

Quick-Build Materials Toolbox for Bikeways

*Practical treatments for safer,
more inviting streets, right now.*



This toolbox is designed to help public agencies compare options and choose the right fit for their project goals.

This toolbox compares materials used in quick-build projects across the US, selected to reflect a range of budgets, schedules, and expectations for durability, maintenance, and aesthetics. The information is based on vendor documentation and interviews with cities that have implemented these treatments in practice.

Brand names and references to specific products, materials, or manufacturers are included for informational purposes only. Their inclusion does not imply endorsement by Fehr & Peers, nor exclusion of similar products or manufacturers. This information is provided in an objective, unbiased manner.

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CycleLane

Key Considerations

MINIMUM REQUIRED BUFFER

2 feet



ESTIMATED COST

\$85-95/unit
+ TAXES AND FEES



AESTHETICS



BIKE COMFORT



DURABILITY



REFLECTIVITY



Photo courtesy of TAPCO



Photo courtesy of TAPCO

Technical Specifications

MANUFACTURED BY

Traffic Logix (A TAPCO Brand)

WEIGHT

10 LB

DIMENSIONS

29.5" L x 4.75" W x 4" H

MATERIAL

Compression molded recycled rubber

ANCHORING

2-3 anchor points

DISTRIBUTOR LOCATION

California

DISTRIBUTOR CONTACT

Jim Merrill
jmerrill@trafficlogix.com
+1 (925) 784-7865

ADDITIONAL INFORMATION CAN BE FOUND AT

<https://trafficlogix.com/cycle-lane/>

Additional Notes

BIKE COMFORT

The elevated profile on the vehicle side prevents motorists from entering the bike lane, while the sloped profile on the bicyclist side gently guides cyclists back into the bike lane.

DURABILITY AND MAINTENANCE

Can be difficult to install. Reflective tape often needs to be replaced. When hit on 90 degree side (vehicle side), the product slightly lifts up from pavement and leans towards the bike lane side. Product is already pulling up after one year of installation in Kailua.

REFLECTIVITY

3.5" W x 20" L optional reflective highway tape along the top of the CycleLane

CITIES WITH THE PRODUCT INSTALLED

Kailua (Kalapawai), HI
Hamilton, Ontario
Alameda, CA
New York City, NY

Zebra Family®

Key Considerations

MINIMUM REQUIRED BUFFER

2 feet



ESTIMATED COST

Zebra 9

\$40-50/unit
+ TAXES AND FEES



Zebra 13

\$60-70/unit
+ TAXES AND FEES

AESTHETICS



BIKE COMFORT



DURABILITY



REFLECTIVITY

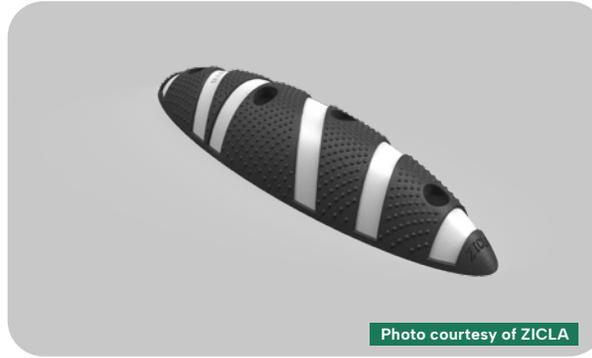


Photo courtesy of ZICLA



Photo courtesy of ZICLA Miami Beach

Technical Specifications

MANUFACTURED BY
ZICLA

WEIGHT
3-18.75 LB (VARYING SIZES)

DIMENSIONS
Zebra® 5: 32.3" L x 4.7" W x 2" H
Zebra® 9: 30.5" L x 6.5" W x 3.5" H
Zebra® 13: 32.3" L x 8.3" W x 5.1" H

MATERIAL
100% recycled plastic

ANCHORING
3 anchor points

DISTRIBUTOR LOCATION
Barcelona, Spain

DISTRIBUTOR CONTACT
Ramón Santiago
rsantiago@zicla.com
+34 932 242 731

ADDITIONAL INFORMATION CAN BE FOUND AT
<https://www.zicla.com/en/zebra-family/>

Additional Notes

BIKE COMFORT
Dependent on size of barrier. Larger ones are more of a physical barrier between travel lane and bike lane.

DURABILITY AND MAINTENANCE
Minimal. Replace as needed.

REFLECTIVITY
40% reflective surface

CITIES WITH THE PRODUCT INSTALLED
Houston, TX
San Luis Obispo, CA
New York City, NY
Fremont, CA

Zipper®

Key Considerations

MINIMUM REQUIRED BUFFER

2 feet



ESTIMATED COST

Zipper A (straight)

\$45-55/unit
+ TAXES AND FEES



Zipper B (curved)

\$35-45/unit
+ TAXES AND FEES

AESTHETICS



BIKE COMFORT



DURABILITY



REFLECTIVITY

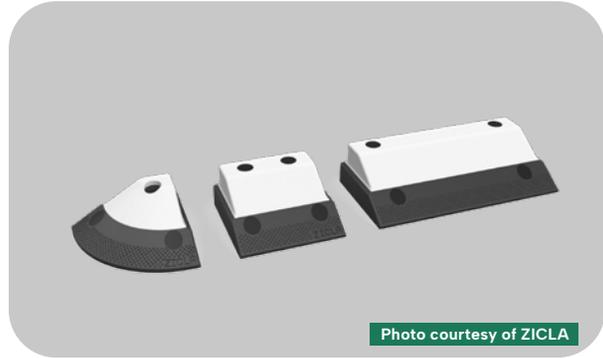


Photo courtesy of ZICLA



Photo courtesy of ZICLA Bentonville

Technical Specifications

MANUFACTURED BY

ZICLA

WEIGHT

7 LB 11 OZ (curved piece) and 11 LB 7 OZ (full square)

DIMENSIONS

Modular: 11" L x 11" W x 4.9" H (can have curved edge)

MATERIAL

100% recycled plastic

ANCHORING

4 anchor points per middle piece
3 per corner piece

DISTRIBUTOR LOCATION

Barcelona, Spain

DISTRIBUTOR CONTACT

Ramón Santiago
rsantiago@zicla.com
(+ 34 932242731)

ADDITIONAL INFORMATION CAN BE FOUND AT

<https://www.zicla.com/en/zipper-system/>

Additional Notes

BIKE COMFORT

Elevated profile on vehicle side prevents motorists from entering bike lane. Sloped profile on bike lane side provides gradual redirection for cyclists accidentally hitting the barrier.

DURABILITY AND MAINTENANCE

Debris may build up between modular units. Replace as needed.

REFLECTIVITY

50% of structure (top) is reflective

CITIES WITH THE PRODUCT INSTALLED

Bentonville, AR
New York City, NY

Precast Curb

Key Considerations



Technical Specifications

MANUFACTURED BY
Multiple

WEIGHT
Information unavailable

DIMENSIONS
Min. 2' wide, height and length is per design.

MATERIAL
Concrete

ANCHORING
Doweled

Additional Notes

BIKE COMFORT
If spaced closely, the curb acts similar to the sidewalk curb, significantly minimizing the likelihood of encroachment.

DURABILITY AND MAINTENANCE
Durable midblock. Consider using a traditional reinforced concrete detail at the intersections and other locations where frontal/high-impact collisions are likely.

Precast units will not be entirely flush with roadway and therefore may be prone to debris buildup.

CITIES WITH THE PRODUCT INSTALLED
Cupertino, CA
Seattle, WA

Construction Method	Lane Closure Requirements	Cost Considerations	Speed of Installation	Availability
Extruded Concrete	Two lane closure	Cost is per cubic yard of concrete	~3 blocks per week	Extrusion machine and custom form required
Cast in Place	Two lane closure	Cost is per cubic yard of concrete	~1 block per week	Contractors are most familiar with this construction method
Precast	One lane closure	Cost is per curb piece	~4 to 5 blocks per week	Inventory and proximity issues may occur

Pavement conditions: New asphalt and slurry seal required for each construction method.

Cast in Place Curb

Key Considerations

MINIMUM REQUIRED BUFFER
2 feet

ESTIMATED COST
\$2000-3000/unit*
MAY BE MORE COST EFFECTIVE FOR SMALLER PROJECTS COMPARED TO EXTRUDED CURB
* 50' x 2' unit

AESTHETICS

BIKE COMFORT

DURABILITY

REFLECTIVITY



Photo courtesy of Fehr & Peers

Technical Specifications

MANUFACTURED BY
Multiple

WEIGHT
Varies based on manufacturer and curb dimensions.

DIMENSIONS
Min. 2' wide, height and length is per design.

MATERIAL
Concrete

ANCHORING
Doweled

Additional Notes

BIKE COMFORT
If spaced closely, the curb acts similar to the sidewalk curb, significantly minimizing the likelihood of encroachment.

DURABILITY AND MAINTENANCE
Durable midblock. Consider using a traditional reinforced concrete detail at the intersections and other locations where frontal/high-impact collisions are likely.
Provide gaps between units to maintain drainage.

CITIES WITH THE PRODUCT INSTALLED
Santa Monica, CA
Cupertino, CA
Bethesda, MD

Construction Method	Lane Closure Requirements	Cost Considerations	Speed of Installation	Availability
Extruded Concrete	Two lane closure	Cost is per cubic yard of concrete	~3 blocks per week	Extrusion machine and custom form required
Cast in Place	Two lane closure	Cost is per cubic yard of concrete	~1 block per week	Contractors are most familiar with this construction method
Precast	One lane closure	Cost is per curb piece	~4 to 5 blocks per week	Inventory and proximity issues may occur

Pavement conditions: New asphalt and slurry seal required for each construction method.

Extruded Concrete Curb

Key Considerations

MINIMUM REQUIRED BUFFER

2 feet



ESTIMATED COST

\$2000-3000/unit*

MAY BE MORE COST EFFECTIVE FOR LARGER PROJECTS COMPARED TO CAST IN PLACE CURB

* 50' x 2' unit



AESTHETICS



BIKE COMFORT



DURABILITY



REFLECTIVITY

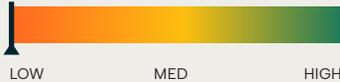


Photo courtesy of Fehr & Peers



Photo courtesy of Fehr & Peers

Technical Specifications

MANUFACTURED BY

Multiple

DIMENSIONS

Min. 2' wide, height and length is per design.

MATERIAL

Concrete

ANCHORING

Dependent on design

Additional Notes

BIKE COMFORT

The curb acts similar to the sidewalk curb, significantly minimizing the likelihood of encroachment.

DURABILITY AND MAINTENANCE

Highest durability and lowest maintenance for quick-build treatment.

CITIES WITH THE PRODUCT INSTALLED

Santa Monica, CA
Portland, OR

Construction Method	Lane Closure Requirements	Cost Considerations	Speed of Installation	Availability
Extruded Concrete	Two lane closure	Cost is per cubic yard of concrete	~3 blocks per week	Extrusion machine and custom form required
Cast in Place	Two lane closure	Cost is per cubic yard of concrete	~1 block per week	Contractors are most familiar with this construction method
Precast	One lane closure	Cost is per curb piece	~4 to 5 blocks per week	Inventory and proximity issues may occur

Pavement conditions: New asphalt and slurry seal required for each construction method.

Rubber Curb Stop

Key Considerations

MINIMUM REQUIRED BUFFER

2 feet



ESTIMATED COST

\$70-80/unit
+ TAXES AND FEES



AESTHETICS



BIKE COMFORT



DURABILITY



REFLECTIVITY



Photo courtesy of Adobe Stock

Technical Specifications

MANUFACTURED BY
ULINE

WEIGHT
20 LB

DIMENSIONS
72"L x 6"W x 4"H

MATERIAL
Rubber

ANCHORING
4 anchor points

DISTRIBUTOR LOCATION
Pleasant Prairie, WI

DISTRIBUTOR CONTACT
customer.service@uline.com
+1 (800) 295-5510

ADDITIONAL INFORMATION CAN BE FOUND AT
<https://www.uline.com/Product/Detail/H-4608B%7EY/Parking-Lot-Safety/Parking-Stops-6-Rubber-Black-Yellow?model=H-4608B/>

Additional Notes

BIKE COMFORT

The elevated profile minimizes encroachment. The profile is the same on both sides, lacking the benefits of other products that have a gentler slope on one side for cyclists.

DURABILITY AND MAINTENANCE

Highly durable. Minimal maintenance needed.

CITIES WITH THE PRODUCT INSTALLED

Santa Monica, CA
Seattle, WA

K-71 Flexible Post

Key Considerations

MINIMUM REQUIRED BUFFER

2 feet



ESTIMATED COST

\$110 to \$120/unit

+ TAXES AND FEES EXCLUDING ANCHORING MATERIALS



AESTHETICS



BIKE COMFORT



DURABILITY



REFLECTIVITY



Technical Specifications

MANUFACTURED BY
US Reflector

WEIGHT
5 LB

DIMENSIONS
4 models: 3-8" W x 15-40" H

MATERIAL
Blend of polyethylene and UV inhibitors

ANCHORING
1 anchor point

DISTRIBUTOR LOCATION
Newington, CT

DISTRIBUTOR CONTACT
Nicole Kemp
Nicole@endotocorp.com
+1 (860) 289-8033

ADDITIONAL INFORMATION CAN BE FOUND AT
<https://www.usreflector.com/product/k71-flexible-traffic-post/>

Additional Notes

BIKE COMFORT

Serves as a visual cue to drivers, but is designed to allow vehicles to run over the product with no to minimal damage.

DURABILITY AND MAINTENANCE

Regular maintenance and replacements needed.

REFLECTIVITY

2 wide-reflective collars

CITIES WITH THE PRODUCT INSTALLED

Los Angeles, CA
San Jose, CA
Fremont, CA

K-72 Flexible Post

Key Considerations

MINIMUM REQUIRED BUFFER

2 feet



ESTIMATED COST

\$130-140/unit
+ TAXES AND
FEES EXCLUDING
ANCHORING
MATERIALS



AESTHETICS



BIKE COMFORT



DURABILITY



REFLECTIVITY

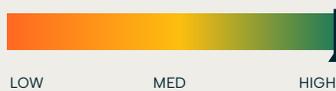


Photo courtesy of Fehr & Peers

Technical Specifications

MANUFACTURED BY
US Reflector

WEIGHT
Information unavailable

DIMENSIONS
30" tall 10" diameter base

MATERIAL
Blend of polyethylene and UV inhibitors

ANCHORING
One anchor point

DISTRIBUTOR LOCATION
Newington, CT

DISTRIBUTOR CONTACT
Nicole Kemp
Nicole@endotocorp.com
+1 (860) 289-8033

ADDITIONAL INFORMATION CAN BE FOUND AT
<https://www.usreflector.com/product/k72-flexible-style-traffic-post/>

Additional Notes

BIKE COMFORT
Serves as a visual cue to drivers, but is designed to allow vehicles to run over the product with no to minimal damage.

DURABILITY AND MAINTENANCE
Regular maintenance and replacements needed.

CITIES WITH THE PRODUCT INSTALLED
Los Angeles, CA,
West Hollywood, CA

Narrow Cycle Lane Defenders

Key Considerations

MINIMUM REQUIRED BUFFER

2 feet



ESTIMATED COST

\$360-400/unit
+ TAXES AND FEES



AESTHETICS



BIKE COMFORT



DURABILITY



REFLECTIVITY



Photo courtesy of Rosehill Highways



Photo courtesy of Rosehill Highways

Technical Specifications

MANUFACTURED BY

Multiple (e.g., Rosehill Highways, US Reflector, Zumar)

WEIGHT

53-133 LB (VARYING SIZES)

DIMENSIONS

End Section: 78.7" L x 9.3" W x 5" H
 Continuation Unit: 78.7" L x 9.3" W x 5.1" H
 Double End: 78.7" L x 9.3" W x 5.1" H
 NCLD Lite: 39.4" L x 9.3" W x 5.1" H

MATERIAL

100% recycled tire rubber

ANCHORING

4 anchor points

DISTRIBUTOR LOCATION

Various

Additional Notes

BIKE COMFORT

Minimizes likelihood of encroachment of vehicles and reflective posts provide visual cue to drivers.

DURABILITY AND MAINTENANCE

Dependent on environment (leaves, debris build-up). Impact-resistant.

REFLECTIVITY

Large glass eyes molded into the ends of the unit and can be furnished with reflective posts for increased visibility.

CITIES WITH THE PRODUCT INSTALLED

Los Angeles, CA
 New York City, NY

RailScreen

Key Considerations

MINIMUM REQUIRED BUFFER

2 feet



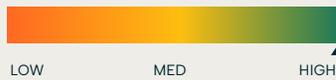
ESTIMATED COST

\$410-450/
panel

+ TAXES AND
FEES DEPENDING
ON DESIGN
COMPLEXITY



AESTHETICS



BIKE COMFORT



DURABILITY



REFLECTIVITY



Photo courtesy of DeziignLine



Photo courtesy of DeziignLine

Technical Specifications

MANUFACTURED BY

DeziignLine (Product available in US and Canada only)

WEIGHT

Information unavailable

DIMENSIONS

36" tall, mounted on top of BikeRails

MATERIAL

Powder coat galvanized steel rail and panels

ANCHORING

Anchored at joints (2 anchors per joint)

DISTRIBUTOR LOCATION

Minneapolis, MN

DISTRIBUTOR CONTACT

Susan Altenbach, President
susan@deziignline.com
+1 (877) 944-8900

ADDITIONAL INFORMATION CAN BE FOUND AT

<https://deziignline.com/protected-bikeway-pedestrian-products/railscreen/>

Additional Notes

BIKE COMFORT

Curb minimizes likelihood of encroachment of vehicles and bollards provide visual cue to drivers.

DURABILITY AND MAINTENANCE

Steel rail is very durable. Replacement needed only after significant crash.

CITIES WITH THE PRODUCT INSTALLED

Charlotte, NC
Fort Collins, CO

Tuff Curb

Key Considerations

MINIMUM REQUIRED BUFFER

2 feet

LOW MED HIGH

ESTIMATED COST

Tuff Curb

\$170-180/unit
+ TAXES AND FEES

LOW MED HIGH

End Caps

\$85-95/unit
+ TAXES AND FEES

AESTHETICS

LOW MED HIGH

BIKE COMFORT

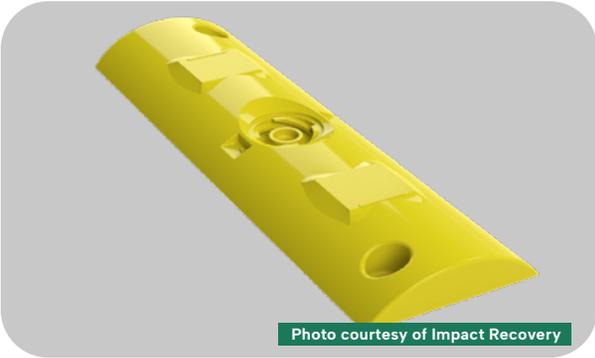
LOW MED HIGH

DURABILITY

LOW MED HIGH

REFLECTIVITY

LOW MED HIGH



Technical Specifications

MANUFACTURED BY
Impact Recovery

WEIGHT
Curb section - 12 LB
Optional end section - 4 LB

DIMENSIONS
Curb section - 40" L x 12.5" W x 3.5" H
Optional end cap - 18" L x 3.5" W x 2" H

MATERIAL
Injection molded polyethylene

ANCHORING
3 anchor points

DISTRIBUTOR LOCATION
San Antonio, TX

DISTRIBUTOR CONTACT
Gregg Ubelhart
Gubelhart@impactrecovery.com
+1 (800) 736-5256

ADDITIONAL INFORMATION CAN BE FOUND AT
<https://www.impactrecovery.com/products/tuff-curb/>

Additional Notes

BIKE COMFORT
Alerts and prevents motorists from veering out of the travel lane. The gradual slope of the curb makes the curb less useful for minimizing encroachment, but does increase the durability of the product. Tuff Curbs are higher profile than Tuff Curb XLPs, and recommended for the highest-conflict areas.

DURABILITY AND MAINTENANCE
Tuff Curb is secure and needs minimal maintenance. Bollards may need to be replaced more regularly.

REFLECTIVITY
2 reflective square markers on the base.

CITIES WITH THE PRODUCT INSTALLED
New York, NY

Tuff Curb XLP (with delineators)

Key Considerations

MINIMUM REQUIRED BUFFER

2 feet

LOW MED HIGH

ESTIMATED COST

XLP Only

\$80-90/unit
+ TAXES AND FEES

LOW MED HIGH

XLP with Omega Post

\$135-145/unit
+ TAXES AND FEES

AESTHETICS

LOW MED HIGH

BIKE COMFORT

LOW MED HIGH

DURABILITY

LOW MED HIGH

REFLECTIVITY

LOW MED HIGH



Technical Specifications

MANUFACTURED BY
Impact Recovery

WEIGHT
6.5 LB (FOR 40" CURB SECT.)

DIMENSIONS
40" L x 8" W x 2" H

MATERIAL
Injection-molded polyethylene (single piece)

ANCHORING
2-3 anchor points

DISTRIBUTOR LOCATION
San Antonio, TX

DISTRIBUTOR CONTACT
Gregg Ubelhart
Gubelhart@impactrecovery.com
+1 (800) 736-5256

ADDITIONAL INFORMATION CAN BE FOUND AT
<https://www.impactrecovery.com/products/tuff-curb-xlp/>

Additional Notes

BIKE COMFORT
Alerts and prevents motorists from veering out of the travel lane. The gradual slope of the curb makes the curb less useful for minimizing encroachment, but does increase the durability of the product. XLPs are a lower profile than Tuff Curbs, which reduces impact if bikes hit them.

DURABILITY AND MAINTENANCE
Tuff Curb XLP is secure and needs minimal maintenance. Bollards may need to be replaced more regularly.

REFLECTIVITY
Part of the base and reflective collar around the delineator post.

CITIES WITH THE PRODUCT INSTALLED
Portland, OR
Seattle, WA

"Toronto" Barriers

Key Considerations

MINIMUM REQUIRED BUFFER
2 feet

LOW MED HIGH

ESTIMATED COST
\$400/unit
+ TAXES AND FEES

LOW MED HIGH

AESTHETICS

LOW MED HIGH

BIKE COMFORT

LOW MED HIGH

DURABILITY

LOW MED HIGH

REFLECTIVITY

LOW MED HIGH



Photo courtesy of Fehr & Peers

Technical Specifications

MANUFACTURED BY
Multiple

WEIGHT
1675 LB

DIMENSIONS
10'L x 18"W x 18"H (approximately)

MATERIAL
Concrete

ANCHORING
None

Additional Notes

BIKE COMFORT
Vertical height virtually eliminates likelihood of encroachment by vehicles.

DURABILITY AND MAINTENANCE
Highest durability and lowest maintenance for quick-build treatments.

CITIES WITH THE PRODUCT INSTALLED
Boulder, CO
Toronto, Canada

K-Rail

Key Considerations

MINIMUM REQUIRED BUFFER

30 inches



ESTIMATED COST

Varies/unit



AESTHETICS



BIKE COMFORT



DURABILITY



REFLECTIVITY

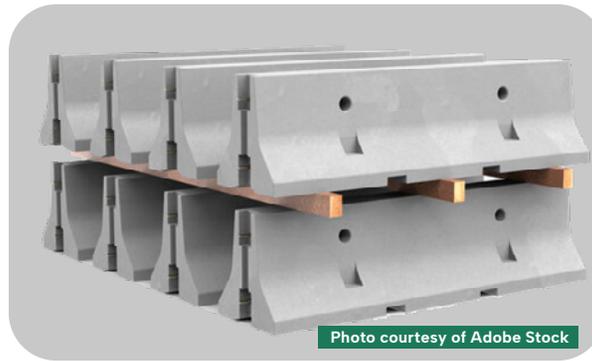


Photo courtesy of Adobe Stock



Photo courtesy of Adobe Stock

Technical Specifications

MANUFACTURED BY
Multiple

WEIGHT
Varies

DIMENSIONS
20'L x 24"W x 32"H

MATERIAL
Concrete

ANCHORING
None

Additional Notes

BIKE COMFORT

If spaced closely, the K-Rail acts similar to the sidewalk curb, significantly minimizing the likelihood of encroachment.

DURABILITY AND MAINTENANCE

Highly durable. Any custom wrap may need to be replaced more regularly due to graffiti and sun damage.

CITIES WITH THE PRODUCT INSTALLED

- Burbank, CA
- New York City, NY
- Seattle, WA

SteelGreen Planters

Key Considerations

MINIMUM REQUIRED BUFFER

30 inches



ESTIMATED COST

Galvanized

\$1300-1400/unit

+ TAXES AND FEES



Powder-coat color

\$1800-\$1900/unit

+ TAXES AND FEES

AESTHETICS



BIKE COMFORT



DURABILITY



REFLECTIVITY



Photo courtesy of DeziignLine



Photo courtesy of DeziignLine

Technical Specifications

MANUFACTURED BY

DeziignLine (Product available in US and Canada only)

WEIGHT

220 LB (empty), ~ 520 LB (full soil load)

DIMENSIONS

48" L x 24" W x 25" H

MATERIAL

Powder coat galvanized steel

ANCHORING

Anchor-ready

DISTRIBUTOR LOCATION

Minneapolis, MN

DISTRIBUTOR CONTACT

Susan Altenbach, President
susan@deziignline.com
+1 (877) 944-8900

ADDITIONAL INFORMATION CAN BE FOUND AT
<https://deziignline.com/protected-bikeway-pedestrian-products/steelgreen-planters/>

Additional Notes

BIKE COMFORT

If anchored, the planters provide significant protection.

DURABILITY AND MAINTENANCE

Water reservoir needs to be refilled regularly (every ~2 weeks depending on weather and plant species).

CITIES WITH THE PRODUCT INSTALLED

Bellevue, WA

OPTIONAL ADD-ONS

Optional Hand Rails

\$250/unit

+ TAXES AND FEES

Optional Reservoirs

\$350/21 gal

+ TAXES AND FEES

Optional Reservoirs

\$130/2.5 gal

+ TAXES AND FEES

Optional Foot Rest

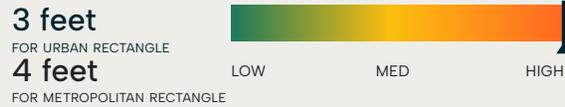
\$145/unit

+ TAXES AND FEES

Self-Watering Planters

Key Considerations

MINIMUM REQUIRED BUFFER



ESTIMATED COST



AESTHETICS



BIKE COMFORT



DURABILITY



REFLECTIVITY



Technical Specifications

MANUFACTURED BY
EarthPlanter

WEIGHT
Information unavailable

DIMENSIONS
Urban Rectangle: 40”L x 22”W x 24”H
Metropolitan Square: 32”L x 32”W x 26”H 24”L x 24”W at base
Metropolitan Rectangle: 40”L x 22”W x 24”H

MATERIAL
Polyethylene (LLDPE) Resin, Rotationally Molded for high durability. UV Inhibitors embedded, and winterized

ANCHORING
None

DISTRIBUTOR LOCATION
Auburn, NY

DISTRIBUTOR CONTACT
Jack Burgmaster
jburgmaster@earthplanter.com
sales@earthplanter.com
+1 (877) 815-9276

ADDITIONAL INFORMATION CAN BE FOUND AT
<https://earthplanter.com/>

Additional Notes

BIKE COMFORT
Bike comfort varies based on what additional materials the planters are paired with. Planters should not be used alone and should instead be paired with some vertical element and/or curb.

DURABILITY AND MAINTENANCE
Refill water reservoir regularly (every ~2 weeks between watering cycles depending on weather and plant species).

CITIES WITH THE PRODUCT INSTALLED
Atlanta, GA
Bethesda, MD
Bozeman, MT
Denver, CO
Detroit, MI
Lincoln, NE
Oakland, CA
Phoenix, AZ
Sacramento, CA
San Antonio, TX
San Francisco, CA
Santa Monica, CA
Tulsa, OK

Implementation Considerations

The following implementation considerations, informed by case study interviews and built examples, should be reviewed when selecting a preferred buffer treatment.

BUFFER TREATMENT SPACING

- Most jurisdictions start with 10'–20' spacing on center for urban arterials.
- Consider tighter spacing closer to intersections or driveways, where auto encroachment may be more prevalent.
- Consult with engineering staff on drainage and maintenance considerations for closely spaced buffer treatments.
- Design speed of the corridor may also influence treatment spacing. Larger spacing between treatments may be appropriate on higher speed roadways.

COMBINING TREATMENTS

- Low-profile curb treatments are typically more durable than flex posts and other vertical elements, while flex posts are typically more visible than curbs alone. Consider combining curb and vertical elements for a more durable, visible buffer treatment.

BUS ONLY LANE APPLICATIONS OF BUFFER TREATMENTS

- Raised buffer treatments can be used at intersections to deter encroachment of turning vehicles into the bus lanes.
- Midblock locations may also be suitable for raised buffer treatments, with consideration given to emergency vehicle access and bus bypassing of temporary obstructions in the bus lane. This may be best accommodated with flex posts or mountable curb products.

MAINTENANCE

- Consider more durable or reinforced treatments at locations where head-on or high-impact collisions with the buffer treatments are more likely, such as at intersections, to minimize ongoing maintenance costs. For example, pair flexible posts with a curb treatment, or invest in reinforced concrete similar to a median nose at those locations over pre-cast or fabricated plastic elements. Pair end treatment with reflective device for enhanced visibility.
- Consider ordering 20–50% extra product for ongoing maintenance, depending on the durability of the treatment.

ACCESSIBILITY CONSIDERATIONS

- Always aim for a 5' buffer for parking-protected bike lanes so that the buffer space can be used as an access aisle from accessible parking spaces.
- Particularly with lower-profile treatments, consider the potential tripping hazards for visually impaired pedestrians.
- Do not continue the treatment through the crosswalk or bus boarding island to aid in navigability for users who require mobility devices.

Have questions or want to explore options
for your community? *Let's talk.*



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Quick-Build Materials Toolbox for Bikeways

