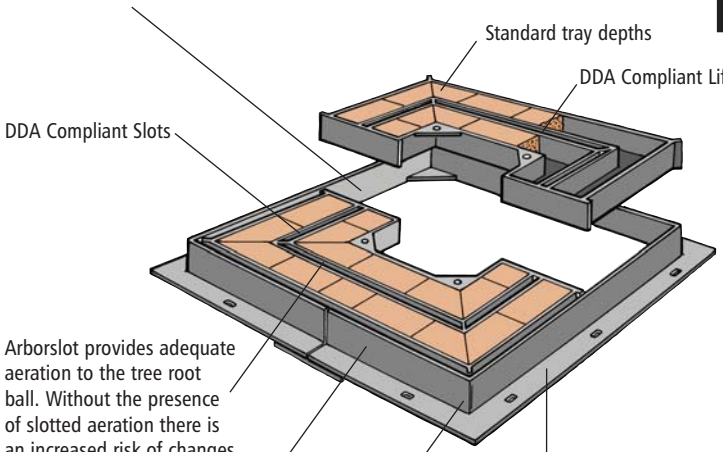
ARBORSLOT

BLOCK INFILL TREE SURROUND SYSTEM

DPA ARBORSLOT

All Arborslot 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. Arborslot units should be designed to cater for their intended application and should last the life of the project.
See chart on page 119 for the various grades of corrosion protection required to meet the designers obligations on Whole Life Costing for the project.

DURA GALV 70
DURA GALV 100
DURA GALV 140



DDA DUTY OF CARE
Compliant products

TOTAL CARE CODE

RIBA · CPD PROVIDERS NETWORK ·

Jones of Oswestry provides RIBA approved CPD support for designers and architects in the subject of true sustainable design.
Any interest should be emailed to marketingsupport@jonesofoswestry.com

GA galvanizers association

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ARBOR-SLOT
DPA • REFERENCE CODE

GENERAL TECHNICAL DETAIL, COMPOSITION AND MANUFACTURE

APPLICATION
Adequate soil watering and aeration to trees within paved areas where:-
- Aesthetic finish is important
- Public domain therefore anti slip and trip measures important
- DDA compliance is a design minimum.

GENERAL
Arborslot fabricated recessed tree surrounds are manufactured specifically to accept block pavior and slab in-fill.
The Arborslot drainage grating system is available in a range of sizes to suit specific site requirements and tray depths to suit specific infill thicknesses with their respective bedding.
Different tree species and maturity require different aperture sizes. Arborslot system includes any aperture size to suit.

MECHANICS, PERFORMANCE
Arborslot provides adequate aeration to the tree root ball.
Without the presence of slotted aeration there is an increased risk of changes to the soil PH value by virtue of the formation of Carbolic acids.
Soilbound essential nutrients can be locked-in and denied to the root system leading to increased risk of tree failure. In order to ensure the gratings continue to perform for their design life all Arborslot units are available in a range of load classifications as listed page 118.
Arborslot units are designed to support a vehicle load without transmitting any of that load to the root ball of the tree.
All units are designed with a reduced deflection when subject to load, to protect infill material. 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 drainage slots are DDA compliant and provide a minimum number of 2 slot rows to guard against surface water run-over in times of high rainfall.
Multiple slots also increase the hydraulic capacity or the units in service due to increased drainage slot area

COMPOSITION AND MANUFACTURE
Units are full welded fabrications using a minimum of 4mm thick structural steel plate. Grating slots are tapered to minimise the risk of trapped debris affecting the drainage capacity.
Frame units include heavy duty 'L' 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.

APERTURE SIZES CHART

Overall top of frame	4 x 4	6 x 6	8 x 8	10 x 10	12 x 12	14 x 14	16 x 16
2500 x 2500						682	424
2400 x 2400						582	324
2300 x 2300						482	
2200 x 2200					640	382	
2100 x 2100					540	282	
2000 x 2000					440		
1900 x 1900				598	340		
1800 x 1800				498	240		
1700 x 1700			656	398			
1600 x 1600			556	298			
1500 x 1500			456				
1400 x 1400		614	356				
1300 x 1300		514	256				
1200 x 1200	672	414					
1100 x 1100	572	314					
1000 x 1000	472						

Total block rows

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. 424 mm becomes a 42 specifying code.

Based on 200 x 100mm paviors/slab. For other models please contact techadvice@jonesofoswestry.com

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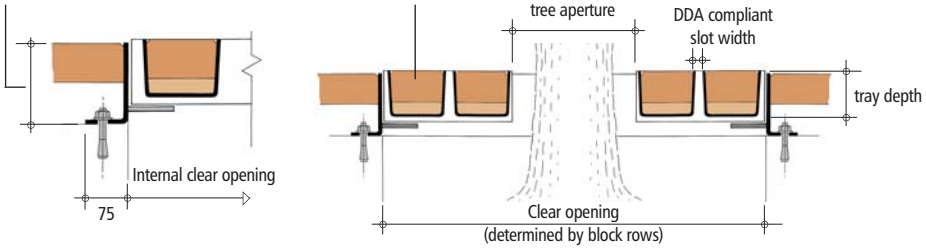
LOAD CLASSES, BS EN 124

EUROPEAN STANDARD FOR ACCESS COVERS
Use this chart to identify which loading weight, within BS EN 124 load classification is suitable for required cover.

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

SECTIONAL DETAILS

Frame depths to suit application. Tray depths of 75, 85, 105, 125 for corresponding block thicknesses of 50, 65, 80, 100



DIMENSIONS
Installation dimensions, based around chamber clear openings are as shown. Although example clear opening sizes are tabulated, ARBORSLOT 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 progressional specification code

B4 - Locking Down Bolts
B8 - Pinhead Security Locking Bolts
G2 - Threaded Lifting Bolts
H1 - Service Indentification (please specify)
M2 - Tree uplighter housing
M5 - Root irrigation system
RB - Rootbox (see Rootbox section)
X - Grade 304 Stainless Steel Construction
Y - Grade 316 Stainless Steel Construction
TG - Tree guards (contact techadvice@jonesofoswestry.com for compliant solution)

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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 DG100 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	MAIN PRODUCT CODE: PRODUCT TYPE	OVERALL TOP OF FRAME	TREE APERTURE	LOAD CLASS	INTERNAL DEPTH OF TRAY	ACCESSORY SUFFIX	FINISHED COATING
DETAIL	(ARBORSLOT)	(1000mm x 1000mm)	(472)	(B125)	(75mm)	(LOCKING DOWN BOLTS)	(SEE LONGEVITY TABLE)
PRODUCT Ref	**DPA**	**100-100**	**47**	**B**	**75**	**G2**	**DG100**

THE ABOVE EQUALS FULL SPECIFYING CODE OF = DPA/100-100/47/B/75/G2/DG100

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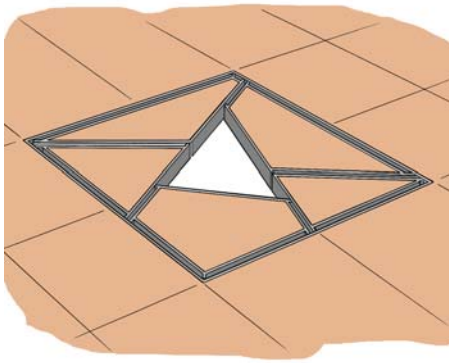
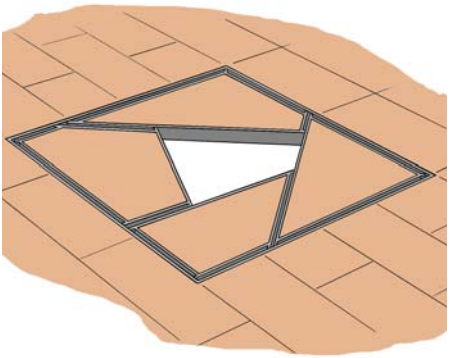
ARBORSLOT

THE ORIGINAL BLOCK INFILL TREE SURROUND RANGE

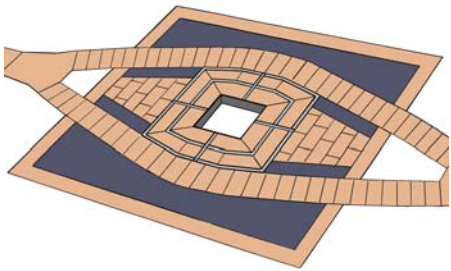
DPA • DESIGN DIFFERENCES



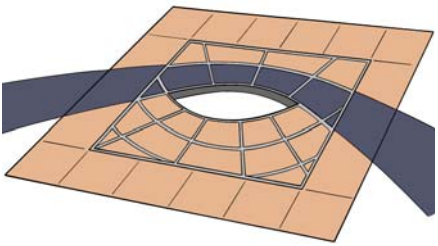
Custom built Arborslot with triangular tree aperture



Custom design with shaped aperture and infill units



Arborslot unit incorporated into an extremely detailed streetscape project



Example of commissioned Arborslot with oval tree aperture

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