



DESIGN STANDARDS FOR: IRRIGATION SYSTEMS

1. The following note shall be included in the drawings or in the irrigation system specifications. Reference Figure 1, below, for other typical details:
 - 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

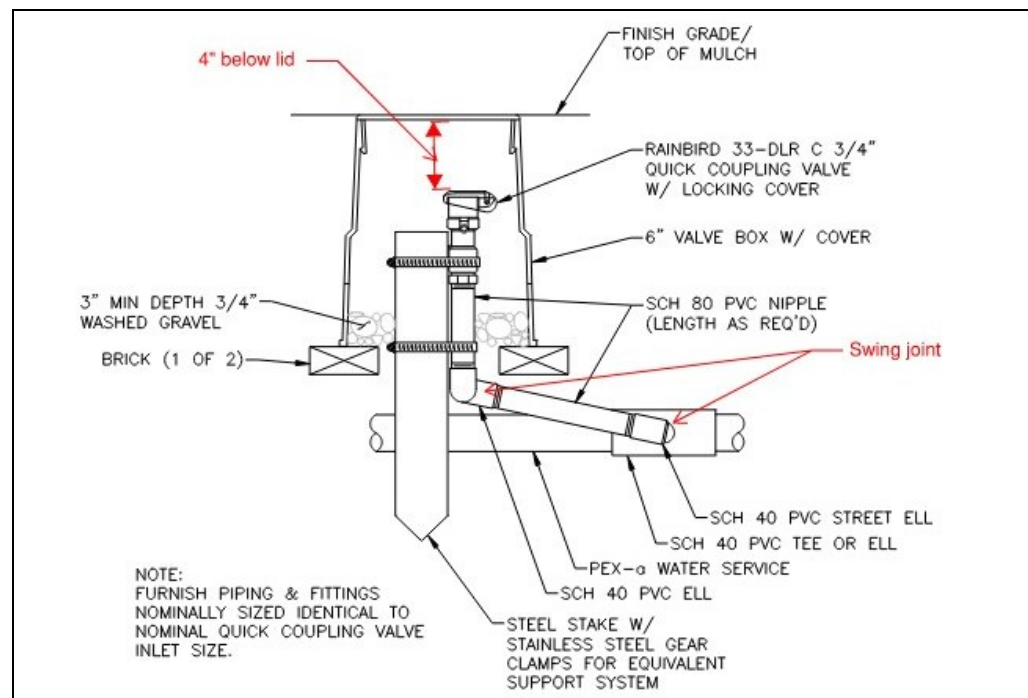


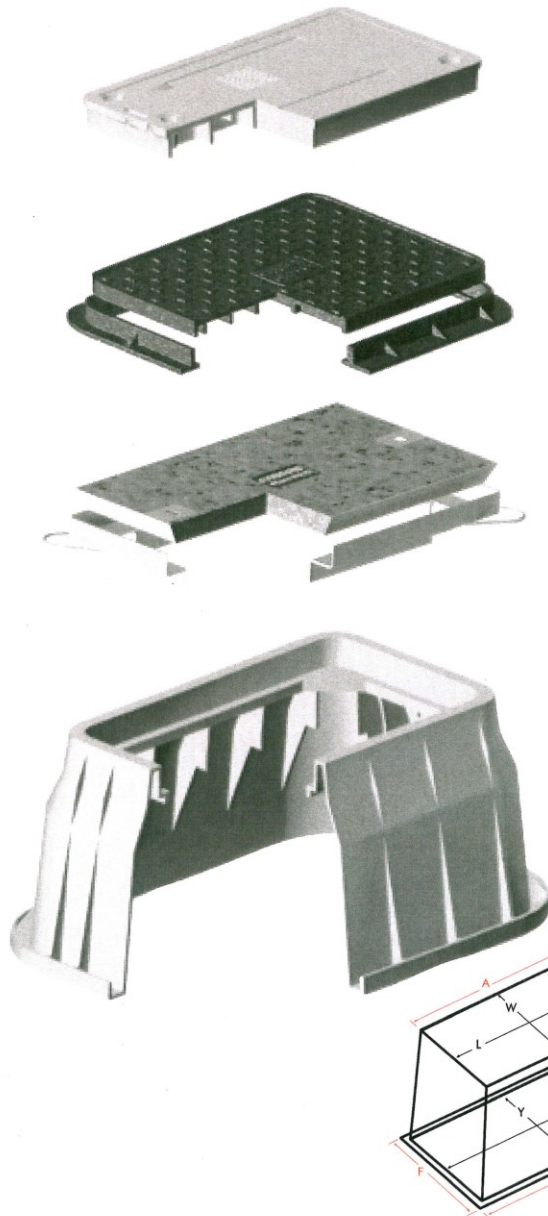
FIGURE 1 – Quick Coupling Valve in Box

2. There shall be no gate valves on any irrigation or plumbing systems. All shall be ball valves.
3. Quick couplers shall be by Rainbird, as shown in Figure 1.
4. All laterals and irrigation pipes shall be minimum wall thickness of schedule 40. No exceptions.
5. Cover depth of soil over laterals shall be 18" and depth of soil cover over mains shall be 24".

6. 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.
7. Controllers shall be Hunter ICC2 Plastic Wall-Mount Cabinet
 - a. Number of zones to be determined by designer:
 - (1) With integral “___” station base module
 - (2) ICN-2200 “___” station expansion module (brings total number of valves controlled to “___”
 - b. WIFI communication module for remote access via WIFI.
 - c. SOLAR-SYNC-SEN weather sensor module for automatic control based on current weather/climate conditions. Attach sensor wiring.
 - d. Seal any penetration in the building envelope with a weather resistant silicone sealant, neatly applied. Stabilize the wire with 4mm round steel wall wire clips at 12” o.c.
 - a. Provide O&M manuals and other documentation, warranties, registration documents to the City in hard copy and electronic PDF copy.
 - b. Provide City staff training on site of all components.
 - c. Equipment ordering information: HD Fowler in Bellingham.

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	A/B 645/400	D 390
X/Y 760/575	E/F 835/590	

Product **Box**
(not shown) 1324-18

Dimensions:

Inside	Outside	
L/W 565/325	A/B 630/390	D 455
X/Y 790/540	E/F 860/620	

Product **Base Extension**
(not shown) 1324-8
L/W 790/540 A/B 860/620 D 205

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 grass verge (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 carriageway use. All dimensions to nearest 5mm. Due to our policy of continuous improvement, we reserve the right to change specifications without notice.



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Technical Specifications Medium Box Series 1324

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.

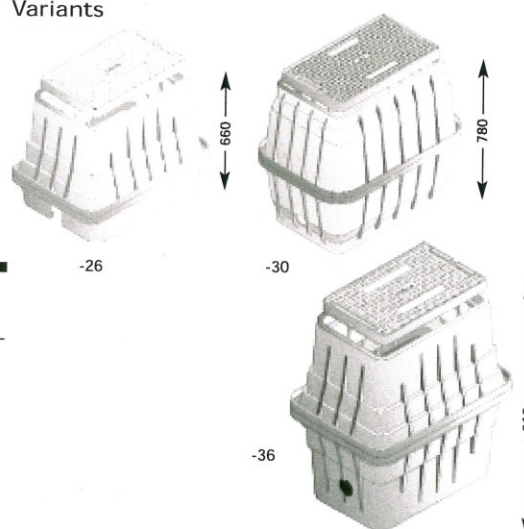
- Recyclable
- Robust - no breakage waste
- Completely impervious to water
- Nitrogen injection creates cellular core (CFC free)
- High strength to weight ratio
- High stiffness to weight ratio
- Easy to cut for duct entries

Properties of unfoamed resin	Test Method	HDPE
Tensile Strength	ISO 1926	21.37 - 37.92 N/mm ²
Flexural Modulus	ISO 1290 - 2	1103 - 1447 N/mm ²
Notched Izod Impact Strength	ISO 180 - 1A	270 - 800 J/M
Deflection Temperature	ISO 75 - 1	73 - 82°
Density	ISO 8962	0.955 g/cm ³
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.

Variants



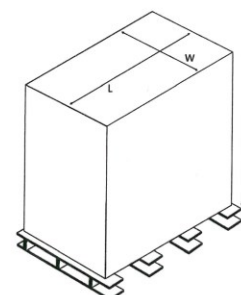
Cover and Frame Options

	-15	-18
· HDPE (A15)	✓	✓
· Concrete Infill Cover & Galvanised Steel Frame (EN124 Class B125)	✓	✓
· Cast/Ductile Iron Cover & Frame (EN124 Class B125)	✓	✓

Other options available on request.

Shipping Configuration

	1324-15B	1324-18
#/pallet	26	28
L	1220	1220
W	825	825
H	2670	2415



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END OF SECTION