

# ROOT BOX

TREE ROOT CONTAINMENT HOUSING USED IN CONJUNCTION WITH TREE SURROUND

## RB ROOTBOX

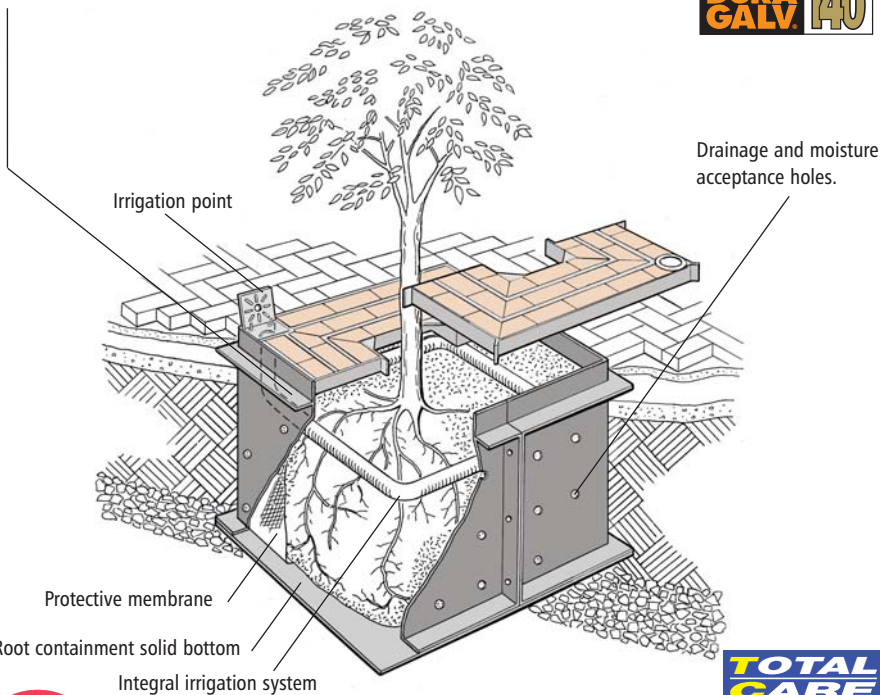
Rootbox units are post galvanised in excess of BS EN 1461. Post Galvanised coating thickness is available in 3 grades of finish to suit the specific project geographical location. Units should be designed to cater for their intended application and should last the life of the project.

See chart on page 124 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



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](mailto:marketingsupport@jonesofoswestry.com)

**TOTAL CARE CODE**  
GA galvanizers association

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**JONES**  
OF OSWESTRY

SECTION 1 PAGE 121

# ROOTBOX

## RB REFERENCE CODE

### GENERAL TECHNICAL DETAIL, COMPOSITION AND MANUFACTURE

#### APPLICATION

Typical applications for ROOTBOX include hard landscape areas where trees have been introduced into pavement areas.

#### GENERAL

The function of the ROOTBOX system, in conjunction with drainage grating, is to ensure the spread of tree roots are limited as the tree matures during its design life. ROOTBOX prevents potential damage to underground services and adjacent building foundations by restricting the tree root spread.

Mature canopy size can be controlled by sizing the ROOTBOX accordingly, thus resulting in a more manageable tree stock. See sectional details opposite.

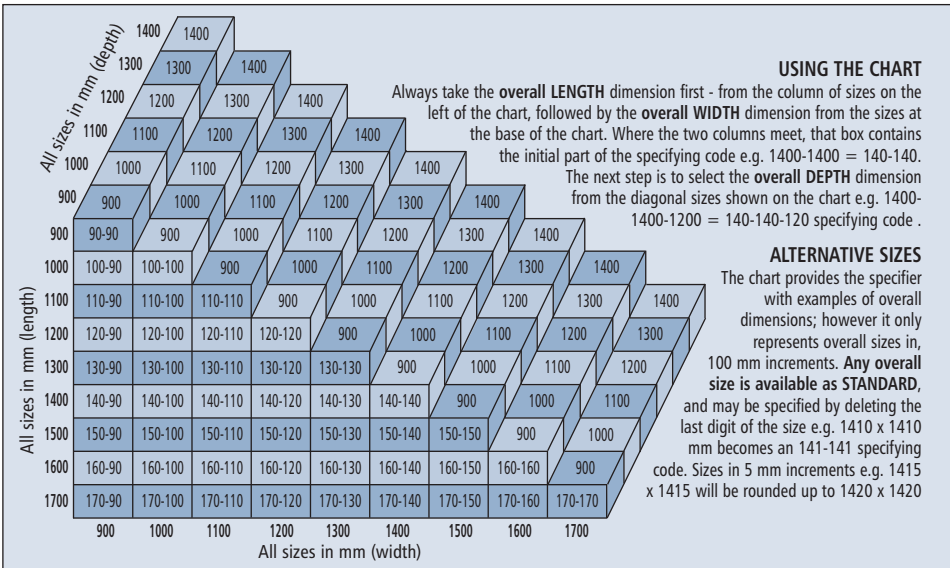
#### COMPOSITION AND MANUFACTURE

ROOTBOX units are fully welded fabrications using a minimum of 4mm thick structural steel plate.

Walls of ROOTBOX are holed to allow waterfeed but prevent the development of larger 'Damaging' roots outside the boundary of the

rootbox. ROOTBOX is available, designed to accept pavior infill or slotted tree surrounds. Details of each of these refer to ARBORSLOT and VENTRAFLOW in this manual.

### INTERNAL CLEAR OPENING SIZES CHART



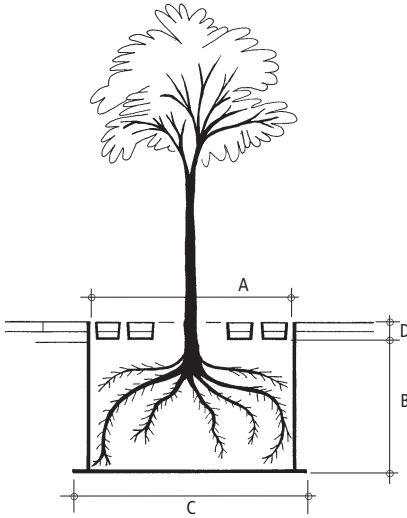
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# ROOTBOX

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### SECTIONAL DETAILS

**SMALL TREE - STANDARD ROOTBOX**



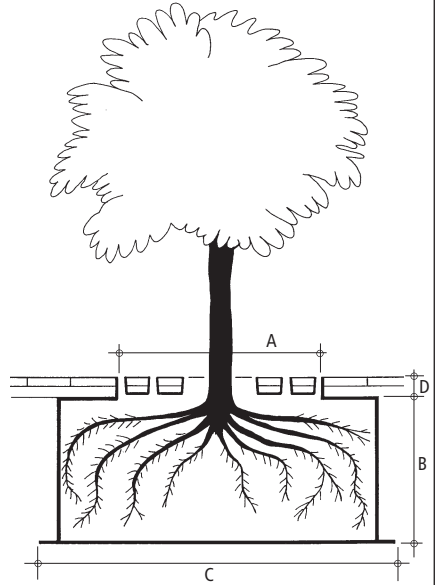
Integral frame and rootbox system for rigidity and compatibility of products and material.

**RBS** - Rootbox small tree

Dimensions shown

- A = Tree surround clear opening
- B = Rootbox depth (for infill)
- C = Base size of rootbox
- D = Block depth plus depth of Arboslot product.

**LARGE TREE - LARGER ROOTBOX**



Integral frame and rootbox system for rigidity and compatibility of products and material with extended width and depth to accommodate larger tree types.

**RBL** - Rootbox large tree

Dimensions shown

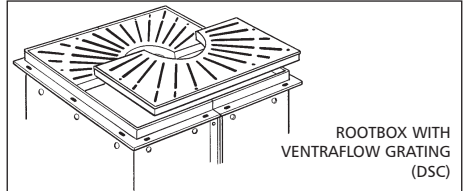
- A = Tree surround clear opening
- B = Rootbox depth (for infill)
- C = Base size of rootbox
- D = Block depth plus depth of Arboslot product.

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### ACCESSORY SUFFIXES

To specify add the following suffixes to the progressive specification code.

- DPA - Arboslot gratings (Block infill and DDA slotted)
- DSC - DDA compliant, slotted tree surround gratings (state colour)
- X - Grade 304 Stainless Steel Construction
- Y - Grade 316 Stainless Steel Construction



# ROOTBOX

## RB REFERENCE CODE

### 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 DGI00 needs to be added.

#### Coating suffix specifying codes:

- Duragalv70 = DG70
- Duragalv100 = DGI00
- Duragalv140 = DGI40

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

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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

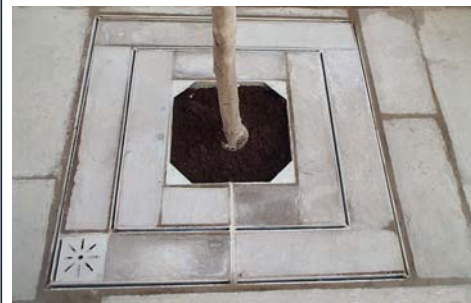
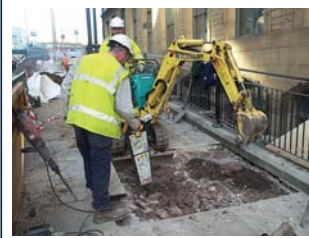
PROGRESSIONAL EXAMPLE FOR SPECIFYING								
MAIN PRODUCT CODE								
Ref DESCRIPTION	PRODUCT TYPE	GRATING STYLE	CLEAR OPENING (A)	BOX DEPTH (B)	BASE SIZE (C)	FRAME DEPTH (D)	ACCESSORY SUFFIX	FINISHED COATING
DETAIL	(ROOTBOX LARGE)	(ARBORSLOT)	(1400mm x 1400mm)	(1200mm)	(1500mm x 1500mm)	(96mm)	e.g. (GRADE 316 STAINLESS STEEL)	(SEE LONGEVITY TABLE)
PRODUCT Ref	RBL	DPA	140-140	120	150-150	96		DG100
THE ABOVE EQUALS FULL SPECIFYING CODE OF = RBL/DPB/140-140/120/150-150/96/DG100								

## TOTAL CARE CODE

Use our wealth of practical experience to provide a one stop shop Total Service. We illustrate below one of our experienced fitting teams – one of the many employed directly by us to fit our products across the country. After we have completed an initial site survey we design, manufacture, in-house galvanize and install. It is our aim to supply exactly what the customer requires, or assist in finding effective solutions to streetscape problems.

1. Checking area for buried services and obstructions (after initial site survey)
2. Making good excavated area with new infill
3. Root Box unit in correct level position
4. Surrounding area made good awaiting flag stones and tree
5. Protective membrane, tree and correctly mixed soil being installed
6. Integral irrigation system around root ball being covered with soil
7. Block infill, soil and both cover halves in position
8. Row of Arborslot tree surrounds in position within pavement area

(Integral irrigation system, loam compost, urban tree soil, trees, etc all supplied and advised upon by ourselves)



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