



2013

ARMORWIRE CABLE BARRIER TL-3



SGM33a

SHEET NO.

DATE:

1 OF 2

07/10/2013

INTENDED USE

The ArmorWire TL-3 three-cable barrier (**SGM33a**) has been tested to NCHRP 350 criteria for longitudinal cable barriers. It can be used in either edge of road or median applications. The ArmorWire TL-3 system can use post spacing ranging from 1.0m to 9.0m in line with the installation deflection requirements (see interpolated deflection table below). Deflections marked with a star are from actual crash testing involving a 2000kg pickup truck impacting at 100kph at 25°.

Post Spacing (m)	3.0	4.0	5.0	6.0	7.0	8.0	9.0
Deflection (m)	1.54*	1.83	2.12	2.41	2.69	2.98	3.27*

* Actual deflections.

SGM33a is a Test Level 3 accepted system, by installing an additional cable to the top slot of the barrier post the system is converted to Test Level 4 (**SGM33b**). The remaining components are common for both TL-3 and TL-4 system.

FEATURES AND SPECIFICATIONS

- Exceptional vehicle control and behaviour
- System with the lowest part count in the market
- Same system can be used in roadside as well as median application
- Tested and accepted to NCHRP 350 TL-3 (three wire system)
- Easily upgradable to TL-4 system
- Matching NCHRP 350 TL-3 end terminal available: Universal (ATE)
- Minimal build-up in snow or sand environments
- No sharp edges or exposed “hooks” on posts
- Barrier width is only 97mm
- Dynamic deflection for 2000 kg vehicle is 1.54m (100kph, 25°)
- Length of Need is 8m (Terminal end LoN)
- Posts are hot dip galvanized (powder coating is optional)
- Concrete specified is 25 MPa (3625 psi)

APPROVALS

FHWA Acceptance Letter: **B-222**.

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