM SIZE AND CORRESPONDING BRACKET	A15	B125	C250
152 x 89 x 16 Beam Bracket No.1	184kn	184kn	N/A
203 x 133 x 30 Beam Bracket No.2	N/A	184kn	276kn
254 x 146 x 43 Beam Bracket No.3	N/A	184kn	276kn
305 x 127 x 48 Beam Bracket No.4	N/A	N/A	276kn

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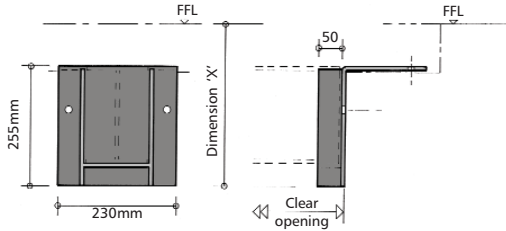
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CPA8 BEAM BRACKET DETAILS

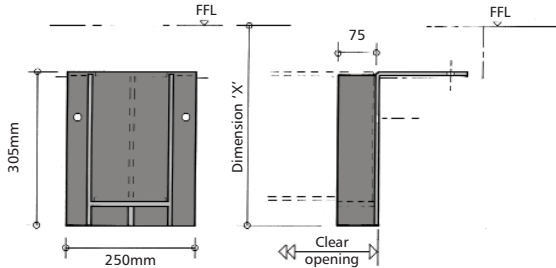
BEAM BRACKET NO. 1



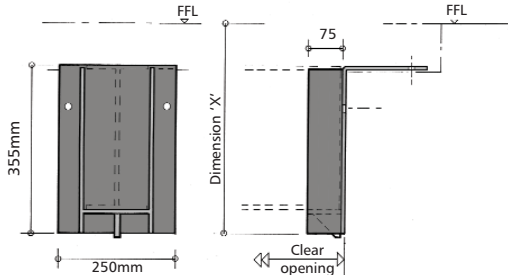
BEAM BRACKET NO. 2



BEAM BRACKET NO. 3



BEAM BRACKET NO. 4



Please contact our technical department for clarification of dimension 'X'.

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FINISHES

How to use the Longevity Table

1. Locate your site on the Millennium map (E.g. Leeds - West Yorkshire)
2. Match the corrosion category square colour to the key (Leeds = 3 light blue)
3. Read down from Product Design Life to establish required minimum life i.e. 25 years.
4. Once minimum Product Design Life has been established, (20,25 or 30 years) cross reference with your site location category (1,2,3,4 or 5) to determine your required Duragalv finish. (Duragalv 100)
5. At the end of the specifying code Duragalv 100 needs to be added.

Coating suffix specifying codes:

- Duragalv70 = DG70
- Duragalv100 = DG100
- Duragalv140 = DG140

Fabricated mild steel products, Hot-Dip Galvanised after manufacture = GALVANISED LONGEVITY TABLE					
Rate of corrosion of zinc (in microns per annum).	2.5	3	3.5	4	4.5
See Millennium Map for your site location or visit www.hdg.org.uk/map/index.htm	1	2	3	4	5
PRODUCT DESIGN LIFE					
20 YEARS Generally less than the normal minimum design life for product in public domain - UNACCEPTABLE WHOLE LIFE COSTING RETURN PERIOD	DURA GALV 70	DURA GALV 70	DURA GALV 70	DURA GALV 100	DURA GALV 100
25 YEARS Normal minimum design life for product in public domain - ACCEPTABLE WHOLE LIFE COSTING RETURN PERIOD	DURA GALV 70	DURA GALV 100	DURA GALV 100	DURA GALV 100	DURA GALV 140
30 YEARS Enhanced design life for product in public domain - PREFERRED WHOLE LIFE COSTING RETURN PERIOD	DURA GALV 100	DURA GALV 100	DURA GALV 140	DURA GALV 140	DURA GALV 140

Jones of Oswestry provide an extensive on-line support service. Simply attach your drawings or list your queries to techadvice@jonesofoswestry.com and one of our engineers will guide you to the most suitable solution.

HOW TO SPECIFY

PROGRESSIONAL EXAMPLE FOR SPECIFYING						
Ref DESCRIPTION	PRODUCT TYPE	CLEAR OPENING	LOAD CLASS	INTERNAL DEPTH OF TRAY	ACCESSORY SUFFIX	FINISHED COATING
DETAIL	(SUPRABLOC MULTIPLE)	(1750mm x 1250mm)	(B125)	(85mm)	(DOUBLE SEAL)	(SEE LONGEVITY TABLE)
PRODUCT Ref	CPA8	175-125	B	85	A2R	DG100
THE ABOVE EQUALS FULL SPECIFYING CODE OF = CPA8/175-125/B/85/A2R/DG100						

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