

Illinois Department of Transportation
Bureau of Materials

Qualified Product List

REINFORCING BAR SPLICER ASSEMBLIES, MECHANICAL SPLICERS AND BAR TERMINATORS (FOR HEADED REINFORCEMENT)

April 26, 2024

This list supersedes the September 22, 2023 list.

Standard Specifications for Road and Bridge Construction, Section 1006.10(a)(1) g. (current year issued)

Section 1006: Metals

1006.10 (a) (1) g. Splicing and Guide Bridge Special Provision GBSP 100

3989-01 BarSplice Products, Inc. , 4900 Webster Street, Dayton, OH 45414					
IDOT Material Code	Product Description	Article #	System Type		
			Bar Splicer (Product Name)	Mechanical Splicer (Product Name)	Bar Terminator (Product Name)
63203	Bar Splicer (Coupler)	1006.10	Barsplicer Bargrip	Grip-Twist	
63204	Bar Splicer (Coupler) Epoxy Coated		Bargrip XL Bargrip UXL	ZAP Screwlok SL ZAP Screwlok TYP 2	

3453-03 CMC Rebar Illinois , 780 East Industrial Parkway, Kankakee, IL 60901					
IDOT Material Code	Product Description	Article #	System Type		
			Bar Splicer (Product Name)	Mechanical Splicer (Product Name)	Bar Terminator (Product Name)
63203	Bar Splicer (Coupler)	1006.10	BPI Standard Barsplicer System		
63204	Bar Splicer (Coupler) Epoxy Coated				

494-01 Dayton Superior Corporation , 1125 Byers Road, Miamisburg, OH 45342					
IDOT Material Code	Product Description	Article #	System Type		
			Bar Splicer (Product Name)	Mechanical Splicer (Product Name)	Bar Terminator (Product Name)
63203	Bar Splicer (Coupler)	1006.10	D-50 DBR	D-250 L	D-351
63204	Bar Splicer (Coupler) Epoxy Coated		D51 DBR	D-250 SCA	
6292360	Headed Bar		D51A DBR	D-250 XL	
6292460	Headed Bar Epoxy Coated		DB-SAE System D340 Taper Lock	D410 Grout Lock	

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2233-02 Erico nVent Lenton. , 34600 Solon Road, Cleveland, OH 44139					
IDOT Material Code	Product Description	Article #	System Type		
			Bar Splicer (Product Name)	Mechanical Splicer (Product Name)	Bar Terminator (Product Name)
63203	Bar Splicer (Coupler)	1006.10	Lenton Taper Thread A-2 Lenton Form Saver	T-series (Cadweld) Lenton Connect S2	
63204	Bar Splicer (Coupler) Epoxy Coated				
6647-01 Fabco LLC , 7410 Apache Street, Houston, TX 77028					
IDOT Material Code	Product Description	Article #	System Type		
			Bar Splicer (Product Name)	Mechanical Splicer (Product Name)	Bar Terminator (Product Name)
63203	Bar Splicer (Coupler)	1006.10	Multi. Piece Tie Bar Sys. Form Saver Coupler		
63204	Bar Splicer (Coupler) Epoxy Coated				
5555-01 Fischer Const. Systems, Inc. , 688 North Broadway, St. Louis, MO 63147					
IDOT Material Code	Product Description	Article #	System Type		
			Bar Splicer (Product Name)	Mechanical Splicer (Product Name)	Bar Terminator (Product Name)
63203	Bar Splicer (Coupler)	1006.10	Lenton Form Saver Lenton Taper Thread A-2	T-series (Cadweld)	
63204	Bar Splicer (Coupler) Epoxy Coated				

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5556-01 Headed Reinforcement Corp. , 11200 Condor Avenue, Fountain Valley, CA 92708					
IDOT Material Code	Product Description	Article #	System Type		
			Bar Splicer (Product Name)	Mechanical Splicer (Product Name)	Bar Terminator (Product Name)
63203	Bar Splicer (Coupler)	1006.10	HRC 500 Series Couplers		
63204	Bar Splicer (Coupler) Epoxy Coated				
7241-01 Rhino Global Company , 31146 Lake Road, Bay Village, OH 44140					
IDOT Material Code	Product Description	Article #	System Type		
			Bar Splicer (Product Name)	Mechanical Splicer (Product Name)	Bar Terminator (Product Name)
63203	Bar Splicer (Coupler)	1006.10	Bar to Bar Coupler Rhino Formsaver Friction Weld		
63204	Bar Splicer (Coupler) Epoxy Coated				
4225-01 Williams Form Engineering , 1501 Madison Avenue SE, Grand Rapids, MI 49507					
IDOT Material Code	Product Description	Article #	System Type		
			Bar Splicer (Product Name)	Mechanical Splicer (Product Name)	Bar Terminator (Product Name)
63203	Bar Splicer (Coupler)	1006.10	C2D Flange		
63204	Bar Splicer (Coupler) Epoxy Coated				

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7271-01 Tulley Steel , 13840 Corporate Woods Trail, Bridgeton , MO 63044					
IDOT Material Code	Product Description	Article #	System Type		
			Bar Splicer (Product Name)	Mechanical Splicer (Product Name)	Bar Terminator (Product Name)
63203	Bar Splicer (Coupler)	1006.10	D340 Taper Lock		
63204	Bar Splicer (Coupler) Epoxy Coated				
3454-06 ABC Coating Company , 1160 North Boudreau Road, Manteno, IL 60950					
IDOT Material Code	Product Description	Article #	System Type		
			Bar Splicer (Product Name)	Mechanical Splicer (Product Name)	Bar Terminator (Product Name)
63203 63204 6292360 6292460	Bar Splicer Bar Splicer (Coupler) Epoxy Coated Headed Bar Headed Bar Epoxy Coated	1006.10	D340* *Sizes 4-8 ONLY		D351

System types “Bar Splicer” or “Mechanical Splicer” are required when used as splices outlined on [Bridge Manual Base Sheet BSD-1](#). The “Mechanical” system requires skilled labor and/or unique equipment to install where the “Bar Splice” system consists of threaded reinforcing bars which screw into the splicer.

Important:

When installing “Bar Splicer” or “Mechanical” couplers it is critical that the male reinforcement bar(s) have the correct thread for proper installation into the coupler assembly. For example, a straight threaded barrel coupler cannot use a male tapered threaded reinforcement bar (see picture below).

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 Testing and Approval

A. Scope

Before reinforcing bar splicers, mechanical splicers and bar terminators can be used in Illinois Department of Transportation (IDOT) or local agency contracts, these products shall be on the IDOT Qualified Product List (QPL). The following guidelines are provided to clarify the submittal process and expedite material acceptance.

B. Procedure

Reinforcing bar splicer, mechanical splicer and bar terminator products will be placed on the IDOT Qualified Product List (QPL) after being approved through IDOT testing.

Reinforcing bar splicers and mechanical splicers shall meet the requirements of Article 1006.10(a)(1)g of the IDOT *Standard Specifications for Road and Bridge Construction* and Guide Bridge Special Provision GBSP 100. Bar terminators for headed reinforcement shall meet the requirements of Guide Bridge Special Provision GBSP 100.

For a product to be included on the QPL, the manufacturer shall submit three preliminary test samples for each rebar size made. The samples shall be epoxy coated. If the manufacturer does not make an epoxy coated version of the product, then uncoated samples will be allowed.

- Rebar splicer samples shall include a minimum of 18 inches of rebar on each side of the splicer
- Bar terminator samples shall include a minimum of 48 inches of rebar

The following information shall be included with the product samples:

- Manufacturing company's name and address
- Manufacturing company's internet address (if applicable)
- The brand name (model name) of the splicer or bar terminator
- Sizes made, by rebar size
- Technical Data Sheet
- Contact person's name, title, email address, and phone number
- Material certification from the manufacturer certifying the product is made from domestically melted steel that is manufactured and coated in the United States
- A signed letter stating the product will not be changed without written notification to IDOT
- A signed Acknowledgement by Company (Form [BMPR 101](#)).

The submittal of product samples shall be coordinated with Michael Aldridge at (217) 558-2091 or Daniel Tobias at (217) 782-2912. The samples and required documentation shall be sent to:

Illinois Department of Transportation
Bureau of Materials
Attn: Michael Aldridge
126 East Ash Street
Springfield, Illinois, 62704-4766

C. Material Acceptance on IDOT and Local Agency Construction Projects

The Method of Acceptance for reinforcing bar splicers, mechanical splicers and bar terminators is the product being on the Qualified Product List (QPL).

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Samples of reinforcing bar splicers and mechanical splicers are required when the total contract quantity of all splicer sizes exceeds 100 pieces. Each size splicer in the contract shall be sampled. A sample consists of three splicers. Sampling and testing will be done in accordance with the *Manual for Materials Inspection*. An IDOT representative will randomly select the samples on the jobsite. The contractor shall order extra splicers to cover the sample quantities.

One bar terminator size will be tested from every contract. An IDOT representative will choose the size to be tested and randomly select the sample on the jobsite. A sample consists of three bar terminators, along with the required length of rebar. Sampling and testing will be done in accordance with the *Manual for Materials Inspection*. The contractor shall order extra bar terminators to cover the sample quantity.

The samples will be tested by the Bureau of Materials.

D. Removal from the Qualified Product List (QPL)

A product may be removed from the QPL for the following reasons:

1. The manufacturer changed the product's design after IDOT approval, without notifying IDOT
2. Failure of samples taken on construction projects

E. Return to the Qualified Product List (QPL) after Removal

A product may be returned to the Qualified Product List:

1. When a new product design has been IDOT tested and approved
2. After the manufacturer corrects the cause of a failure and samples of new production pass IDOT testing
3. At IDOT's discretion