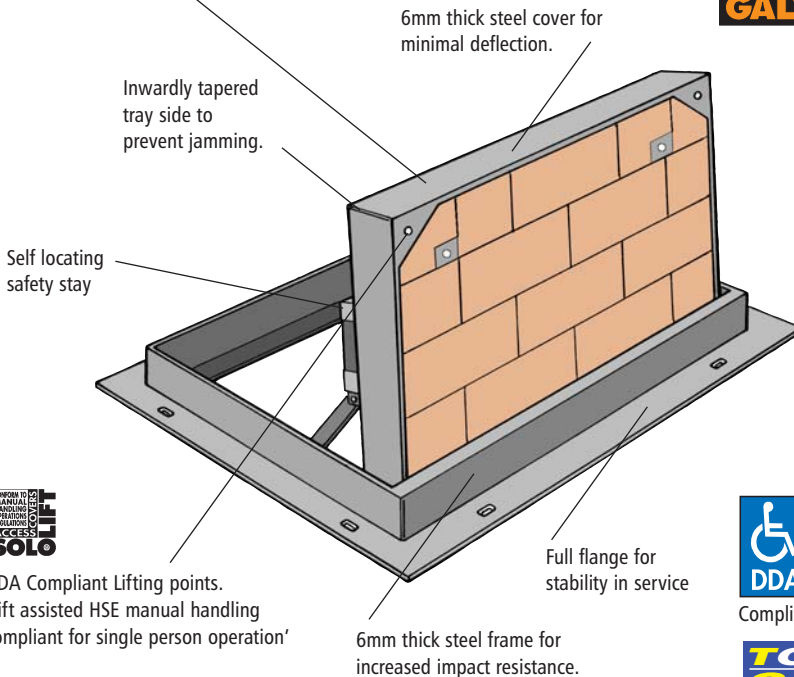


# SOLOBLOC

HINGED 'LIFT ASSISTED,  
SINGLE PERSON OPERATION' HSE COMPLIANT

## CPHI SINGLE LEAF

All Solobloc 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. Solobloc units should be designed to cater for their intended application and should last the life of the project. See chart on page 61 for the various grades of corrosion protection required to meet the designers obligations on Whole Life Costing for the project.



Compliant products



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)

ALL TECHNICAL DETAILS ARE COPYRIGHT, AND MUST NOT BE REPRODUCED WITHOUT PRIOR CONSENT

### 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
  - Frequent access to chamber beneath by a single person is required.

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.

All individual hinged covers include a minimum of 2 turncatch lock and lift mechanisms for safe, convenient use and to ensure a flush finish when closed.

#### COMPOSITION AND MANUFACTURE

Covers are fully welded fabrications using a minimum of 6mm thick structural steel plate. Access covers are hinged and torsion spring assisted to allow single person access in line with HSE manual handling guidelines.

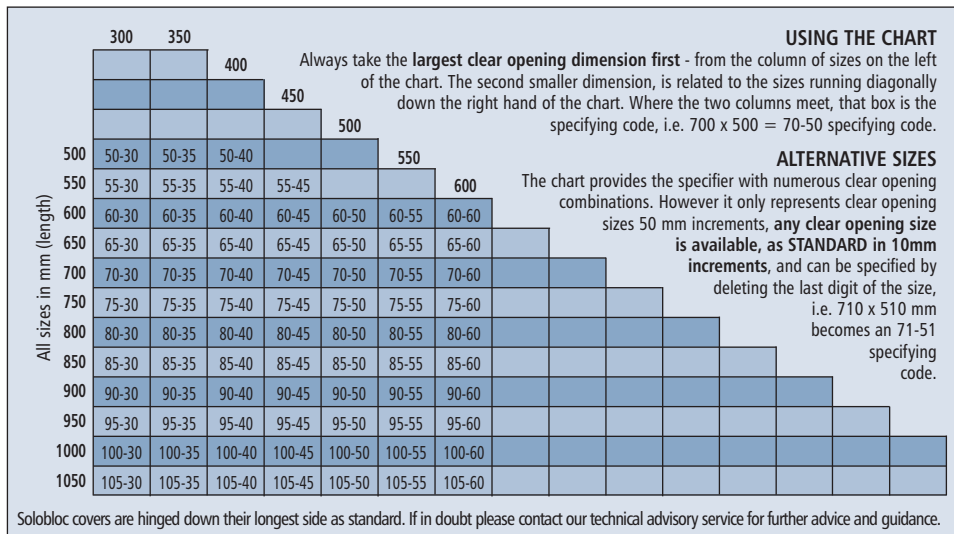
All access covers include pre-fitted mortar key mesh to bond infill. Epoxy mortar should always be used to measure stability of infill as covers hinge.

#### MECHANICS, PERFORMANCE

In order to ensure the covers continue to perform for their design life all Jones Solobloc covers are tested to BS EN 124 load classifications as listed pg 60. Further design considerations



PRODUCTS AND INFORMATION CAN BE AMENDED WITHOUT PRIOR CONSENT TO MAINTAIN THE COMPANY POLICY OF CONTINUED IMPROVEMENT

### CLEAR OPENING SIZES CHART



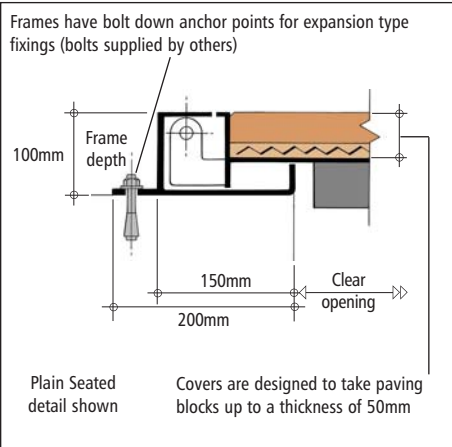
### LOAD CLASSES, BS EN 124

#### 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	Contact our technical support team for advice on exceptionally heavy vehicled areas.	/C
D400	400kN		/SD

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

### SECTIONAL DETAILS



#### DIMENSIONS

Installation dimensions, based around chamber clear openings are as shown. Although example clear opening sizes are tabulated, SOLOBLOC is available in any size to suit specific project requirements within the design scope of HSE compliance. Tray depth caters for 50mm or 65mm thickness of slab or pavior infill, please specify depth of block infill required.

### ACCESSORY SUFFIXES

To specify add the following suffixes to the professional specification code

- A1R - Single Rubber Seating Seal
- A4 - Ventilated
- B5 - Hasp and staple c/w hinged cover plate
- H1 - Service Identification (please specify)
- L8 - Internal fall protection
- X - Grade 304 Stainless Steel Construction
- Y - Grade 316 Stainless Steel Construction

#### DESIGN SCOPE

Solobloc covers maybe available for blocks greater than 65mm deep. The internal clear opening size and load class required will influence the exact infill cover depth available. Please contact our technical support team for advice on [techadvice@jonesofswestry.com](mailto:techadvice@jonesofswestry.com)

ALL TECHNICAL DETAILS ARE COPYRIGHT, AND MUST NOT BE REPRODUCED WITHOUT PRIOR CONSENT

### 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 DG100 needs to be added.

#### Coating suffix specifying codes:

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

PRODUCTS AND INFORMATION CAN BE AMENDED WITHOUT PRIOR CONSENT TO MAINTAIN THE COMPANY POLICY OF CONTINUED IMPROVEMENT

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	BLOCK INFILL DEPTH	ACCESSORY SUFFIX	FINISHED COATING
DETAIL	(SOLOBLOC SINGLE)	(700mm x 500mm)	(B125)	(65mm)	(SINGLE SEAL)	(SEE LONGEVITY TABLE)
PRODUCT Ref	CPH1	70-50	B	65	A1	DG100
THE ABOVE EQUALS FULL SPECIFYING CODE OF = CPH1/70-50/B/65/A1/DG100						