



Transpo Industries manufactures a variety of innovative products and materials designed for improving road safety and infrastructure preservation. The company's reputation as an expert in rehabilitation, preservation and safety has made Transpo a leading supplier since 1968.



[WWW.TRANSPO.COM](http://WWW.TRANSPO.COM)

# Pole-Safe®

## BREAKAWAY LIGHT POLE SUPPORT SYSTEM

### Saving Lives With Breakaway Support System

Transpo's Pole-Safe® is an omni-directional breakaway support system for light poles and elements located within roadside clear zones and other locations vulnerable to vehicular impacts. The primary component of the system is a high-strength coupling, designed to break away quickly and cleanly upon impact, thus saving lives and reducing property damage costs.

Pole-Safe® is omni-directional, meaning the system breaks away with consistent, predictable behavior, regardless of the vehicle's angle of impact.

Pole-Safe® has been vehicle crash-tested and is approved for use on the National Highway System (NHS) and all Federal-Aid highway funded projects.



**The only breakaway system with proven, consistent and predictable behavior when impacted.**

4000 SERIES*	
Model Number	Anchor Bolt Diameter
4050	1/2"
4062	5/8"
4075	3/4"
4100	1"
4125	1-1/4"
5000 SERIES*	
Model Number	Anchor Diameter
5062	5/8"
5075	3/4"
5100	1"
5125	1"

\* Available for metric anchors



**SAFER TRANSPORTATION THROUGH INNOVATION**

# Pole-Safe®

## BREAKAWAY LIGHT POLE SUPPORT SYSTEM



**TESTED AND APPROVED IN ACCORDANCE WITH FHWA CRASH TEST STANDARDS**

### Superior Breakaway Performance

Extensive finite element analysis and simulated wind-load testing has been used to optimize the system. The precisely machined geometry of the Pole-Safe® coupling design causes the system to fracture safely at relatively low force and energy levels. This unique capacity is higher than AASHTO's requirements for impact velocity change, and the low stub projection after impact eliminates under carriage damage to the vehicle, again, exceeding AASHTO's requirements.

### High Structural Capacity

Pole-Safe® is available in a variety of models, designed to support different pole configurations subjected to various loading conditions. The high strength coupling design offers exceptional resistance to forces created by wind and dead loads. All Pole-Safe® crash tests were conducted using a 55' high, 930 pound pole which is the maximum allowable mass as specified by AASHTO.

### High Durability

All Pole-Safe® couplings and hardware are hot-dip galvanized in accordance with ASTM A153 to provide proven corrosion protection in harsh roadside environments. Additionally, independent fatigue testing has demonstrated that Pole-Safe® couplings are capable of withstanding more than two million loading cycles with no reduction in structural capacity.



The unique physical properties and breakaway performance of Pole-Safe® gives designers greater flexibility in sizing poles.

### Easy to Install and Maintain

No special tools or equipment are required to properly install and maintain Pole-Safe®. All components are easily secured using the American Institute of Steel Construction (AISC) turn-of-nut tightening method, which eliminates the need for precise torque levels on bolts.

### Low Cost

Pole-Safe® is the lowest cost breakaway system for poles. Low initial cost combined with high structural capacity and zero maintenance makes Pole-Safe® the most cost-effective solution for all breakaway light poles.

### Applications

Pole-Safe® can be used for any roadside element that requires breakaway support. Pole-Safe® is also FAA approved for use as frangible fuse bolts for objects placed within the designated safety area.



## Need more information?

[WWW.TRANSPO.COM/SAFETY](http://WWW.TRANSPO.COM/SAFETY)

Contact the materials experts at Transpo to find out more about the various products we offer.

If you need advice on how to install the product, the professionals at Transpo will guide you through the process. Project specific questions? We can assist you in creating a cost-effective, tailored solution for your project.



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