

# nVent LENTON Ultimate Standard Couplers

## Independent Test Data for ASTM® A706 Grade 80



| Part Numbers             | Rebar |    |                         | Independent Test Lab Results |                       |                  | IBC & ACI 318 Type 1   |                     | IBC & ACI 318 Type 2                                   |                     |
|--------------------------|-------|----|-------------------------|------------------------------|-----------------------|------------------|--|---------------------|--|---------------------|
|                          | Size  |    | Area (in <sup>2</sup> ) | Report Number                | Tested Results* (psi) | % f <sub>y</sub> | Code Requirements<br>125% f <sub>y</sub> (1.25 X 80,000) psi | Type 1<br>Pass/Fail | Code Requirements<br>100% f <sub>u</sub> (100,000) psi | Type 2<br>Pass/Fail |
|                          | in-lb | mm |                         |                              |                       |                  |  |                     |  |                     |
| LU12FT12 &<br>LU12MT12   | 4     | 12 | 0.20                    | TK4338                       | 118,275               | 148%             | 100,000  | Pass                | 100,000  | Pass                |
|                          |       |    |                         | TK4340                       | 116,870               | 146%             |  | Pass                |  |                     |
|                          |       |    |                         | TK4341                       | 116,640               | 146%             |  | Pass                |  |                     |
| LU16FT12 &<br>LU16MT12   | 5     | 16 | 0.31                    | TK4322                       | 116,797               | 146%             | 100,000  | Pass                | 100,000  | Pass                |
|                          |       |    |                         | TK4323                       | 116,574               | 146%             |  | Pass                |  |                     |
|                          |       |    |                         | TK4324                       | 117,232               | 147%             |  | Pass                |  |                     |
| LU20FT12 &<br>LU20MT12   | 6     | 20 | 0.44                    | TK4301                       | 117,111               | 146%             | 100,000  | Pass                | 100,000  | Pass                |
|                          |       |    |                         | TK4302                       | 117,157               | 146%             |  | Pass                |  |                     |
|                          |       |    |                         | TK4303                       | 116,939               | 146%             |  | Pass                |  |                     |
| LU22FT12 &<br>LU22MT12   | 7     | 22 | 0.60                    | TK4343                       | 114,398               | 143%             | 100,000  | Pass                | 100,000  | Pass                |
|                          |       |    |                         | TK4344                       | 113,577               | 142%             |  | Pass                |  |                     |
|                          |       |    |                         | TK4345                       | 113,903               | 142%             |  | Pass                |  |                     |
| LU25FT12 &<br>LU25MT12   | 8     | 25 | 0.79                    | TK3487                       | 111,315               | 139%             | 100,000  | Pass                | 100,000  | Pass                |
|                          |       |    |                         | TK3488                       | 111,897               | 140%             |  | Pass                |  |                     |
|                          |       |    |                         | TK3489                       | 111,180               | 139%             |  | Pass                |  |                     |
| LU28FT12 &<br>LU28MT12   | 9     | 28 | 1.00                    | TK3475                       | 115,880               | 145%             | 100,000  | Pass                | 100,000  | Pass                |
|                          |       |    |                         | TK3477                       | 115,634               | 145%             |  | Pass                |  |                     |
|                          |       |    |                         | TK3478                       | 116,184               | 145%             |  | Pass                |  |                     |
| LU32FT12 &<br>LU32MT12   | 10    | 32 | 1.27                    | TK3497                       | 115,567               | 145%             | 100,000  | Pass                | 100,000  | Pass                |
|                          |       |    |                         | TK3498                       | 115,244               | 144%             |  | Pass                |  |                     |
|                          |       |    |                         | TK3500                       | 114,231               | 143%             |  | Pass                |  |                     |
| LU36FT12 &<br>LU36MT12   | 11    | 36 | 1.56                    | TK3507                       | 116,829               | 146%             | 100,000  | Pass                | 100,000  | Pass                |
|                          |       |    |                         | TK3508                       | 116,888               | 146%             |  | Pass                |  |                     |
|                          |       |    |                         | TK3510                       | 116,762               | 146%             |  | Pass                |  |                     |
| LU43TFT12 &<br>LU43TMT12 | 14    | 43 | 2.25                    | TK4490                       | 109,517               | 137%             | 100,000  | Pass                | 100,000  | Pass                |
|                          |       |    |                         | TK4491                       | 109,422               | 137%             |  | Pass                |  |                     |
|                          |       |    |                         | TK4492                       | 109,224               | 137%             |  | Pass                |  |                     |
| LU57TFT12 &<br>LU57TMT12 | 18    | 57 | 4.00                    | TK3466                       | 110,842               | 139%             | 100,000  | Pass                | 100,000  | Pass                |
|                          |       |    |                         | TK3467                       | 111,084               | 139%             |  | Pass                |  |                     |
|                          |       |    |                         | TK3468                       | 113,333               | 142%             |  | Pass                |  |                     |

\* Tested performance also exceeds ACI 318 Type 1 and Type 2 for ASTM A706 Grade 60 and A615 Grades 60, 75 and 80.

**Definitions:**

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

ACI 318, Type 2, 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 (f<sub>u</sub>).

**Notes:**

Table is a summary of Benchmark Holdings International independent laboratory tests. Test reports available upon request.



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