

Illinois Department of Transportation
Bureau of Materials
**QUALIFIED PRODUCT LIST OF HIGH TENSION CABLE MEDIAN BARRIER
and
HIGH TENSION CABLE MEDIAN BARRIER TERMINALS**

May 24, 2024

This list supersedes the April 10, 2020 list.

Standards Specification for Road and Bridge Construction Section 644 (Adopted April 1, 2016)
Material Codes 55603 and 55604

The following four systems may only be used where median slopes are 1:6 or flatter as shown in the plans:

HIGH TENSION CABLE MEDIAN BARRIER

Gibraltar
320 Southland Road
Burnet, Texas 78611
Phone (800) 495-8957
Producer/Supplier No: 6350-01
<https://gibraltarglobal.com/>

GIBRALTAR CABLE BARRIER SYSTEM (TL -4)

As tested and accepted according to
FHWA Acceptance Memo [HSSD/B-137D](#) dated February 8, 2008.

Four cable system with four point anchorage.
Post spacing = 10 to 15 feet as required by the contract. See also
Acceptance Memo [HSA-10/137B](#) dated April 3, 2006. (15 foot spacing
limit set by IDOT below tested limiting condition.)

Brifen USA
12501 North Santa Fe Ave.
Oklahoma City, Oklahoma 73114
Phone (866) 427-4336
Producer/Supplier No: 6319-01
<http://www.brifenus.com/>

BRIFEN WIRE ROPE SAFETY FENCE (TL-4)

As tested and accepted according to
FHWA Acceptance Memo [HSA-10/B-82B](#), dated March 27, 2005.

Post spacing = 10.5 feet.

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Bureau of Materials
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Material Codes 55603 and 55604

Valtir, LLC.
15601 Dallas Parkway Suite525
Addison, TX 75001
Phone (800) 527-6050
Producer/Supplier No: 7301-01 (Ft. Worth, Texas)
7301-04 (Girard, Ohio)
<https://www.valtir.com/>

CABLE SAFETY SYSTEM (CASS S3)

As tested and accepted according to
FHWA Acceptance Memo [HSSD/B-141F](#) dated October 1, 2010.

Four cable system.
Minimum post spacing = 10 ft. 6 in. Maximum post spacing = 15 feet.

Nucor Steel Marion, Inc.
912 Cheney Avenue
Marion, Ohio 43302
Phone (800) 333-4011
Producer/Supplier No: 2394-15
<http://www.nucorhighway.com/>

NU-CABLE TL-4 CABLE BARRIER

With 4-inch vertical offset of top two cables

As tested and accepted according to FHWA Acceptance Memos
[HSSD/B-167](#) dated January 24, 2008, and HSSD/B-184 dated
December 9, 2008.

Domestic Steel Act Applies: All iron and steel products, which are to be incorporated into state projects shall be domestically manufactured or produced and fabricated. The Contractor shall obtain from the iron or steel producer and/or fabricator, in addition to the mill analysis, a certification that all iron or steel materials meet these domestic source requirements. The application of all coatings, epoxy, galvanizing, painting, etc., to metal products shall be domestically applied.

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Material Codes 55603 and 55604

The following four systems are the only ones that may be used where median slopes are steeper than 1:6 and as steep as 1:4, as shown in the plans:

HIGH TENSION CABLE MEDIAN BARRIER

Gibraltar
320 Southland Road
Burnet, Texas 78611
Phone (800) 495-8957
Producer/Supplier No: 6350-01
<https://gibraltarglobal.com/>

GIBRALTAR TL-4 CABLE BARRIER SYSTEM

With four point anchorage.

As tested and accepted on a 1:4 sloped median according to FHWA Acceptance Memo [HSA-10/137C](#) dated July 12, 2006 and FHWA Acceptance Memo [HSSD/B-137D](#) dated February 8, 2008. Post spacing = 15 feet.

Concrete foundations and sockets for posts shall be according to FHWA Acceptance Memo [HAS-10/B-137A](#) dated September 9, 2005, except that the concrete foundation depth shall be as required in the contract.

Note – This system consists of the TL-4 hardware with four point anchorage installed in the sloped median, and has been accepted by FHWA as meeting the TL-3 crash testing criteria.

Brifen USA
12501 North Santa Fe Ave.
Oklahoma City, Oklahoma 73114
Phone (866) 427-4336
Producer/Supplier No: 6319-01
<http://www.brifenusa.com/>

BRIFEN WIRE ROPE SAFETY FENCE (TL-4 HARDWARE)

As tested and accepted on a 1:4 sloped median.
FHWA Acceptance Memo [HSA-10/B82-B1](#), dated May 9, 2006.

Post spacing = 10.5 feet.
Also according to FHWA Acceptance Memo [HSA-10/82-B](#), dated March 27, 2005 for purposes of the transition from the TL-4 system to the TL-3 terminal. (continued on next page)

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Material Codes 55603 and 55604

(Brifen continued)

Concrete foundations and sockets for posts shall be according to FHWA Acceptance Memo [HAS-10/B-82B](#) dated March 27, 2005, except that the concrete foundation depth shall be as required in the contract.

Note – This system consists of the TL-4 hardware installed in the sloped median, and has been accepted by FHWA as meeting the TL-3 crash testing criteria.

[Valtir, LLC.](#)
[15601 Dallas Parkway Suite525](#)
[Addison, TX 75001](#)
Phone (800) 527-6050
Producer/Supplier No: [7301-01](#) (Ft. Worth, Texas)
[7301-04](#) (Girard, Ohio)
<https://www.valtir.com/>

CABLE SAFETY SYSTEM (CASS S3 4:1)

As tested and accepted according to FHWA Acceptance Memo [HSSD/B-141F](#) dated October 1, 2010.

Minimum post spacing = 10 ft 6 in. Maximum post spacing = 15 ft.

Nucor Steel Marion, Inc.
912 Cheney Avenue
Marion, Ohio 43302
Phone (800) 333-4011
Producer/Supplier No: 2394-15
<http://www.nucorhighway.com/>

NU-CABLE 4-CABLE MEDIAN BARRIER on 1V:4H Slopes

As tested and accepted according to FHWA Acceptance memo [HSSD/B-193](#) (REVISED) dated July 27, 2009.

Domestic Steel Act Applies: All iron and steel products, which are to be incorporated into state projects shall be domestically manufactured or produced and fabricated. The Contractor shall obtain from the iron or steel producer and/or fabricator, in addition to the mill analysis, a certification that all iron or steel materials meet these domestic source requirements. The application of all coatings, epoxy, galvanizing, painting, etc., to metal products shall be domestically applied.

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Bureau of Materials
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The following terminals shall only be used with the cable barrier system indicated:

HIGH TENSION CABLE MEDIAN BARRIER TERMINALS

Gibraltar
320 Southland Road
Burnet, Texas 78611
Phone (800) 495-8957
Producer/Supplier No: 6350-01
<https://gibraltarglobal.com/>

TL-3 TERMINAL FOR GIBRALTAR CABLE BARRIER

As tested and accepted according to
FHWA Acceptance Memo [HSSD/B-137D](#) dated February 8, 2008.

Four cable system with four point anchorage.
See contract for design of anchors and for site soil conditions.

Brifen USA
12501 N. Santa Fe Ave.
Oklahoma City, Oklahoma 73114
Phone (866) 427-4336
Producer/Supplier No: 6319-01
<http://www.brifenus.com/>

TL-3 TERMINAL FOR BRIFEN WIRE ROPE SAFETY FENCE

As tested and accepted according to
FHWA Acceptance Memo [HSA-10/CC-86](#) dated January 28, 2004.

See contract for design of anchors and for site soil conditions.

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Valtir, LLC.
15601 Dallas Parkway Suite525
Addison, TX 75001
Phone (800) 527-6050
Producer/Supplier No: 7301-01 (Ft. Worth, Texas)
7301-04 (Girard, Ohio)
<https://www.valtir.com/>

FOUR STRAND CABLE GUARDRAIL TERMINAL

As tested and accepted according to
FHWA Acceptance Memo [HSSD/B-157](#) dated April 23, 2007.

Nucor Steel Marion, Inc.
912 Cheney Avenue
Marion, Ohio 43302
Phone (800) 333-4011
Producer/Supplier No: 2394-15
<http://www.nucorhighway.com/>

FOUR STRAND CABLE GUARDRAIL TERMINAL

As tested and accepted according to
FHWA Acceptance Memo [HSSD/B-157](#) dated April 23, 2007.

or

As tested and accepted according to
FHWA Acceptance Memo [HSSD/CC-98](#) dated April 9, 2007.

See contract for design of anchors and for site soil conditions.

Domestic Steel Act Applies: All iron and steel products, which are to be incorporated into state projects shall be domestically manufactured or produced and fabricated. The Contractor shall obtain from the iron or steel producer and/or fabricator, in addition to the mill analysis, a certification that all iron or steel materials meet these domestic source requirements. The application of all coatings, epoxy, galvanizing, painting, etc., to metal products shall be domestically applied.

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Submittal for Approval

A. Scope

The following guidelines are provided to clarify the submittal requirements for placement on the QPL

B. Procedure

When submitting a new product to the Department, the following shall be included in the submittal package:

- FHWA Eligibility letter (If available)
- Installation Manual
- Product drawings
- [Product Specifications](#)
- Crash Test videos and reports
- Product information sheet (If available)
- Other documentation pertinent to the review

The submittal information shall be sent to:

Illinois Department of Transportation
Bureau of Safety Programs and Engineering
2300 S Dirksen Parkway, Room 005/007
Springfield, IL 62764