DESIGN STANDARDS FOR: IRRIGATION SYSTEMS

1. The following note shall be included on the drawings or in the irrigation system specifications:
   a. "Irrigation boxes shall include a lockable lid and locking hardware such as bolts and clips necessary for access-proof security."
   b. Provide locking lid and hardware by Carson, or equivalent (see attachment) Series number’s 1419 or and 1324. or equivalent

2. There shall be no gate valves on any irrigation or plumbing systems. All shall be ball valves.

3. Quick couplers shall be by Buckner, 1” Brass.

4. All laterals and irrigation pipe shall be minimum wall thickness of schedule 40. No exceptions.

5. All inlet inline plastic valves for irrigation shall be Rainbird 150PESB - 1 1/2 in. Inlet Inline Plastic Industrial Irrigation Valve or sized appropriate to the system., or equivalent. All inline valves shall be plastic industrial.
General Detail

Medium Box Series 1324

Product: HDPE Drop-in Cover
1324-2B Bolt Down Cover

Product: Iron Cover & Frame
EN124 Class B125
Cast/Ductile Iron Cover and Frame

Product: Concrete Cover & Frame
EN124 Class B125
Concrete Infill and Galvanised Steel Frame

Product: Box
1324-15B (with Insert)
Dimensions:
Inside: Outside
L/W 600/355
X/Y 760/575

Product: Box
1324-18
Dimensions:
Inside: Outside
L/W 565/325
X/Y 790/540

Product: Base Extension
1324-8
L/W 790/540

Options & Accessories:
- Box colours available: Black, Green. Other colours to special order.
- 102 x 102 Knock Out (2 places)

Application Notes: Carson boxes are suitable for a wide range of applications, from grey water (A15) to car park applications (B125). It is important to select the correct cover and frame and installation method to suit the loading and local conditions. Technical advice is available from Carson. These products are not designed for carriage-way use. All dimensions to nearest 5mm. Due to our policy of continuous improvement, we reserve the right to change specifications without notice.

CITY OF BELLEWHAM PARKS AND RECREATION DESIGN STANDARDS FOR PARK AND TRAIL DEVELOPMENT
Material Data
(Specification available on request)
Structural Foam - High Density Polyethylene
HDPE has excellent chemical resistance to ethanol, acetone, diesel etc. and is unaffected by sulfate ground conditions.
- Recyclable
- Robust - no breakage waste
- Completely impervious to water
- Nitrogen injection creates cellular core (CFC free)
- High strength to weight ratio
- High stiffness to weight ratio
- Easy to cut for duct entries

Properties of
unfoamed resin
Test
Method
HDPE
Tensile Strength
ISO 1926
21.37 - 37.82 N/mm²
Flexural Modulus
ISO 1290 - 2
1103 - 1447 N/mm²
Notched Izod Impact Strength
ISO 180 - 1A
270 - 800 J/M
Deflection Temperature
ISO 75 - 1
73 - 82°C
Density
ISO 8962
0.955 g/cm³
Chemical Resistance
- Excellent
Water Absorption
- None

Vertical Load Rating
Meets the loading requirements of EN124 Class B125 i.e. 125kN (~12,5T) test load when tested in free standing load tests - independent of backfill. Suitable for areas accessible to all slow moving traffic.

Cover and Frame Options

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<tr>
<td>Concrete Infill Cover &amp; Galvanised Steel Frame (EN124 Class B125)</td>
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<td>Cast/Ductile Iron Cover &amp; Frame (EN124 Class B125)</td>
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Other options available on request.

Shipping Configuration

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Application Notes: Carson boxes are suitable for a wide range of applications, from grass verge (5-10) to car park applications (B125). It is important to select the correct cover and frame and installation method to suit the loading and local conditions. Technical advice is available from Carson. These products are not designed for carriageway use. All dimensions to nearest mm.

Due to our policy of continuous improvement, we reserve the right to change specifications without notice.
END OF SECTION