

nVent LENTON Mechanical Splice Performance Matrix for ASTM® Reinforcing Steel



Grades 60–120 • Plain and Epoxy Coated Bars

Ultimate Tensile Strength Requirement per ACI 318	ASTM A615 & A706 Grade 60		ASTM A615 Grade 75		ASTM A615 & A706 Grade 80		ASTM A615 Grade 100*	ASTM A1035 Grade 100*		ASTM A1035 Grade 120*	
	Type 1	Type 2	Type 1	Type 2	Type 1	Type 2	Undefined	Type 1	Type 2	Type 1	Type 2
	A615 = 75 ksi A706 = 75 ksi	A615 = 90 ksi A706 = 80 ksi	93.8 ksi	100 ksi	A615 = 100 ksi A706 = 100 ksi	A615 = 105 ksi A706 = 100 ksi	115 ksi	125 ksi	150 ksi	150 ksi	150 ksi
Standard Couplers	A2	A2	A2	A2	A2	A2	A22	A22/A32K	A32K	A32K	A32K
Standard Transition Couplers	A2	A2	A2	A2	A2	A2	A12	A12**	—	—	—
nVent LENTON Form Saver (FS) †	FS	FS	—	—	—	—	—	—	—	—	—
nVent LENTON Form Saver (SA) Δ	SA	SA	SA	SA	SA	SA	—	—	—	—	—
Position Couplers	P9	P9	P9	P9	P9	P9	P24L	P24L	—	—	—
Weldable Couplers	C2/C3J	C2/C3J	C2/C3J	C2/C3J	C2/C3J	C2/C3J	—	—	—	—	—
nVent LENTON Interlok ◊	LK	LK	LK	LK	LK	LK	—	—	—	—	—
nVent LENTON Quick Wedge	ML	—	—	—	—	—	—	—	—	—	—

Definitions:

Type 1, ACI 318, Section 18.2.7.1(a)- A Type 1 mechanical splice shall develop in tension or compression, as required, at least 1.25fy of the spliced bar. (1.25fy=125% of the specified yield strength).

Type 2, ACI 318, Section 18.2.7.1(b)- A Type 2 mechanical splice shall meet the requirements of Type 1 AND shall be capable of developing the specified tensile strength of the spliced bar (fu).

1 ksi = 1,000 psi.

Notes:

* ACI 318 has not yet fully defined the performance requirements for this type and grade of reinforcing steel.

** nVent LENTON Transition Couplers (A12) only for sizes #8 and larger.

† nVent LENTON Form Saver (FS) is a friction forged reinforcing steel assembly. These assemblies are only available through nVent regional manufacturing centers (RMC).

Δ nVent LENTON Form Saver (SA) is a standard coupler with a mounting plate.

◊ nVent LENTON Interlok performance with HY15LM grout.



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