

# 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](mailto:marketingsupport@jonesofoswestry.com)

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# SUPRABLOC

## CPA8 MULTIPLE LEAF

### GENERAL TECHNICAL DETAIL, COMPOSITION AND MANUFACTURE

#### APPLICATION

External paved areas where:-

- Aesthetic finish is important
- Public domain therefore anti slip and anti trip measures important
- DDA compliance is a design minimum
- Single person lift not required.

#### MECHANICS, PERFORMANCE

In order to ensure the covers continue to perform for their design life all Jones SUPRABLOC covers are tested to BS EN 124 load classifications as listed on pg 16.

Further design considerations include deflection under actual live loading to protect finishes from damage in service.

Damaged or proud infill constitutes the most common complaint by the general public and constitutes a large part of injury claims on local authorities from slip and trip.

#### COMPOSITION AND MANUFACTURE

Covers are fully welded fabrications using a minimum of 6mm thick structural steel plate.

Access covers are tapered inward at their base to ensure adequate clearance for removal in service. Lifting points are integral to each corner of access covers and include a fully welded, robust finish to cater for the filled weight of recessed access covers in service.

Underside of cover trays include heavy duty bracing to support the relevant load classification with reduced deflections when subject to live loading. Frame units include heavy duty 'T' section format around all sides of the unit. Pierced anchor points together with a full width seating ensures that any load is transmitted back to supports with less risk of localised failure in the bedding material.

### CLEAR OPENING SIZES CHART

	1000																	
1000	100-100	1250																
1250	125-100	125-125	1500															
1500	150-100	150-125	1750															
1750	175-100	175-125	175-150	175-175					2000									
2000	200-100	200-125	200-150	200-175	200-200		2250											
2250	225-100	225-125	225-150	225-175	225-200	225-225	2500											
2500	250-100	250-125	250-150	250-175	250-200	250-225	250-250	2750										
2750	275-100	275-125	275-150	275-175	275-200	275-225	275-250	275-275	3000									
3000	300-100	300-125	300-150	300-175	300-200	300-225	300-250	300-275	300-300	3250								
3250	325-100	325-125	325-150	325-175	325-200	325-225	325-250	325-275	325-300	325-325	3500							
3500	350-100	350-125	350-150	350-175	350-200	350-225	350-250	350-275	350-300	350-325	350-350	3750						
3750	375-100	375-125	375-150	375-175	375-200	375-225	375-250	375-275	375-300	375-325	375-350	375-375	4000					
4000	400-100	400-125	400-150	400-175	400-200	400-225	400-250	400-275	400-300	400-325	400-350	400-375	400-400	4250				
4250	425-100	425-125	425-150	425-175	425-200	425-225	425-250	425-275	425-300	425-325	425-350	425-375	425-400	425-425	4500			
4500	450-100	450-125	450-150	450-175	450-200	450-225	450-250	450-275	450-300	450-325	450-350	450-375	450-400	450-425	450-450			
4750	475-100	475-125	475-150	475-175	475-200	475-225	475-250	475-275	475-300	475-325	475-350	475-375	475-400	475-425	475-450			
5000	500-100	500-125	500-150	500-175	500-200	500-225	500-250	500-275	500-300	500-325	500-350	500-375	500-400	500-425	500-450			

#### USING THE CHART

Always take the **largest clear opening dimension first** - from the column of sizes on the left of the chart. The second smaller dimension, is related to the sizes running diagonally down the right hand of the chart. Where the two columns meet, that box is the specifying code, i.e. 1750 x 1250 = 175-125 specifying code.

#### ALTERNATIVE SIZES

The chart provides the specifier with numerous clear opening combinations. However it only represents clear opening sizes 250 mm increments, **any clear opening size is available, as STANDARD in 10mm increments**, and can be specified by deleting the last digit of the size, i.e. 1762 x 1262 mm becomes a 176-126 specifying code.

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JONES  
OF OSWESTRY




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# SUPRABLOC

## CPA8 MULTIPLE LEAF

### LOAD CLASSES, BS EN 124

#### EUROPEAN STANDARD FOR ACCESS COVERS

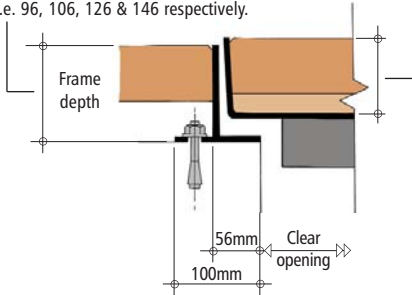
LOAD CLASSES	TEST LOAD	SUGGESTED AREAS OF USAGE	SPECIFYING CODE
	15kN (1.5 Tonne)	Pedestrian and Cycle Areas	/A
		Recommended S.M.W.L. Not exceeding 1 Tonne	
	125kN (12.5 Tonne)	Pavement, Pedestrian Zones, Car Parks & Verges	/B
		Recommended S.M.W.L. Not exceeding 6 Tonne	
	250kN (25 Tonne)	Slow moving 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)

### 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.

### 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

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# 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

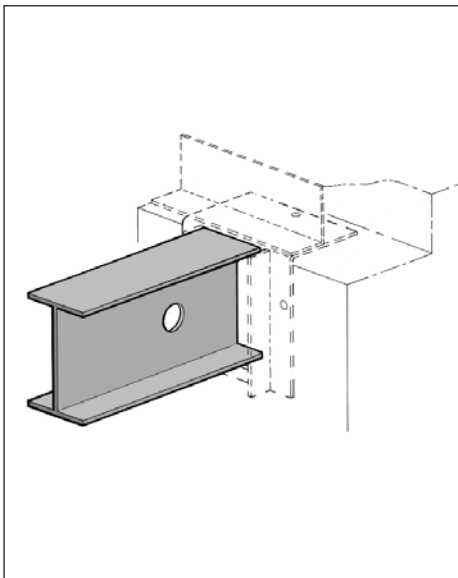
operative or by mechanical means. Asymmetric units can also be designed for situations where in situ plant or machinery precludes the use of a standard assembly.

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



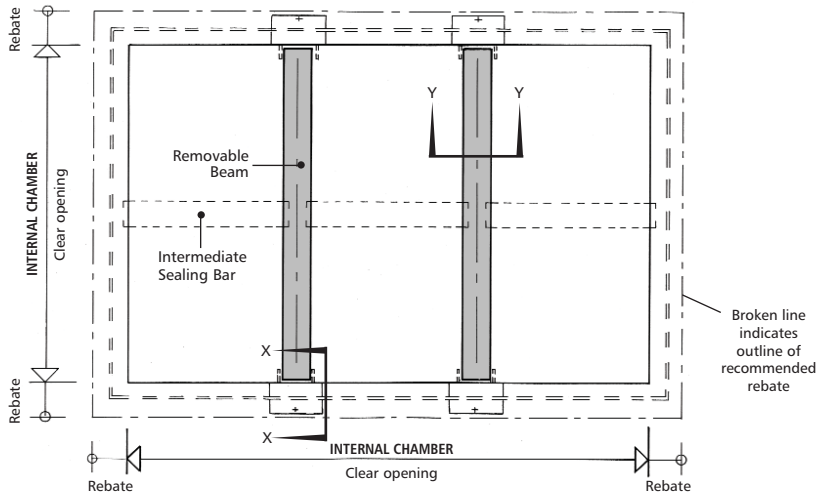
#### BEAM SIZE IDENTIFICATION (for beam sizes refer to chart over leaf)

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		

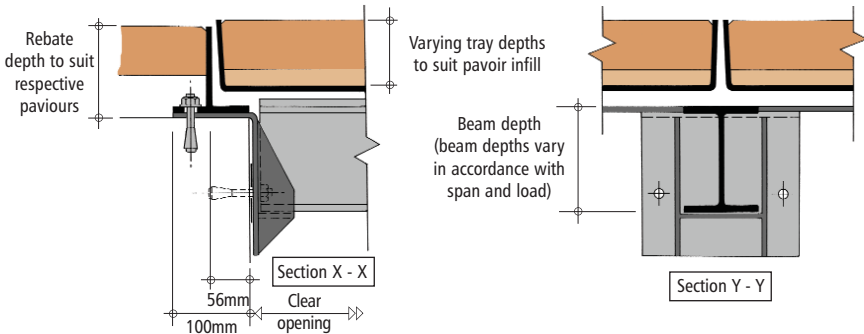
\* support attached to cover max 200 deep from floor level

# SUPRABLOC

## 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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# SUPRABLOC

## 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

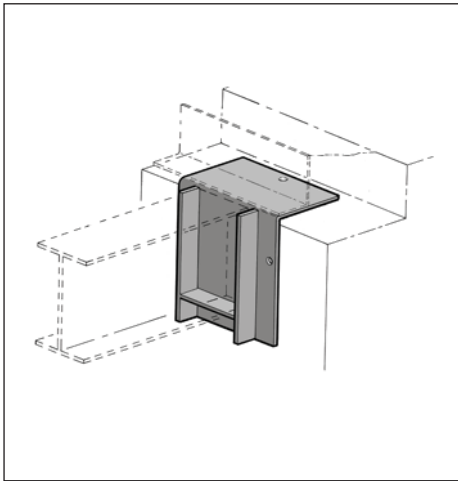
Twin Wheel Load is considered for spans of 2000mm and above

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

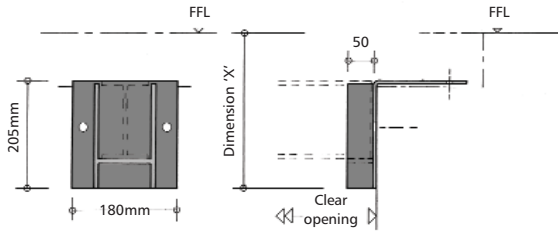
BEAM SIZE AND CORRESPONDING BRACKET	A15 	B125 	C250 
152 x 89 x 16 Beam Bracket No.1	184kn	184kn	N/A
203 x 133 x 30 Beam Bracket No.2	N/A	184kn	276kn
254 x 146 x 43 Beam Bracket No.3	N/A	184kn	276kn
305 x 127 x 48 Beam Bracket No.4	N/A	N/A	276kn

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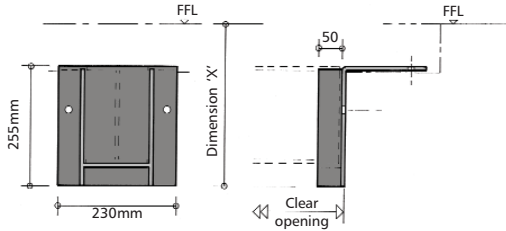
# SUPRABLOC

## CPA8 BEAM BRACKET DETAILS

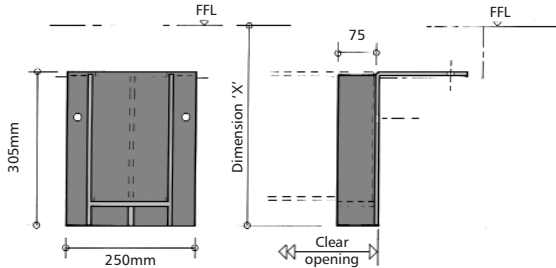
**BEAM BRACKET NO. 1**



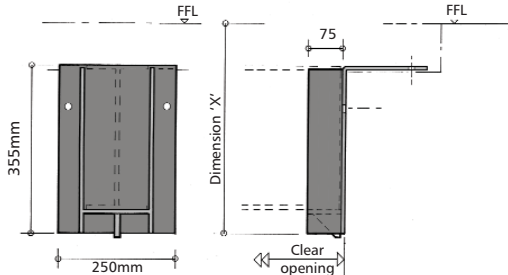
**BEAM BRACKET NO. 2**



**BEAM BRACKET NO. 3**



**BEAM BRACKET NO. 4**



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

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## CPA8 MULTIPLE LEAF

### 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 <a href="http://www.hdg.org.uk/map/index.htm">www.hdg.org.uk/map/index.htm</a>	1	2	3	4	5
PRODUCT DESIGN LIFE					
<b>20 YEARS</b> 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
<b>25 YEARS</b> 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
<b>30 YEARS</b> 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](mailto: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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