



*FG 300 Interstate Grade Curb System*



*FG 300 Turnpike Grade Curb System*

# FG 300 CURBS<sup>®</sup>

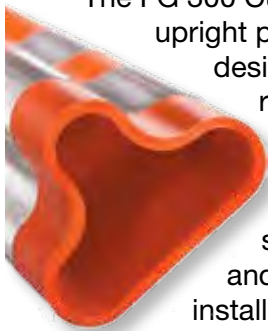
Modular Lane Separator Curb Systems



# FG 300 Curb Systems®



## FG 300 Model EFX Channelizer Post - The “Bullet Proof” Post



The FG 300 Curb features extremely durable upright posts, utilizing a unique clover-leaf design for better rebound than simple round tubes. All models of our channelizer posts are designed for the rigors of the field. The FG 300 model EFX post is 65% stronger and designed to hold up and rebound in the most challenging installations. The EFX post is so tough it was the first post with a 1-year limited warranty!

### Benefits include:

- Improved channelization of traffic
- Proven safety and performance
- Low cost and low maintenance
- Outstanding durability and quality
- Enhanced driver safety
- No special tools or equipment needed for installation
- Numerous highway, rail and traffic calming applications
- FG 300 EFX posts support optional vertical panels
- 5-year limited warranty on curb, 1-year limited warranty on EFX posts

## *A breakthrough in channelization*

The FG 300 Curb Systems are MASH-tested FHWA passive traffic control devices consisting of modular raised curb sections and the toughest channelizer posts on the market! The systems are designed for use in areas where pavement markings are not sufficient to provide safe channelization. Utilizing FG 300 Curb Systems can dramatically improve traffic safety in locations where traffic hazards are a problem.

Our curb systems are built rock solid with superior engineering resins to endure multiple high-speed impacts and the rigors of years in the field. The radial rib structure of the curb provides over 10,000 pounds of crush strength. The FG 300 EFX channelizer posts are simply unmatched in resilience – the EFX post is left still standing after other posts have failed. Combining the curb unit and the EFX post into one easy to install curb system results in an incredibly tough channelization system that will improve traffic safety where you need it most.

### Lowest Maintenance and Low Cost

The curb unit features an optimal blend of durability, color conspicuity, reflectivity and low maintenance. The solid color throughout requires no painting, thereby reducing maintenance costs. The tough, flexible polyurethane plastic used in our FG 300 Model EFX channelizer post provides the greatest rebound of any flexible polymer. This allows our posts to be struck repeatedly and rebound to an upright position, even at speeds over 60 mph!



## One piece construction utilizes UV stable, high impact engineering polymers and solid color throughout:

- Superior durability
- Low maintenance – no painting required
- Curb sections withstand 10,000 lbs of loading
- Nests with adjacent curb section (IG)
- 5-year limited warranty

## Proven safety & proven performance:

- NTPEP tested (FG 300 Posts)
- NCHRP 350 and MASH tested at 60 mph

## FG 300 upright posts placed every 3 feet:

- Dramatic picket fence effect creates strong psychological barrier for drivers
- Enhanced channelization vs. single posts alone
- High-visibility colors provide improved visual target for drivers

## Narrow Design:

- Smaller footprint than concrete barrier, preserves lane width
- Fully mountable by emergency vehicles
- Can be installed on bridge decks using Adhesive 795A
- Unique design allows for curved installations, even roundabouts

- Improved Traffic Channelization
- Proven Safety and Performance
- Low Cost and Low Maintenance
- Outstanding Durability & Quality
- Enhanced Driver Safety
- No Special Tools or Equipment Needed for Installation
- Numerous Highway, Rail and Traffic Calming Applications
- FG 300 EFX Posts Support Optional Vertical Panels
- 5-Year Warranty on Curb, 1-Year Warranty on EFX Post

## Built-in reflective lenses:

- Improved visibility at night and during dangerous wet conditions

## System features the FG 300 EFX Channelizer Post:

- Virtually indestructible post resists tearing and puncturing
- 1 year limited warranty
- Made from polyurethane alloy with very high tensile and elongation properties

## No special equipment or tools required for installation

- Simple to install
- Just minutes per curb section
- ✓ Withstands multiple high-speed impacts (60 MPH / 100 KM/H)
- ✓ Innovative anchor bolt system allows for rapid installations
- ✓ Lower installation costs due to simplicity of design
- ✓ Modular construction allows easy replacement of worn parts
- ✓ Fully mountable, offers minimal resistance to emergency vehicles and meets AASHTO standards for mountable separators

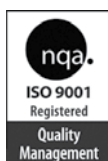
Choose between two innovative and highly durable lane separators from Pexco: Interstate Grade or Turnpike Grade System.



1st Place Winner  
“Innovation of  
the Year”  
ATSSA Traffic  
Expo 2006



Pexco® is a leading  
manufacturer of  
recycled traffic  
control products



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material specifications or  
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# Interstate Grade (IG) Curb System

The FG 300 Interstate Grade Curb continuous lane separation system provides efficient, cost effective channelization of traffic on freeways, tollways, city streets, parking facilities and rail/highway crossings.



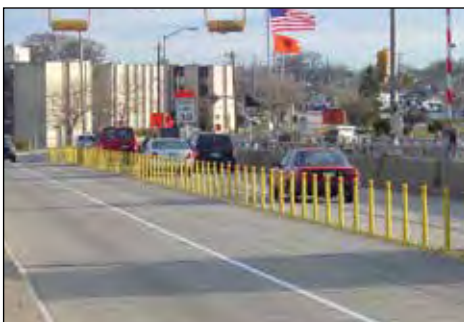
## Interstate Grade Curb System

- One piece construction utilizes high impact polymers and solid color throughout
- Designed to be linked in continuous applications
- Narrow design creates much smaller footprint than concrete barrier and fully mountable by emergency vehicles
- Superior durability – Curbs withstand 10,000 pounds of loading – FG 300 EFX and UR Posts withstand 50 impacts at 60 MPH
- Proven safety and performance - FHWA approved, MASH and NCHRP 350 tested at 60 mph/100 km/h



## Endless applications

- 2-way 2-lane detours
- Fast food drive through lanes
- At-grade railroad crossings
- Curved installations
- Bridge decks
- Toll plazas
- Impact attenuator protection
- Off ramps and merges
- Acceleration lanes
- Restricted Access
- Detours



4 Bridge decks

Restricted access

Merge lanes

# Turnpike Grade (TG) Curb System

The FG 300 Turnpike Grade Curb features individual low profile curb sections with a single polyurethane post design for unobstructed retro-reflectivity and an extremely durable platform for high speed applications.

## Modular Lane Separation System

The FG 300 Turnpike Grade Curb System is a raised lane separator with durable upright channelizer posts that provide efficient and cost-effective channelization of traffic on Managed Lanes, 2-way 2-lane Work Zones, and other areas where discontinuous channelization is preferred.

The Turnpike Grade Curb consists of individual curb sections so tough they carry a **5 Year Warranty** and upright polyurethane channelizers so tough they were the **first Channelizers in the world to carry a 1-year warranty against breakage.**

MASH tested at 60 MPH at Texas A & M Transportation Institute, and NCHRP 350 accepted by the US/DOT FHWA.

## Turnpike Grade Curb Separators

- Divide lanes going in same or opposite directions
- Features engineering polymer alloys for superior toughness at temperature extremes
- Engineered to stand up to the toughest of conditions
- For high speed, high volume applications where continuous curb is too costly or not required
- Use where pavement markings alone are not sufficient to safely channelize traffic



## Turnpike Grade Curb Applications

- HOT and HOV Lane Installations
- 2-way 2-lane detours on Interstate rehab projects
- Divided highway entrance/exits
- Cross-over prevention

## Stable Platform for High Speed Installations

- Low-profile base for low-impact roll over
- Smooth transition from road surface – no hard lines
- Designed to eliminate vehicle vaulting

## Superior Retro-Reflectivity

- Curb leading edge has an imbedded cube corner reflective lens
- Reflectivity meets ATSM D-4280 for raised pavement markers
- Optional glass bead road stud
- Low profile design on both ends for 2-way applications
- Available in White, Yellow and Fluorescent Orange
- Features the incredibly tough FG 300 Model EFX post
- Accepts all grades of FG 300 posts: PE, UR and EFX



Impact attenuation protection



Merge lanes



Work zone delineation

# Widely Used

## Key Installations

Agency/Road Authority	Location	Application
California DOT	Interstate 80 San Francisco Bay Bridge	Toll Booth Lane Separation
Missouri DOT	Columbia, Jefferson City, Springfield & Fulton Districts	Merge Lanes, Merge Installations, Acceleration Lanes
North Carolina DOT	Highway 301 @ Rocky Mount	Turn Restriction
Texas DOT	Atlanta, Austin, Bryan, College Station, Corpus Christi, Dallas, El Paso, Grand Prairie, Houston & Laredo Districts	Merge Lanes, Median Installations, Acceleration Lanes, HOV Lane Separation
City of Washougal, WA	32nd Street	At grade, rail – highway crossing
City of Sacramento, CA	Commerce Way	Traffic Calming, Turn Restrictions
City of Virginia Beach, VA	Pleasure House Road	Turn Restrictions
Golden Gate Bridge District, CA	Highway 101	Toll Booth Lane Separation
Triborough Bridge & Tunnel Authority, New York, NY	Brooklyn Battery Tunnel	Tunnel Channelization
Westchester County, NY	Westchester Ave @ I-287	Off-Ramp Channelization



*Separation of opposing traffic on dangerous curves*



*Toll Plazas*



*Railroad crossings/Quiet Zones*



*Impact attenuator protection*

# Test Data • Proven Performance

Our curb systems have been tested and approved in many applications. The unique polymers used in the FG 300 curb sections and upright posts absorb high-speed vehicle impacts allowing the system to sustain hits at high speed with no damage to the system or danger to the driver.

## National Cooperative Highway Research Program (NCHRP) Report 350: Complete Curb System

- Tested and accepted as a crashworthy traffic control device for use in work zones on National Highway Systems (NHS)
- Complete curb system including upright posts tested at 60 MPH / 100 km/h
- Acceptance Letter WZ-193 (Interstate Grade)
- Acceptance Letter WZ-282 (Turnpike Grade)

**MASH-tested to TL3 at 62 MPH / 100 km/h**



Watch test videos at [Pexco.com/traffic](http://Pexco.com/traffic)



Vertical Panels

## National Cooperative Highway Research Program (NCHRP) Report 350: FG 300 UR & EFX Posts

- FG 300 Model UR and EFX comply with the requirements of a Category 1, Traffic Control Device in accordance with the guidelines and recommendations of the Federal Highway Administration, and the National Cooperative Highway Research Program (NCHRP) Report 350

## National Transportation Product Evaluation Program (NTPEP)

- **FG 300 UR Posts** Tested and Accepted Report # 6020.1 TTCD 2015-01-002  
Summer Test – 10/20/06; Winter Test – 2/9/06
- **FG 300 EFX Posts** Tested and Accepted Report TTCD-2015-01-003  
Summer Test – 6/28/06; Winter Test – 3/15/06

## Texas A&M Transportation Institute Tested: FG 300 Posts – 50 Impacts / No Failure

- **FG 300 UR Posts** Tested July 2004
- **FG 300 EFX Posts** Tested April 2009

## Approved or accepted for use by these and other agencies:

California DOT	Colorado DOT	Louisiana DOT & D
Iowa DOT	Kansas DOT	Minnesota DOT
Maryland SHA	Virginia DOT	Pennsylvania DOT
Texas DOT	Illinois Tollway	Massachusetts Hwy

## Options

### Vertical Panels

Vertical panels placed on curb systems increase visibility for motorists. They withstand tremendous abuse then rebound and reorient towards traffic after an impact. Vertical panels conform to Section 6F.61 of the MUTCD and are available in multiple sizes.

### Optional sheeting and colors

Posts can be sheeted with High Intensity or Abrasion-Resistant Super-HI Prismatic sheeting and custom sheeting such as black-on-yellow left-slant pre-stripe.

FG 300 posts and curbs are available in nine different colors including fluorescent orange and yellow green.





*Attenuator protection*



*Cloverleaf post for superior strength*



*Nighttime guidance*



*Bump-outs*



*Gore delineation*



*Permanent channelization*



*SFO International Terminal*



*Miyazaki National Highway*



*Phoenix AZ traffic calming circle*



*Porkchop pedestrian refuge*



*Installing Turnpike Grade Curb*



*Installing Interstate Grade Curb*