

HIGHLY-MOBILE WORKER PROTECTION SYSTEMS WORKSHOP

July 12-13, 2005

Sacramento, California



Water Filled Barriers Industry Snapshot

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Definitions

- Water Filled – Partially or Fully Filled with Water Onsite
- Barrier – Devices Capable of Redirecting or Capturing Errant Vehicles
- Plastic – LDPE, HDPE, PP, etc.
- Deployable – Installed and Removed with Minimal Equipment
- Structural Elements – Components that Cause Redirection or Capture Errant Vehicles
- Channelizer – Visual Delineation, No Redirective Capability

How They Work

- Inertia – Transfer of Momentum
- Energy – Moving Weight with Friction
- Tension – When Continuous Members are present

Manufacturers

- Energy Absorption Systems, Inc –Triton,
<http://www.energyabsorption.com/>
- Yodock Wall Company – Model 2001,
<http://www.waterbarrier.com/>
- Remcon Plastics – Guardsafe,
<http://www.remcon.com/>
- Off The Wall – Multibarrier,
<http://www.multi-barrier.com/>
- TrafFix Devices – Water Wall ,
<http://www.traffixdevices.com/>
- Barriers, USA – Guardliner,
<http://www.barriers-usa.com/profile.html/>

Manufacturers Continued

- Safety Barriers, Inc. – SB – 1 – TL,
<http://www.safetybarriersinc.com/>
- Creative Building Products, - 426SY,
<http://www.soacorp.com/>
- Rhino Safety Barrier, LLC – Barrier,
<http://www.rhinobarriers.com/>
- Premier Plastics – Roadrunner, <http://www.traffic-barrier.com/>
- Traffic Safety Devices, Inc. – Roadguard,
<http://www.roadguardbarrier.com/>
- Barrier Systems, Inc. – Absorb 350,
<http://www.barriersystemsinc.com/>

FHWA Approval Information- Longitudinal Barriers

● http://safety.fhwa.dot.gov/roadway_dept/road_hardware/index.htm

- Longitudinal Barriers
- Work Zone Devices (Channelizers)
- Crash Cushions and Terminals

FHWA Approval Information- Longitudinal Barriers

● B34 Safety Barrier Systems	TL-3
● B48 Energy Absorption	TL-3
● B97 Yodock Wall Company	TL-3
● B101 Rhino Safety Barrier	TL-2
● B111 Creative Building Prod.	TL-2
● B113 Remcon Plastics	TL-2
● B125 Safety Barriers, Inc.	TL-3
● B129 Barriers, USA	TL-2
● B130 TrafFix Devices, Inc.	TL-1

Water Filled Barriers With Structural Elements



Water Filled Barriers



Safety Barrier

Water Filled Barriers



Water Filled Barriers



Triton TL-3

FHWA Approval Information- Barricades and Channelizers Category 2 Hardware

- Yodock Wall Company, WZ22,WZ106, WZ107, WZ127
- Energy Absorption Systems, WZ191
- Traffic Safety Store, WZ188
- RooGuards, WZ178

Water Filled Longitudinal Channelizers & Barricades



Water Filled Longitudinal Channelizers & Barricades



Water Filled Longitudinal Channelizers & Barricades

NOT Triton

Very Specific Warning

No Cables



BARRACUDA label

"No Barrier" Symbol

Energy Absorption
Systems

Water Filled Longitudinal Channelizers & Barricades



Rhino

Terminals and Crash Cushions



Barrier Systems, Inc

Terminals and Crash Cushions



**Triton CET
(Concrete End
Treatment)**

Waterfilled Unit Benefits

- Light Weight (50-150 lbs Empty)
 - Easily Deployed and Recovered
 - Large Number of Units on Single Truck or Trailer
 - Softer Impacts
- Cleanup
- Highly Visible

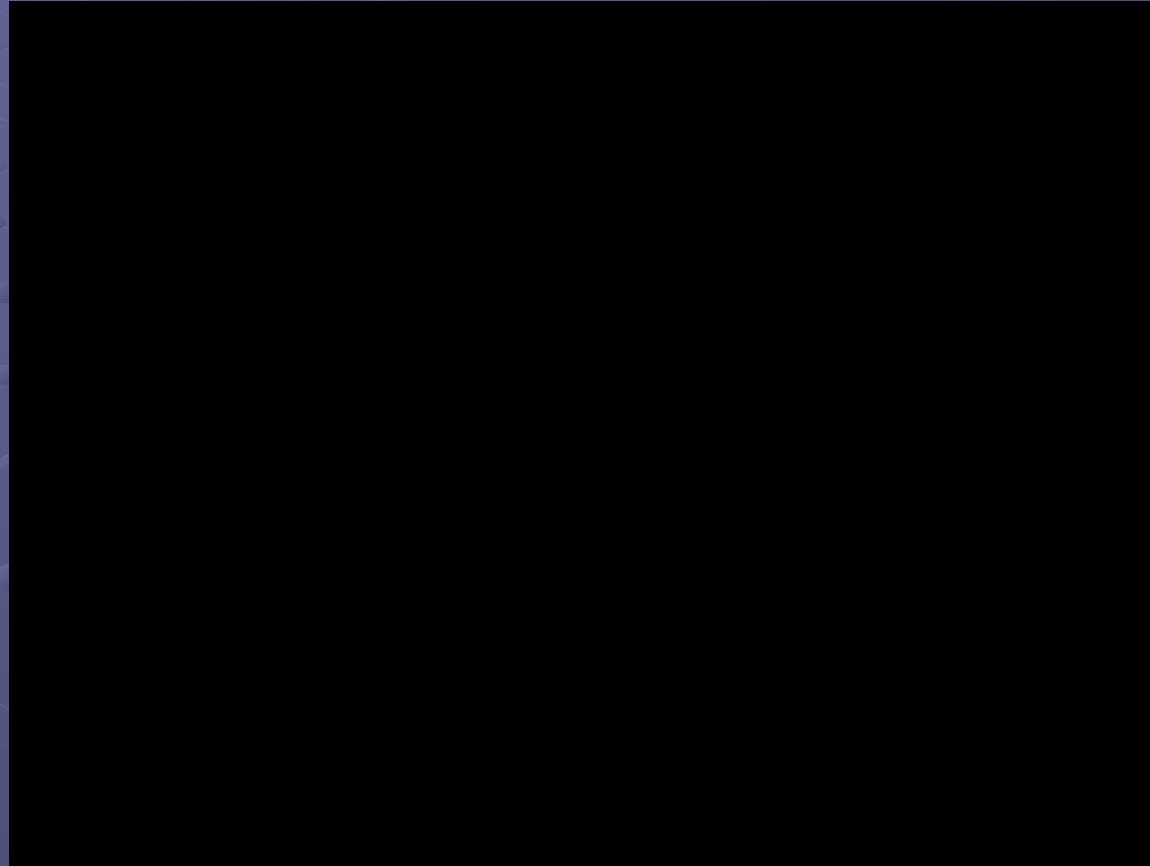
Waterfilled Unit Benefits



Waterfilled Unit Benefits



Waterfilled Unit Benefits



Waterfilled Unit Limitations

- Deflections
- Water Supply @ Site
- Nuisance Hits Can Damage
- Leakage
- Termination

Contact Information

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U.S. Department of Transportation
**Federal Highway
Administration**



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