

## SELECTA High Performance Curb Units



The SELECTA curb unit is the professionals' solution to the problem of draining rainwater. SELECTA units have been designed to provide high water capacity and easy access in curbside drainage applications. They incorporate several innovative features that facilitate maximum water absorption, minimize problems with debris, and enhance safety for pedestrians and cyclists. Made from ductile iron — an engineered material that offers many advantages over traditional cast iron — SELECTA curb units deliver excellent performance in all the key areas of concern to municipal engineers. There are two SELECTA designs:

- SELECTA Maxi — height-adjustable unit available in T- and A-profiles.
- SELECTA 500 — standard unit available in T- and A-profiles.

There are over 6 million PAM units in the ground around the world utilizing technically advanced materials and engineering. Our focus on the needs of the end-user — rather than developing products merely to meet a minimum performance standard — led us to ductile iron, a superior alternative to cast iron in terms of weight, strength and designability.

### Highlights

- Elasticity of ductile iron facilitates locking of the cover and grating (patented system)
- Adjustable to pavement level
- Ductile iron
- Class D400 EN 124
- Exceeds H20 AASHTO loading
- Impact resistant

#### SCREENING OF DEBRIS

The presence of a raised bar prevents larger pieces of debris carried by run-off water from entering the gully, helping to keep the sewer system clear.

#### AUTOMATIC LOCKING

Ductile iron spring bar is integral with grate and cover.

#### DRAINAGE

In the lower section of the gutter, the bars are arranged longitudinally in order to maximize water drainage. Simulations carried out on a test bench show increases of between 10% and 15% in absorption in certain circumstances, compared with a traditional design consisting of a rectangular grating and a gully.

#### SAFETY FOR PEDESTRIANS

On the pavement side, the elimination of hinge system clearance and roughness on the surface of the cover ensure safety for pedestrians.

#### SAFETY FOR CYCLISTS

On the street side, the bars are perpendicular to the direction of traffic in order to ensure safety for cyclists.

#### ADJUSTABILITY

Three bolts allow height adjustment (up to 2 inches) of the cover frame with respect to the curb.

#### ANTI-OBSTRUCTION

The surfaces of the bars are equipped with facets that are oriented to help prevent leaves and litter from blocking the drain.



### PAM Access Covers, Curb Units and Gratings.

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For more information call 1-877-351-3323, or refer to the PAM general presentation brochure or specific product brochures shown below.



#### Additional literature:



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### ASK ABOUT OUR OTHER CERTAINTEED PRODUCTS:

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CTPAM-0005R2-5M-SGCS-S0



Access Covers and Gratings

## SELECTA Curb Units

- LOAD BEARING 55,000 LBS
- ONE-MAN OPERABLE
- HIGH WATER CLEARING CAPACITY
- ANTI-THEFT/SECURITY



CertainTeed  
Quality made certain. Satisfaction guaranteed.<sup>1</sup>

## Advanced Design

SELECTA curb units have been developed to complement the technically advanced range of municipal castings now available to the U.S. market from CertainTeed.

- The units embody decades of industrial know-how in the design of safe, durable and efficient municipal castings.
- International product development experience in matching user needs with performance benefits has been applied to SELECTA units.
- Manufactured from ductile iron, SELECTA units feature easy access and high water capacity, providing advanced solutions for today's public works departments, engineers and maintenance personnel.



SELECTA Maxi A-profile with raised selector bar grating in the open position.

## Strength

Ductile iron is a high performance engineered material that provides a quantum leap in performance compared to traditional materials.

- Use of ductile iron dramatically reduces the weight of the unit without sacrificing the strength and durability of the casting.
- Provides high resistance to traffic shock, particularly curb impact situations, road repair and chamber cleaning.
- Exceeds the AASHTO (American Association of State Highway and Transportation Officials) H20 heavy duty load resistance requirement.

## Maintenance

Routine maintenance and cleaning can be time-consuming and awkward. The SELECTA unit is designed to speed up the process and allow easy access to personnel and all cleaning equipment.

- Independent opening of cover and grating (see photo below left) provides wide, clear opening.
- Easy opening of unit helps ensure efficient use of work time.

## Ergonomics

SELECTA curb units are designed to be ergonomically positive — that is, easy for one person to open and operate, with no special lifting equipment necessary.



- The lightweight units significantly reduce the effort required to open for routine maintenance and cleaning.
- Grating and curb lid open independently, and once open can be easily removed by hand.

## Hydraulic Capacity

SELECTA units are designed to maximize water absorption in the curb line.

- Use of ductile iron design allows slot configuration that ensures maximum available water-clearing area.
- Raised bar in curb area prevents large debris from entering storm sewer.
- Grating is designed with dual-bar orientation and raised studs to maximize water capture.



## Safety

SELECTA curb units are designed to maximize safety for pedestrians and cyclists, as well as maintenance personnel.

- The ductile iron unit is significantly lighter than similar designs constructed with traditional materials, greatly reducing the risk of injury through manual material handling (MMH) during both installation and routine maintenance.



SELECTA 500 A-profile

- The open cover and grating can be blocked open at a 90° angle.
- The closed unit is automatically locked in place, eliminating the risk of accident for pedestrians and cyclists.



SELECTA 500 T-profile

## Stability and Security

SELECTA units are automatically locked in place when closed by a spring bar mechanism.



SELECTA Maxi T-profile

- The spring bar prevents unauthorized access and deters the dumping of unwanted waste.
- Stability in high-traffic areas is ensured; the spring bar restricts movement, reducing wear and noise.

## Quality Assurance

The SELECTA curb unit has been designed and manufactured within a certified ISO 9000 quality management system, certified by an independent, internationally recognized third party.



SELECTA Maxi A-profile

- Extensive field testing, including heavy traffic situations.
- Laboratory testing and hydraulic capacity testing.

### Specification

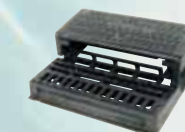
- SELECTA or similar approved Curb Unit and Frame.
- Units shall be manufactured from Ductile Iron in accordance with ISO 1083.
- Units shall be able to exceed H20 loading, capable of withstanding 55,000 lbs. test loading.
- Gratings and Covers shall incorporate non-captive hinge system.
- Gratings and Covers shall be non-rocking and silent in operation.
- Grating and Cover shall incorporate spring bar locking mechanism to act as a deterrent to unauthorized access. The spring bar should automatically lock when the Grating and Cover are properly closed.
- Units shall be designed to allow independent opening of Gratings and Covers.
- Specification of size and profile will be required (see product descriptions).
- All components shall be black coated.
- Product shall be manufactured in ISO 9000 certified manufacturing plants.

## The SELECTA Range

### SELECTA Maxi Level adjustment and maximum capacity.



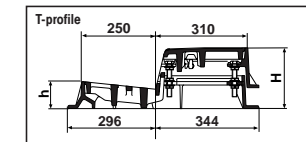
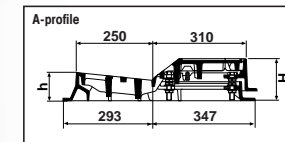
SELECTA Maxi A-profile with raised selector bar grating



SELECTA Maxi T-profile with raised selector bar grating

- SELECTA Maxi curb units are designed for mixed roadway/pavement installation, providing maximum water capacity.

- Height adjustment design, using three adjustment bolts integrated into the frame, aids installation and ensures curb line compatibility.



CURB PROFILE	REFERENCE	MASS (LBS)				DIMENSIONS (INCHES)				WATERWAY AREA (SQ. INCHES)
		TOTAL	GRATING	COVER	RAISED SECTION AND FRAME	OVERALL	DEPTH H/H	EFFECTIVE OPENING	DEPTH ADJUSTMENT	
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A	ECSE75SFX11	190	55	49	86	25 x 29-1/2	6/3-1/2	21 x 18	4/5	145 to 166

### SELECTA 500 Compact design with high water capacity.



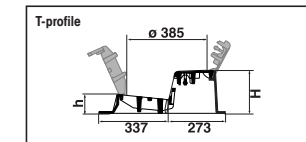
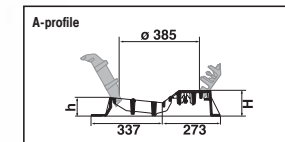
SELECTA 500 T-profile with raised selector bar grating



SELECTA 500 A-profile with raised selector bar grating

- SELECTA 500 curb units are designed for mixed roadway/pavement installation, providing high water capacity.

- Standard height design for easy and quick installation.
- Broad-soled frame for effective seating on concrete structures.



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SELECTA Maxi A-profile with raised selector bar grating in the open position.



## Strength

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SELECTA 500 A-profile

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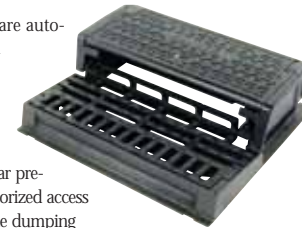
SELECTA 500 T-profile

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## Stability and Security

SELECTA units are automatically locked in place when closed by a spring bar mechanism.



SELECTA Maxi T-profile

- The spring bar prevents unauthorized access and deters the dumping of unwanted waste.
- Stability in high-traffic areas is ensured; the spring bar restricts movement, reducing wear and noise.

## Quality Assurance

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SELECTA Maxi A-profile

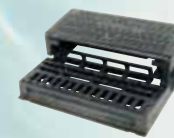
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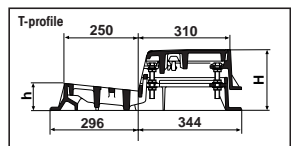
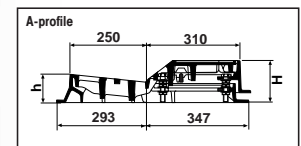
SELECTA Maxi A-profile with raised selector bar grating



SELECTA Maxi T-profile with raised selector bar grating

- SELECTA Maxi curb units are designed for mixed roadway/pavement installation, providing maximum water capacity.

- Height adjustment design, using three adjustment bolts integrated into the frame, aids installation and ensures curb line compatibility.



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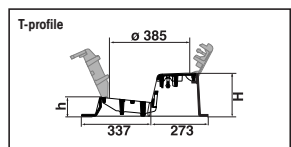
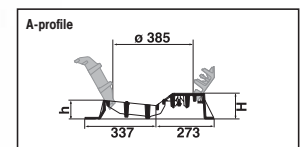
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SELECTA 500 A-profile

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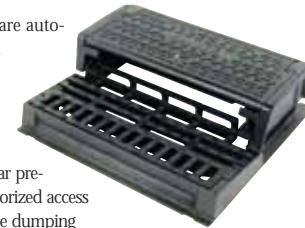
SELECTA 500 T-profile

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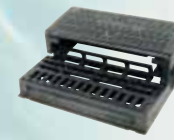
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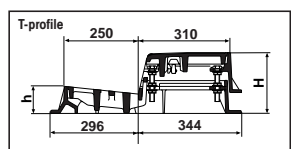
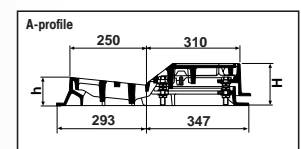
SELECTA Maxi A-profile with raised selector bar grating



SELECTA Maxi T-profile with raised selector bar grating

- SELECTA Maxi curb units are designed for mixed roadway/pavement installation, providing maximum water capacity.

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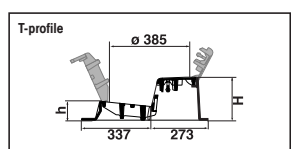
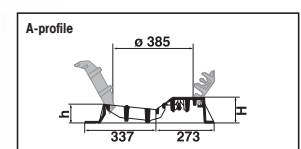
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#### DRAINAGE

In the lower section of the gutter, the bars are arranged longitudinally in order to maximize water drainage. Simulations carried out on a test bench show increases of between 10% and 15% in absorption in certain circumstances, compared with a traditional design consisting of a rectangular grating and a gully.

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Valley Forge, PA 19482

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**CertainTeed**

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CertainTeed  
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Access Covers and Gratings

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### PAM Access Covers, Curb Units and Gratings.

CertainTeed has an extensive network of agents and distributors, which ensures that products and technical advice are always available locally.

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#### Additional literature:



PAM General Brochure



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