



**American Planning Association**

*Making Great Communities Happen*

# Bollard Boot Camp - How to Protect Places and People From Vehicle Incursions (RV-W051518)

RedVector.com, Inc.

#9143593

Tuesday, May 15, 2018  
noon - 1 p.m. EDT

## OVERVIEW

Vehicles crash into storefronts, commercial buildings, and pedestrian areas more than 60 times every day, with as many as 500 Americans killed and more than 4000 injured.

From 2016 thru 2017, more people in America and Europe were injured or killed in vehicle attacks on crowds than any other form of terrorist attack.

More than \$150 million in liability claims have been paid out by property owners, property managers, business owners, architects and engineers in the United States in the last two years.

In this webinar, we will discuss what makes bollards effective safety and protective devices. You will come away with a better understanding of ASTM test standards as well as emerging state codes. Finally, you will learn how to limit possible liability resulting from a failure to include bollards in designs

- Explain why bollards are effective safety and protective devices
- List various bollard installations and their effectiveness
- Recall current test standards from ASTM
- Locate current local codes and emerging state codes
- Describe how to limit possible liability resulting from a failure to include bollards in designs

RESOURCE URL <http://www.redvector.com>

## SPEAKERS

Robert Reiter

ROBERT REITER 2015 – 2017 Principal, Reiter and Reiter Consulting Services – Colorado Springs, Colo. Incorporated consulting firm providing product development, research, business development, expert witness and other consultative services. Providing various consulting, product development and business development services for companies in the United States, Australia, and the United Kingdom that are active in the prevention of vehicle incursions in commercial and public areas. Currently consulting on product development for a West Coast manufacturer of bollards and safety barriers and for an East Coast manufacturer of anti-terrorist

active barrier systems. Also coordinating American introduction of innovative security and safety bollards and barriers developed, tested, and manufactured in Coventry, UK. Consulting with arenas, cities, retailers, and other entities to prevent deliberate or accidental vehicle incursions into crowds or property. Published articles in more than a dozen publications on causes, prevention, and frequency of Deliberate vehicle attacks and accidental vehicle incursions and pedestrian safety issues and participated in numerous media interviews for articles authored by others. Conducting ongoing research collection and analysis of vehicle-into-building crashes and pedestrian incursion events nationally, providing statistics on causation, location, and driver specific data on such accidents on both private property and public streets and roads. Data is published publicly and provided at no cost to industry, academic institutions, and government researchers. Active as an Expert Witness retained in numerous vehicle incursion lawsuits throughout the United States and Canada. 2009 – 2014 Independent Consultant – Los Angeles, CA Consultant to Eastern US-based high-security barrier company approved by the United States Department of State to design and manufacture protective barrier systems for use at embassies and missions in the US and overseas. Conceived and tested innovative surface-mounted vehicle barrier suitable for retrofit on sidewalks, curbs, and post-tensioned suspended slabs for international perimeter protection company. Participated in numerous new product design projects including the evaluation of crash testing for anti-terrorist and force protection fabrications in the US and UK. Began research and data collection project for vehicle-into-building crashes and pedestrian incursion events nationally, which is ongoing today. Expert witness retained in numerous vehicle incursion lawsuits throughout the United States and Canada. 2002 - 2009 Vice President Calpipe Industries - Downey, CA Took lead in growing company from small regional supplier into well-known national manufacturer of electrical products, bollards and other safety barriers. Led acquisition efforts and successfully acquired two companies in three years. Increased company-wide sales 400% over six years. Director of sales, marketing and product innovation at subsidiary Calpipe Security Bollards, working nationally with developers, insurance underwriters, contractors, and engineers. Conceived and executed the Pedestrian Safety Scale. Active in safety, security, and loss prevention efforts nationally, and authored or co-authored early articles on pedestrian safety and vehicle incursions. Led efforts to collaborate and establish ongoing corporate relationships with ASTM, NAED, AIA, UL and many others. Introduced several initiatives which are continuing to flourish. OTHER EXPERIENCE AND TRAINING Active participant in ASTM F12-10 committee work Co-Chairman ASTM subcommittee that wrote the F-3016 test standard for low speed safety barriers, including ongoing updates. Trained in Force Protection / Anti-Terrorist Perimeter Security Trained in Active Barrier Systems – design and safety and specifications Trained in C4SRI by various DOD entities Past or ongoing associations with ASME, ASSE and Underwriter’s Laboratory Approved presenter for an AIA registered for credit course on selection and specification of bollards by engineers, architects, and other professionals. ONGOING SAFETY WORK ASTM F12-10 COMMITTEE Ongoing service on ASTM F12-10 committee that re-wrote testing standard F2656 for high-speed, anti-terrorist barriers to replace the U.S. Department of Diplomatic Security/Department of State’s previous “K RATINGS” standard. Wrote first draft proposal for new, low-speed barrier test standard for ASTM in 2007. Currently serving as co-chairman of the subcommittee which wrote the new ASTM test standard “F3016-2014 “Standard Test Method for Surrogate Testing of Vehicle Impact Protective Devices at Low Speeds” approved on 1 November 2014. Currently tasked as Technical Contact and Author for ASTM WK56283 “Guide for recommendations on the selection, specification and installation of safety barriers and bollards” STOREFRONT SAFETY COUNCIL Co-Founder of the Storefront Safety Council with Mr. Mark Wright in Washington D.C. The Council is a small, unfunded volunteer advocacy group engaged in the promotion of safety standards, increased awareness of vehicle-into-building crashes and pedestrian incursion events, and conducting research and collecting statistics on causation, location, and driver specific-data on such accidents on both private property and public streets and roads. Data is published publicly and provided at no cost to industry, academic institutions, and government researchers. EDUCATION B.A. in Law and Society from the University of California 1976 PUBLICATIONS AND RESEARCH "IS RISK COMING AT YOU HEAD ON?" by Rob Reiter, published in Claims Journal., September 22, 2014 "BREAD, MILK AND MAYHEM: STOREFRONT CRASHES MORE COMMON THAN YOU THINK, AND OFTEN PREVENTABLE,(Rob Reiter quoted and provided all research materials and statistical information) Fair Warning, September 9, 2014 "THE OVERLOOKED THREAT OF VEHICLE-INTO-BUILDING ACCIDENTS" by Rob Reiter, published in Risk Management Magazine, September 1, 2014 "GONE IN SIXTY SECONDS - CRASH AND GRAB CRIME ON THE RISE", by Rob Reiter, published in ATM Marketplace, April 18, 2014 "HOW SAFE IS YOUR PARKING LOT?" by Robert Reiter and Mark Wright, Storefront Safety Council, published in Development Magazine, March 21, 2014 "SAVING LIVES AT STOREFRONT PARKING" by Rob Reiter, Parking Magazine, March 8, 2014. "SXSW CRASH RAISES CONCERNS ABOUT BARRICADE SAFETY" Radio and Print Interview by Kate McGee, NPR Station KUT in Austin Texas, March 13, 2014 "WE'RE SHAMEFULLY BAD AT PROTECTING PEDESTRIANS AT EVENTS", (Rob Reiter quoted and provided research material and statistics) article by Sarah Goodyear, The Atlantic Cities, March 13, 2014 "SAVING LIVES AT STOREFRONT PARKING" by Robert Reiter, Parking Magazine, March 8, 2014 "IS YOUR STORE READY FOR PEDAL

ERROR?" by Robert Reiter & Mark Wright, Storefront Safety Council, published in Convenience Store News, September 13, 2013  
"DATA ANALYSIS AND PREVENTION OF VEHICLE-INTO-BUILDING CRASHES" AUGUST 2, 2013. Paper co-authored by Rob Reiter and Dean Alberson and Felicia Desorcie of the Texas Transportation Institute at Texas A&M University "STOREFRONT CRASHES: A BIGGER URBAN DESIGN ISSUE THAN WE THINK", by Marlis Harris, MINNPOST, August 2, 2013 "THE HIDDEN EPIDEMIC OF STOREFRONT CRASHES", article by Sarah Goodyear, The Atlantic Cities, August 1, 2013 "PARKING IS A FULL-TIME JOB" - Rob Reiter collaboration with the Texas Traffic Institute at Texas A&M University, July 25, 2013 RETAIL STORE SAFETY CRASH PREVENTION CASE STUDY ON STARBUCKS , Mark Wright interviews Rob Reiter on the impact of storefront crashes on Starbucks, July 15, 2013 "LOW SPEED VEHICLE BARRIERS" - ASTM STANDARDIZATION NEWS UPDATE, SEP/OCT 2012 Co-chairman, ASTM F12-10 Committee CRASH VICTIMS' LAWSUITS TAKE AIM AT STOREFRONT SAFETY, by Rob Reiter and Mark Wright, December 2012 NEW ASTM LOW SPEED IMPACT TESTING STANDARD TO AID IN LOWERING RISK OF STOREFRONT CAR ACCIDENTS, ASTM Standardization News Update November 2014 TTI PLAYS KEY ROLE IN CREATING NEW SAFETY STANDARD TO PREVENT STOREFRONT CRASHES. Texas Traffic Institute at Texas A&M University December 2014 STOPPING VEHICULAR ATTACKS: VEHICLE INTRUSION RISKS INCREASE by Rob Reiter, published in Claims Journal Magazine April 2017 CONTACT INFO

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