

Sustainable
Design



DeepStream Designs Planters

Modular Planters

Multi-section
Planters

Privacy Screens

360° Enclosures

Recycling Bins

Trash Receptacles

Chameleon Bins

Benches

Custom Fixtures



DeepStream Designs

2699 Tigertail Avenue, #54
Miami, FL 33133

Phone: 305-857-0466

Fax: 305-854-3218

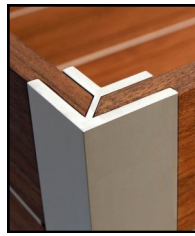
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www.DeepStreamDesign.com

Lifetime Structural Warranty

DeepStream Designs

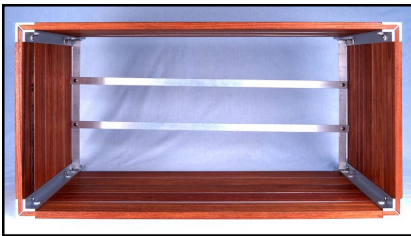
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Sustainable Design Planters



LIFETIME STRUCTURAL WARRANTY



Top: View of planter box from above
Bottom: Rotomolded planter liner

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Sustainable Design sets our products apart

DeepStream Designs' mission is to provide alternative products with a timeless design that are engineered and constructed so that they will endure for generations, reducing the impact on the earth's resources, and providing the lowest cost of ownership over time.

Therefore, if you're looking for a cheap or short-term solution for planters or recyclers, it would be a waste of your time to specify our product for your project. We are philosophically opposed to building cheap products that will be thrown away in a couple of years, or will end up costing our customers more over time.

Why are DeepStream Designs' Mariner Planters different from the "knocked together" ones you see falling apart everywhere?

Longevity: Classic modern design engineered for the **lowest lifecycle cost of any wooden planter** never goes out of style.

Frameless design: DeepStream's proprietary marine-anodized legs and Anti-Gravity frame system contain and direct the incredible differential forces wood creates when it expands and contracts in the rain and sun, delivering **decades** of attractive service. Wood that is bolted or screwed together will tear itself apart in time as each piece expands and contracts at different rates, because they come from different trees and parts of trees.

Better planting environment produces beneficial macro-environmental conditions with less materials and water:

Plants in our containers will grow better with less soil volume in many difficult sunny locations, because our *planter-within-a-planter* design prevents the root ball from overheating. Our design ensures that the sides of the liner holding the root ball are never exposed to the direct sunlight, which can steam a root ball that is uninsulated by a thick, heavy layer of soil.

The outer planter box also hides drip irrigation lines, and provides for better-controlled drainage and less water usage, which is an important design consideration for balconies, roof decks, and geographical locations with water shortages. This reduces demands on municipal systems and the environment, while at the same time improving the environment by providing more oxygen, absorbing CO2 and other greenhouse gasses, and cooling shaded structures to reduce energy use.

Customization: Mariner and Audubon legs are available in various shapes that allow us to quickly build modular planters of infinite dimensions in any rectilinear configuration. They can also be single-sided to reduce costs. While standard leg heights are 21", 31", and 42", they are available up to 144".

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Multi-Section Planters



Above: Structural view of a multi-section planter.

Our multi-section planters are more **cost-effective** than the same number of individual planters because they require less material.

We can design the planters to use a combination of less expensive standard molded liners, although custom liners are always an option.

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To create an over-sized planter or a long run of planters, our Multi-Section Planters are easy to install and more cost-effective than individual planters. Perfect for roof decks because the light-weight, modular design allows maintenance access.



<Part of an 800 LF installation on a New York roof terrace in Ipe Brown recycled plastic lumber.



< Three-section planter in Ipe wood, which has been installed on a Chicago roof terrace for over a year with no refinishing.

We combine our Mariner corner with our Mariner T-leg to join lengths of wood, recycled plastic lumber or other materials to build the size you need.

For long, narrow planters, we install a frame to support the liners. For larger, deeper planters, the wooden box is a façade around foam-supported liners.

We've even built a one-sided façade for permanent installation along a 40-foot long wall - why spend money on a beautiful planter wall that no one will see?

Lifetime Structural Warranty - No paint or powder coating to fail

DeepStream Designs

www.DeepStreamDesign.com

Mariner Planter Size and Pricing Overview

DeepStream Designs builds all of our planters to order, and we can build almost any size from 18"–72" long and 12"–60" wide. We stock three standard leg heights: 21", 31" and 42". We also have a T-leg which we use to build multi-section planters when larger sizes are needed.

We can build planters in a variety of materials, from solid tropical hardwoods (Jatoba, Ipe and Cumaru) to Recycled Plastic Lumber (RPL - 12 colors) to stone laminates, copper and resin panels.

The table below shows budget pricing* for our 15 stock sizes (price includes liner and drain filter pack). We offer a 5% discount for 5-9 units, 10% discount for 10+ units.

Planters made with Recycled Plastic Lumber are typically less expensive and require almost no maintenance.

Our products are designed without any paint or powder coating to fail, and we back our planters with a **LIFETIME STRUCTURAL WARRANTY**.

**BUDGET PRICES are subject to change without notice.*

Planter #	Planter Box Dims L x W x H	Liner Dims L x W x D	Mariner Solid Wood		Recycled Plastic Lumber*	
			List	w/ Zeph	List	w/ Zeph
*NOTE: RPL Planters 18" W are priced with 3 planks and 3.5" reveal, 24" W with 4 planks and 2" reveal below panels						
MAR-361821	36" x 18" x 21.5"	33.5" x 15.5" x 16"D	\$ 1,745.00	\$ 1,840.00	\$ 1,450.00	\$ 1,605.00
MAR-421821	42" x 18" x 21.5"	39.5" x 15.5" x 14"D	\$ 1,620.00	\$ 1,925.00	\$ 1,570.00	\$ 1,670.00
MAR-422421	42" x 24" x 21.5"	39.5" x 21.5" x 17"D	\$ 2,030.00	\$ 2,045.00	\$ 1,735.00	\$ 1,905.00
MAR-481821	48" x 18" x 21.5"	45.5" x 15.5" x 16" D	\$ 1,875.00	\$ 2,005.00	\$ 1,720.00	\$ 2,045.00
MAR-482421	48" x 24" x 21.5"	45.5" x 21.5" x 17" D	\$ 1,940.00	\$ 2,075.00	\$ 1,710.00	\$ 2,035.00
MAR-483621	48" x 36" x 21.5"	45" x 33" x 16"D	\$ 2,125.00	\$ 2,305.00	\$ 2,110.00	\$ 2,255.00
MAR-561821	56" x 18" x 21.5"	53" x 15.5" x 16"D	\$ 1,988.00	\$ 2,145.00	\$ 1,810.00	\$ 1,895.00
MAR-562421	56" x 24" x 21.5"	53" x 21.5" x 17"D	\$ 2,030.00	\$ 2,180.00	\$ 1,970.00	\$ 2,115.00
MAR-601821	60" x 18" x 21.5"	57.5" x 15.5" x 16"D	\$ 2,030.00	\$ 1,840.00	\$ 1,860.00	\$ 2,030.00
MAR-602421	60" x 24" x 21.5"	57.5" x 21.5" x 17"D	\$ 2,135.00	\$ 2,245.00	\$ 2,105.00	\$ 2,185.00
MAR-721821	72" x 18" x 21.5"	69.5" x 15.5" x 16"D	\$ 2,245.00	\$ 2,385.00	\$ 2,065.00	\$ 2,220.00
MAR-722421	72" x 24" x 21.5"	69.5" x 21.5" x 17"D	\$ 2,285.00	\$ 2,445.00	\$ 2,365.00	\$ 2,425.00
MAR-242421	24" x 24" x 21.5"	21.75"Sq x 17"D	\$ 1,550.00	\$ 1,725.00	\$ 1,750.00	\$ 1,595.00
MAR-363631	36" x 36" x 31.5"	33" x 33" x 28"D	\$ 2,330.00	\$ 2,470.00	\$ 2,050.00	\$ 2,045.00
MAR-484831	48" x 48" x 31.5"	45" x 45" x 28"D	\$ 2,970.00	\$ 3,335.00	\$ 2,675.00	\$ 2,875.00

Updated 7/1/24

For budgeting, our multi-section planters with a 21.5" height run approximately \$325-\$375/linear foot including commercial-grade molded plastic liners. For a 31.5" height, add approx. 15-20%.

Our planters will last for decades, offering the lowest cost of ownership over time, and are designed so that they can be disassembled in future years to have parts replaced, should that be necessary – they won't rot away like traditional wood planter boxes.

We find that most projects we quote are for custom sizes, so if you send us the sizes, quantities and finish you are looking for, we'll be happy to put together a quote for any project you are working on.

Planters are also available with casters, security clips, trellis attachments, and screen wall.

Rev 7/2024

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Contact: Sheila Boyce 305-857-0466

Estimated Planter Weights

Revised 2/24/17

Custom weights available by request

			Planter/Liner					40#/Cu Ft	8.34#/Gal	Est Weight/SF			
Stock	Planter Wt w/Liner (#)		Est Weight/SF		Stock (OD)	Liner Volume		Est Wt	Est Wt	Planter w/ Wet Soil		Planter w/Water	
Planter Size	Ipe* Wood	RPL**	Ipe	RPL	Liner Size	Cubic Ft	Gallons	Ltwt Soil Wet	Water*	Ipe	RPL	Ipe	RPL
36x18x21	98	67	21.8	14.9	33.5x15.5x16	3.0	22.3	119.2	185.9	48.3	49.6	63.1	56.2
42x18x21	104	72	19.8	13.7	39.5x15.5x14	3.6	27.0	144.4	225.2	47.3	41.2	62.7	56.6
48x18x21	113	86	18.8	14.3	45.5x15.5x16	4.6	34.4	184	286.9	49.5	45.0	66.6	62.1
48x24x21	130	106	16.3	13.3	45.5x21.5x17	7.2	54.0	288	450.4	52.3	49.3	72.5	69.5
48x24x31	183	150	22.9	18.8	45.5x21.5x17	7.2	54.0	288	450.4	58.9	54.8	79.2	75.0
48x33x21	141	116	12.8	10.5	45x33x16	11.0	82.6	440	688.9	52.8	50.5	75.4	73.2
56x18x21	133	100	19.0	14.3	53x15.5x16	5.6	41.7	224	347.8	51.0	46.3	68.7	64.0
56x24x21	143	103	15.3	11.0	53x21.5x17	10.1	75.6	404	630.1	58.6	54.3	82.8	78.5
72x18x21	176	133	19.6	14.8	69.5x15.5x16	7.6	57.0	304	475.4	53.3	48.6	72.4	67.6
72x24x21	184	145	15.3	12.1	69.5x21.5x17	11.0	82.7	440	689.7	52.0	48.8	72.8	69.6
24x24x21	93	63.5	23.3	15.9	20.5x20.5x17	3.3	34.3	130	286.1	55.8	48.4	94.8	87.4
36x36x31	175	128	19.4	14.2	33x33x28	14.0	104.3	558	870.2	81.4	76.2	116.1	110.9

*Ipe is the heaviest wood we use

**Recycled Plastic Lumber (extruded HDPE)

*Water weight is a worst-case estimate

if the liner were filled to top with water

DeepStream Designs

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LIFETIME STRUCTURAL WARRANTY

No paint or powder coating to fail



Above: Recycled Plastic Lumber planters are ideal to anchor a frosted glass screen wall and security door that create a dining area for the USO at LAX.

For every planter sold,
DSD plants 50 trees
through **Trees for the Future** (www.trees.org)

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Planter Anchored Restaurant Screen Walls

No Sidewalk or Roof Penetrations Required

Privacy screens and walls can be incorporated into our Mariner Planter collection. Our individual planters or long, multi-section runs can create private areas for rooftop gardens and restaurants with outdoor dining.



Above and below: A newly constructed residential rooftop in Manhattan used our Mariner multi-section planters with high slatted back walls to create seating and dining areas for residents and guests. The planters were made from solid Jatoba wood with Zephyr aluminum banding to match the OPUS Trash bins that were also purchased for the rooftop.



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Planter Anchored Restaurant Screen Walls

No Sidewalk or Roof Penetrations Required



Above: Mariner wood planter with trellis mount.

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A restaurant's exterior smoking section. complete with gates and storage benches, created with planter-mounted aluminum screen wall between the building and parking lot.



Lifetime Structural Warranty

Anodized Aluminum - No Paint or Powder Coating to Fail

DeepStream Designs

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Planter Anchored Restaurant Screen Walls

No Sidewalk or Roof Penetrations Required



Glass Screen Wall, anchored by movable restaurant planters using proprietary differential height aluminum extrusions, forms an attractive, integrated windbreak with lights, inviting customers into a cozy urban garden patio, extending the season, reducing noise, and controlling access while expanding seating.



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Commercial Planters on Hidden Casters



Above: Custom 21.5" H planter in Cumaru with Zephyr aluminum banding. Designed on hidden casters to support a weather-proof TV.

Right: 42" x 18" x 31.5" H planters in Lyptus wood with Zephyr aluminum banding. The two center planters are on hidden casters.



Right bottom: Sample view of hidden caster base. Outdoor casters have stainless steel forks and single 2-1/2" or 3" polyolefin wheels depending on capacity required.



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LIFETIME STRUCTURAL WARRANTY

No paint or powder coating to fail

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Planter Trellis Option

Even with the best view, sometimes you need a bit of privacy. Our trellis option allows you to create a separate space with a colorful screen of flowers.



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- Stainless steel mesh or rods and aluminum frame are wind and weatherproof.
- Materials: 1" anodized square Aluminum tubing with heavy plastic corner fittings or 1" polished round Aluminum tubing with machined aluminum corner fittings; Stainless Steel mesh or rods.
- Sized to fit planter size. Specify desired height.
- Frame is secured to the planter box by drilled and tapped aluminum flat bar, stainless steel bolts and aircraft lock nuts, or mounted directly to legs.
- It may be installed in the center, along the front or back wall of the planter, or even diagonally from opposite corners.
- Two bolts on each tube make installation and removal quick and easy.
- For every planter sold, DeepStream plants 50 trees through **Trees for the Future** - www.trees.org

LIFETIME STRUCTURAL WARRANTY

No paint or powder coating to fail

DeepStream Designs

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Polycarbonate and 3form Screen Wall

Planter-Anchored or Stainless Steel Fixed Mounts

Our Privacy Screens and 360° Instant Access Enclosures are a stylish and simple solution for hotels, commercial and residential properties.



LIFETIME STRUCTURAL WARRANTY

Aluminum components are marine-anodized, so no paint or powder coating to fail.

For every Enclosure sold, DSD plants 100 trees through **Trees for the Future** (www.trees.org)

Privacy Screens (shown above with 3Form Thicket Raven at the Matrix Hotel, Edmonton, Canada) are a stylish privacy solution for hotel and residential balconies. Planter-anchored, they eliminate sidewalk, balcony or roof deck penetrations, avoiding a "permanent" designation by city or condo boards. Easily installed slide-in panels can be changed as needed.

Polycarbonate Screen Wall stands up to the harshest conditions. The "Window Pane" design below is as strong as it is stylish. Anchored at both ends to the building, with stainless steel feet mounting DeepStream's proprietary structural anodized aluminum extrusions to a curb with just one offset segment, it was engineered to withstand 100+ mph katabatic gusts off glaciers in Alaska.



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Easy-Access Utility Screens and Enclosures

Our Utility Screens with 360° access are a stylish and simple solution for hotels, commercial, and residential properties.



Easy-Access Utility Screens install in minutes to hide eyesores like pool pumps, A/C units, utility boxes, back flow preventers, and generators.

Custom-built to any size, instantly removable panels simply slide up and out, allowing access on all sides, even zero setbacks.

Shown *at left* with 4" marine-anodized aluminum planks forming a solid wall, and *below* with 1" spaces between 4" aluminum planks for ventilation.

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Our unique slide-in structural extrusions allow for an infinite variety. Panels can be built with aluminum or wood planks with varying space. Lexan, resin, glass, or laser cut panels can also be used.



360° Instant Access Enclosures (Above) can be set up in as little as 20 minutes to hide eyesores like utility boxes, generators, pool pumps and back flow preventers. Custom-built to any size, removable panels allow access on all sides and even zero setbacks. Shown with 1" spaces between 4" marine-anodized aluminum planks.

DeepStream Designs

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Recycled Plastic Lumber Color Options



Above: Standard 36 in Recycled HDPE Tropical Hardwood.

Below: POS Station in Recycled HDPE Ipe Brown with Dark Bronze-Anodized Aluminum



© DeepStreamDesign.com

ALSO AVAILABLE:
White and Black with
a smooth finish

**Samples are available
if required.**

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The Ultimate Recycling Statement — "Reduce, Reuse, Recycle"
We are proud to offer **our Mariner Planters, Recyclers,** and other custom products built with HDPE planks made from recycled milk jugs.

Below are SOLID COLORS with Embossed Woodgrain finish.



TROPICAL HARDWOOD



IPE BROWN



AGED HARDWOOD



WEATHERED TEAK

**CONCRETE
GRAY**



More colors >>

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Recycled Plastic Lumber Color Options



**Server Station with
Antique Mahogany panels**



Host Stand with White panels

The Ultimate Recycling Statement — "Reduce, Reuse, Recycle"
We are proud to offer **our Mariner Planters, Recyclers,** and other custom products built with HDPE planks made from recycled milk jugs.

Below are Premium WOODGRAIN COLORS embossed with Distressed finish and WHITE and BLACK with Smooth finish



Brazilian Walnut

Antique Mahogany

Natural Teak

Birchwood



Driftwood Gray

White Smooth

Black Smooth

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Solid Wood Options

We stock three species of tropical hardwoods that have been used in outdoor applications for centuries. Because wood is a natural material, there is variation in grains and color within the same species. The samples pictured below give you an idea of the range of color for each type of wood. We will be happy to send samples.



With every product sold
DeepStream plants
trees through
Trees for the Future
www.trees.org

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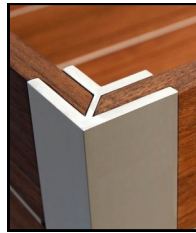
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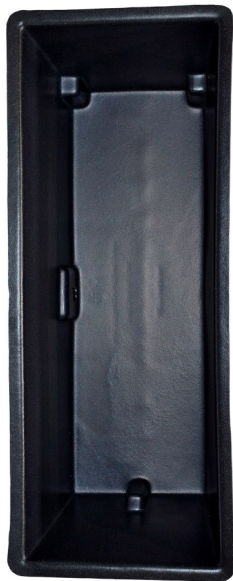
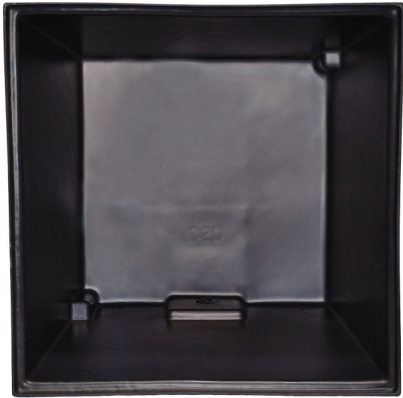
Our products have a ***Lifetime Structural Warranty***
and are designed without any paint or
powder coating to fail.

DeepStream Designs

Sustainable Design



Commercial Planter Liners



Also available by special order:

Custom-Welded Liners
built from stress-relieved
co-polypropylene in any
dimension.

Fiberglass Liners
for large volume planters.

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Heavy-duty liners support a wide range of planting styles



16 Stock liners – shown above. Liners are leakproof and can include (1) 3/4" drilled drain on one side wall at no additional charge. Food Safe Plastic. Semi-rigid design rotomolded from 100% post-industrial recycled LLDPE. Tapered design for stacked shipping and storage, and easy repotting.

<u>Liner Size (in.)</u> <u>L x W x D</u>	For DSD planter size (in.)	Volume c.f.	Volume gallons	Price
69.5 x 21.5 x 17	72 L x 24 W	10.5	79	\$ 335.00
69.5 x 15.5 x 16.5	72 L x 18 W	7.5	55	\$ 320.00
62 x 21.5 x 17 *	60 to 64 L x 24 W	9.5	71	\$ 275.00
62 x 15.5 x 16 *	60 to 64 L x 18 W	6	44.5	\$ 260.00
60 x 14 x 9	63 L x 16.5 W	3.5	25	\$ 225.00
56 x 21.5 x 17 *	55 to 58 L x 24 W	8.6	64	\$ 275.00
55 x 15.5 x 16 *	55 to 57 L x 18 W	5.6	41.6	\$ 260.00
48 x 21.5 x 17 *	48 to 50 L x 24 W	7.2	54	\$ 225.00
47 x 15.5 x 16 *	48 to 49 L x 18 W	4.7	35	\$ 215.00
46.5 x 34.5 x 16*	48 L x 36 W	11	82.6	\$ 300.00
44 x 21.5 x 17 *	41 to 46 L x 24 W	6.25	46.5	\$ 220.00
41.5 x 15.5 x 14 *	41 to 44 L x 18 W	3.6	27	\$ 175.00
35 x 15.5 x 16 *	36 to 37 L x 18 W	3	22	\$ 165.00
45 x 45 x 28	48 Square	26	194	\$ 425.00
33.5 x 33.5 x 27.5	36 Square	14	104	\$ 315.00
21.75 x 21.75 x 17	24 Square	3.5	25	\$ 150.00

*Some liners can have flanges trimmed as much as -3" from nominal length.

OPTIONS

- Additional 3/4" drilled drain holes - \$7.50 per hole
- 3/4" Threaded drain fitting - \$10 per hole
- Threaded plug, nipple or elbow to attach drain hose
- Drain filter pad assembly: Trem-Drain, geo-textile and Bio-barrier to place over drain hole - \$5.00 each

3/8/24

DeepStream Stock Liners

DSD Part #	Price	Overall Liner Flange Dimension (in.) L x W x D	Flange Range (in.)	Liner Interior Dimensions (in.) L x W x D	External Bottom Dimensions (in.) L x W	For DSD planter size (in.)	Volume c.f.	Volume gallons	Single Wt (lbs)
610016	\$ 335.00	69.5 x 21.5 x 17		67 x 18.5 x 16.75	63.25 x 15.5	72 L x 24 W	10.5	79	38
610017	\$ 320.00	69.5 x 15.5 x 16.5		67.5 x 13.5 x 16.25	64.5 x 10.25	72 L x 18 W	7.5	55	33.5
610028	\$ 275.00	62 x 21.5 x 17	62 to 57.5 L	56.5 x 19.75 x 16.75	52.5 x 16	60 to 64.5 L x 24 W	9.5	71	22
610029	\$ 260.00	62 x 15.5 x 16	62 to 57.5 L	56.5 x 13.75 x 15.75	52.5 x 10	60 to 64.5 L x 18 W	6	44.5	18
610031	\$ 225.00	60 x 14 x 9		58.5 x 11.75 x 8.75	56.75 x 10.5	62.5 L x 16.5 W	3.4	25	12
610026	\$ 275.00	56 x 21.5 x 17	53 to 56 L	51 x 19.75 x 16.75	47.5 x 16	55.5 to 58.5 L x 24 W	8.6	64	21.5
610034	\$ 250.00	55 x 15.5 x 16	53 to 55 L	51 x 13.5 x 15.75	49 x 11.75	55.5 to 57.5 L x 18 W	5.6	41.6	20.3
610037	\$ 300.00	46.5 x 34.5 x 16	45 to 46.6 L	43 x 31 x 15.75	40.25 x 28.25	48 L x 36 W	11	82.6	24
610025	\$ 225.00	48 x 21.5 x 17	45.5 to 48 L	43.5 x 19.5 x 16.75	40.5 x 16	48 to 50.5 L x 24 W	7.2	54	20.2
610030	\$ 215.00	47 x 15.5 x 16	45.5 to 47 L	43.5 x 13.5 x 15.75	41 x 11	48 to 49.5 L x 18 W	4.7	35	17.5
610027	\$ 220.00	44 x 21.5 x 17	39 to 44 L	37.5 x 19.5 x 16.75	34.75 x 15.75	41.5 to 46.5 L x 24 W	6.25	46.5	17
610032	\$ 175.00	41.5 x 15.5 x 14	39.5 to 41.5 L	37.5 x 13.5 x 13.75	35.5 x 12	41.5 to 44 L x 18 W	3.6	27	15.8
610033	\$ 165.00	35 x 15.5 x 16	33.5 to 35 L	31.75 x 13.5 x 15.75	28 x 10.25	36 to 37.5 L x 18 W	3	22	12
610024	\$ 425.00	45 x 45 x 28		43.5 x 43.5 x 27.5	36.25 x 36.25	48 Square	26	194	39
610006	\$ 315.00	33.5 x 33.5 x 28.5		32.5 x 32.5 x 28	26.25 x 26.25	36 Square	14	104	29
610005	\$ 150.00	21.75 x 21.75 x 17		20.25 x 20.25 x 16.75	17.75 x 17.75	24 Square	3.5	25	9.2

2/14/2024

DeepStream Designs

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Custom-Welded Liners



For every Liner sold, DSD
plants 10 trees through
Trees for the Future
(www.trees.org)

DeepStream Designs

2699 Tigertail Avenue, #54
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Our Custom-Welded Liners are the solution when you require a liner in a size for which a molded liner is not available. Fabricated from 1/4" or 3/8" co-polypropylene in the same way that water tanks are made for boats and RVs, our durable CW liners can be built to almost any dimension, and in odd shapes.

The liners are leakproof, and will have gussets supporting bottom corners, or cross straps to reduce bowing where required. Holes for drainage and irrigation lines can be drilled by the installer as required, or specify your requirements.

Available in Black or Natural (off-white) colors.

Please provide required dimensions when requesting a quotation.

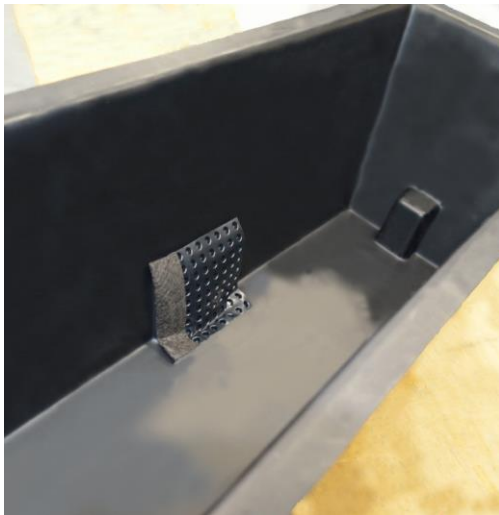
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Garden Planter Liner Planting Instructions

For more details, watch “Planting a Planter” video at <http://youtu.be/LmbWaoLXZK4>.

Stock DeepStream Designs rotomolded liners have a threaded drain hole about 2” up the side of the liner, instead of on the bottom, and we recommend installing side-wall drains on other liners because this drain hole can be covered conveniently by an **optional Drain Filter Pac** composed of **drainage board, weed block fabric, and Bio-Barrier*** to prevent clogging by silt and roots for an extended period of time. *You may want to install additional drain holes as required by your installation. Liners are non-structural and are intended to be used with planter boxes.*



For convenience DeepStream’s Drain Filter Pac, left, is an assembly of 3 components, right.

A planter is really just a shaped French Drain. The fines in the planting medium that clog drains are carried by the gravity-induced water flow downward towards the drain. These fines will block any filter membrane in a short time. The standard practice of placing the drain hole on the bottom of the planter liner covered with a few inches of gravel will quickly clog as the fines are drawn downward to the drain by water flow and gravity.

Even with the best soil selection, the speed of the water flow determines where fines will settle. If the water drains too fast, fines will be drawn to the drain, even a sidewall drain,

clogging the filter; too slow, and the plants drown. This is why we place our drainage hole on the side of the planter.

For the best results place a **Drain Filter Pac** over the side wall drainage hole with the fabric covered hard Bio Barrier bumps centered on the hole. Hold that in place and **control water speed** at the same time by mounding .25 Cu. Ft of very clean, very coarse sand, 1-2 mm particle size, against the Drain Filter Pac producing at least a 2-4" thick covering over before installing the other planting material. (For reference, the wire of a medium paper clip is 1 mm.) The reason for this size is to moderate the speed of the water flow. Gravel, even pea gravel, does not slow down water enough, drawing fines to the filter. Masonry or playground sand compacts, slowing water down too much, creating a watertight seal.

Clean coarse sand is hard to find. Recently I've been using a recycled rubber mulch that looks like flakes and is available at Home Depot. I find if I mound it at least 4-6" deep all the way around the drain pads and add some perlite it seems to accomplish the same water slowing effect with the flakes acting like mini-baffles.

The coarse sand/rubber mulch filter covers and holds the **Tremdrain®** drain board (think of plastic egg crate covered with geo-textile covering) which is used to increase the drainage surface area. When adding the plants to the planter, be sure not to compress this drain board against the side of the planter wall, especially easy to do with a large hard root ball, or it will act as a perfect seal against the drain and stop all water flow.

NOTE: Once the drain filter pack and coarse sand/rubber mulch are placed over the drain hole, but before installing the planting medium, run water into the liner to be sure the water will drain out.

***BioBarrier®**, used for more than 20 years by commercial growers, is a fabric embedded with plastic dots containing a non-systemic herbicide that leaches out over a 15-year period. It has a lower toxicity than table salt or aspirin, yet creates a 2" thick root-deflection zone around the drain. The manufacturer says that it is effective for up to 15 years. We know by experience that it may not be effective against aggressive roots of plants such as Bamboo and Clusia. However, using **BioBarrier**, combined with proper soil and filtration composite, and you may be able to go 15 years without digging up a planter for drains blocked by roots.

DeepStream Designs

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Some of Our Customers



^ Chameleon Trash Bin at
Aventura Hospital in Aventura, FL

v Spa Towel Return Bin at the
Ritz-Carlton in Charlotte, NC.



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HEALTHCARE

City of Hope Cancer Center - Duarte, CA
Michael J. Fox Foundation - New York, NY
Columbia University Medical Center - New York
Aventura Hospital - Aventura, FL
Miami Cancer Institute - Miami, FL
Sharp Memorial Hospital - San Diego, CA
Centra Health - Lynchburg, VA
St. Francis Healthcare System - Honolulu, HI
St. David's Center for Child and Family - Minnetonka, MN
Stoughton Hospital - Stoughton, WI
Orange Regional Medical Center - Middletown, NY
Codman Square Health Center - Boston, MA
Platinum Medical Center - Dearborn, MI
Atria Senior Living Facilities - CA
Friendship Senior Options - Schaumburg, IL
VA Puget Sound Healthcare System - Seattle, WA
Hartford Healthcare - East Hartford, CT
Medstar Harbor Hospital - Baltimore, MD

HOTELS/RESORTS

Aulani, A Disney Resort and Spa - Oahu, HI
Disneyland Hong Kong - Lantau Island, Hong Kong
Disneyland Resort - Anaheim, CA
Disney's Vero Beach Resort - Vero Beach, FL
Boston Park Plaza Hotel - Boston, MA
Ritz-Carlton Charlotte - Charlotte, NC
Ritz-Carlton Naples - Naples, FL
Ritz-Carlton Lake Tahoe - Truckee, CA
Mandarin Oriental - Miami, FL
Fairmont Scottsdale Princess - Scottsdale, AZ
Celebrity Edge Cruise Ship
Celebrity Apex Cruise Ship
Dream Hotel - Miami Beach, FL
Sheraton Hotels - Denver, CO and Dallas, TX
Sheraton Keauhou - Kailua-Kona, HI
Courtyard Los Angeles LAX - Los Angeles, CA
Grand Hyatt at SFO - San Francisco, CA
Hyatt Regency Waikiki Beach - Honolulu, HI
Hyatt Regency San Francisco - San Francisco, CA
Hyatt Regency Curaçao - Curaçao Island
Hyatt Regency Scottsdale - Scottsdale, AZ
Hyatt Regency Monterey - Monterey, CA
Hyatt Regency Chesapeake Bay - Cambridge, MD
Hyatt Regency Maui - Lahaina, HI
Marriott Orlando Grand Lakes - Orlando, FL
Marriott Long Wharf - Boston, MA
Marriott Key Largo - Key Largo, FL
Marriott Kansas City Airport - Kansas City, MO
Marriott Tysons Corner - Tysons Corner, VA
JW Marriott Miami Turnberry Resort & Spa - Aventura, FL
Seaport Hotel and World Trade Center - Boston, MA
Hilton Bonnet Creek - Orlando, FL
Rivers Casino - Troy, NY
Hale Koa Hotel - Honolulu, HI
Silverado Resort and Spa - Napa, CA
Hapuna Beach Prince Hotel - Kamuela, HI
Westin Verasa Napa - Napa, CA
Westin Arlington Gateway - Arlington, VA
Hard Rock Hotel & Casino - Atlantic City, NJ
Hermitage Bay Resort - St. Mary's, Antigua
The Kartrite - Monticello, NY
Bahia Resort Hotel - San Diego, CA
Mohegan Sun Casino & Resort - Uncasville, CT

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Some of Our Customers



^ LEED Planters at Longhouse Reserve in NY.

v Audubon Double Bin in 3Form Beargrass at Chicago's Field Museum



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SPORTS/MUSEUM/PARKS/ENTERTAINMENT VENUES

Churchill Downs - Louisville, KY
Boston Red Sox, Fenway Park - Boston, MA
NFL Headquarters - New York, NY
Yankee Stadium - New York, NY
The Field Museum - Chicago, IL
Wright Brothers National Memorial - Kill Devil Hills, NC
Vizcaya Museum & Gardens - Miami, FL
LA Live/Staples Center - Los Angeles, CA
Knoxville Zoo - Knoxville, TN
Longhouse Reserve - East Hampton, NY
Riverbanks Zoo - Columbia, SC
Scottsdale National Golf Club - Scottsdale, AZ
City of Lapeer Community Center - Lapeer, MI
Fountain Square - Cincinnati, OH
City of Hickory - Hickory, NC
Cincinnati's Ziegler Park - Cincinnati, OH
Legoland - Carlsbad, CA
Red Butte Garden - Salt Lake City, UT
Museum of Fine Arts - Houston, TX

SHOPPING CENTERS

Regency Centers - CA and VA
Edens Shopping Centers - MA, VA, MD, SC and FL
Design 41 - Design District, Miami, FL
PCC Natural Markets - Seattle, WA
AT&T Center - Los Angeles, CA
Cross County Shopping Center - Yonkers, NY
Melville Mall - Melville, NY
5th St. Station - Charlottesville, VA
Shops at Stonefield - Charlottesville, VA

AIRPORTS/TRANSPORTATION CENTERS

Orlando International Airport, Domestic Terminal - Orlando, FL
Orlando International Airport, Intermodal Terminal - Orlando, FL
San Antonio International Airport - San Antonio, TX
Syracuse Hancock International Airport - N. Syracuse, NY
MBTA Mansfield Station - Mansfield, MA

EDUCATION

Princeton University - Princeton, NJ
Dartmouth College - Hanover, NH
Washington University - St. Louis, MO
Louisiana State Univ - Baton Rouge, LA
Loyola Marymount University - Los Angeles, CA
Cornell College - Mt. Vernon, IA
Bowling Green State Univ - Bowling Green, OH
University of Louisville - Louisville, KY
Villanova University - Villanova, PA
Rowan University - Glassboro, NJ
University of Georgia - Athens, GA
West Coast University - Los Angeles, CA
University of Minnesota-Duluth - Duluth, MN
University of Oregon - Eugene, OR
Florida Gulf Coast University - Fort Myers, FL
Pepperdine University - Malibu, CA
Humboldt State University - Arcata, CA
Drexel University - Philadelphia, PA