nVent LENTON Terminator
For Rebar Anchorage
Hooked Rebar Anchorage vs. nVent LENTON Terminator

For many years, the traditional method of connecting roof/column and beam/column connections has been with hooked rebar anchorage. But as many structural engineers, architects and specifiers have discovered, this method of anchorage has very few advantages. Explore the reasons why you should consider the nVent LENTON Terminator – your efficient alternative for hooked rebar anchorage.

**WHICH SYSTEM IS MORE RELIABLE AND ECONOMICAL?**

**HOOKED REBAR ANCHORAGE**
- Requires longer development lengths
  - Increases rebar congestion
  - Restricts flow of larger aggregates
- Hidden costs
  - The larger the bar, the longer the lap
- Inhibits rebar placement
  - Increases rebar placing costs
- Jeopardizes job site safety
  - Increases safety hazards through exposed rebar
- Restricts removal of column forms and shaft casings
  - Labor intensive

**LENTON TERMINATOR**
- Eliminates rebar hook
  - Simplifies bar placement
- Minimizes development lengths
  - Reduces congestion
- Simplifies concrete placement
  - Better concrete consolidation
- More embedment options
  - Greater design flexibility
- Faster installation
  - Lowers in-place cost
- Standard product dimensions
  - Minimal detailing required
- Allows for future extensions
  - Simplifies expansion

**HOW LENTON TERMINATOR WORKS**

The LENTON Terminator design builds on the extensive testing conducted for headed anchors. Most recently the American Concrete Institute (ACI®) published Building Code Requirements (318-08) defining the development of headed and mechanically anchored deformed bars in tension (Section 12.6). Additionally, the International Building Code (IBC®) references ACI 318. LENTON Terminator effectively reduces the length of reinforcing bar required, thus minimizing congestion. For example, to develop the specified yield strength in a #8 (25 mm) rebar:

<table>
<thead>
<tr>
<th>LENTON Terminator Embedment*</th>
<th>15&quot; (381 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hooked Rebar Embedment</td>
<td>19&quot; (483 mm)</td>
</tr>
</tbody>
</table>

* Example for anchors meeting conditions in ACI 318-08 Section 12.6.

ASTM® A615 Grade 60 Reinforcing Steel: Minimum fy=60 ksi, fuk=90 ksi
Normal Weight Concrete = f'c = 4,000 psi

20% reduction in development length. 44% less rebar congestion in the anchorage zone plus related labor savings.

Ask your nVent representative or contact nVent for a copy of The Wallace Report – the paper on the full scale test for LENTON Terminator.

**TENSION DEVELOPMENT LENGTHS FOR HEADED REINFORCING UNCOATED BARS (ACI)**

<table>
<thead>
<tr>
<th>Bar Size</th>
<th>f'c = 3,000 psi</th>
<th>f'c = 4,000 psi</th>
<th>f'c = 5,000 psi</th>
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<td>25</td>
<td>22</td>
<td>19</td>
<td>18</td>
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</table>

1 inch = 24 millimeters

Notes:
1. Tabulated values are based on a minimum yield strength of 60,000 psi [420MPa]. Lengths are in inches.
2. Tension development lengths of headed bars are calculated per ACI 318-08, Section 12.6.
3. Tabulated values have been rounded up to nearest whole number.
Faster Rebar Placement & Reduced Rebar Congestion

WHY TERMINATOR?
Recent code changes have significantly increased the amount of rebar required, while at the same time, designers are striving for more compact structural elements. This results in rebar congestion and placement problems. The Terminator answers these challenges by eliminating the majority of rebar embedment lengths required, while reducing job-site related man-hours.

Terminator is designed for use in concrete with ASTM® A615 Grade 60/75 or A706, ENV10080, BS4449, AS3102, and other international grades of rebar in sizes #4 (12 mm) through #18 (57 mm). The LENTON Terminator requires no special training, minimizes detailing and is ideal for all types of concrete construction projects. The system is supplied through a network of local rebar fabricators utilizing standard nVent LENTON threading equipment.

Terminator is designed to meet the requirements of ACI® 318 as an alternate to hooked rebar anchorage. ACI 318 Section 12.6.4 states: "Any mechanical attachment or device capable of developing f_y of reinforcement is allowed, provided that test results showing the adequacy of such attachment or device are approved by the building official."

SIMPLIFIED REBAR PLACEMENT
The Terminator is an oversized coupling secured to the end of a length of reinforcing steel, creating anchorage within the concrete. This approach greatly simplifies rebar placement and reduces congestion. The Terminator incorporates the time-tested and field-proven nVent LENTON tapered thread (See below). The Terminator exceeds Type 2 requirements.

SIMPLIFIED FUTURE EXPANSION
There are instances when the design of a structure will involve an expansion sometime in the future. What once was the roof becomes the floor of the added story. The Terminator A2D6 rebar anchor/splice allows for the addition of new rebar without increasing the size of the component embedded in the concrete.

Recognized product approvals:
Austria: MA35 MA35B/B 558/99
Czechia: TZUS č 01-329
France: AFCAB M97 / 001
Germany: Z-1.5-200
Hong Kong: Hong Kong Building Dept.
Hungary: EMI A-2165-2002
The Netherlands: Komo K7045
Poland: ITB AT-15-4314
Slovakia: TSUS SK04-ZSV-1008,
United States: ICC-ES ER 3967
IAPMO® ES-0188

nVent LENTON TAPER THREADS
nVent LENTON mechanical rebar couplers are the most widely used system in the world. LENTON couplers and TERMINATORS for ASTM A615 grade 60 and A706 rebar are ICC® recognized (#3967) and meet or exceed the ACI 318, UBC® and IBC® full tension splices requirement for Type 1 and Type 2 splices. The unique taper threads provide a self aligning, positive lock system that is quickly engaged with only 4-1/2 turns. nVent LENTON also meets the requirements of all European codes such as BS8110, DIN 1045 and Eurocode 2.
Application Specific Benefits

From simple commercial buildings to complex structures, the Terminator system is used in a wide variety of projects.

**PROJECT LIST:**

- 301 Mission - High Rise Tower
  - San Francisco, CA USA
- Bareg Tunnel
  - Baden, Switzerland
- BWI Airport
  - Baltimore, MD USA
- Charlotte Motor Speedway
  - Charlotte, NC USA
- Cleveland NFL Stadium
  - Cleveland, OH USA
- Cooper River Bridge
  - Charleston, SC USA
- Daimler Chrysler
  - Stuttgart, Germany
- Disney Parking Garage
  - Anaheim, CA USA
- Galena Creek
  - Reno, NV USA
- Golden Ears Bridge
  - Vancouver, BC CANADA
- Hanford Nuclear Canister Storage Building
  - Hanford, WA USA
- Heathrow Airport Airside Road Tunnel
  - London, UK
- Highway 280
  - San Francisco, CA USA
- HQ2, Canary Wharf
  - London, UK
- Jack Murphy Stadium
  - San Diego, CA USA
- Kaufhaus Sparmarkt
  - Isenherts, Austria
- Las Vegas Monorail
  - Las Vegas, NV USA
- Malampaya Off Shore Oil Platform
  - Philippines
- Microsoft Campus - Augusta Building
- Redmond, WA USA
- MTA - Pasadena Blue Line - Metro Station
  - Pasadena, CA USA
- Museum of Natural Science
  - Raleigh, NC USA
- Ohio Stadium - Ohio State University
  - Columbus, OH USA
- Pac Bell Stadium
  - San Francisco, CA USA
- Petronas Towers
  - Kuala Lumpur, Malaysia
- San Francisco Intl Airport
  - San Francisco, CA USA
- Stratosphere Tower
  - Las Vegas, NV USA
- Tacoma Narrows Bridge
  - Tacoma, WA USA
- Trump Tower
  - Chicago, IL USA
- VEX Verglasungseinrichtung
  - Karlsruhe, Germany
- Vincent Thomas Bridge
  - Long Beach, CA USA
- Williamsburg Bridge
  - New York, NY USA

Future Extension

Terminator A2D6 can also be used for future extensions in both beam/column and roof/column connections.

The Terminator provides an alternative to hooked rebar, anchor or stop nut for rebar passing though a pile plank or structural steel element. The front face of the coupler is designed to carry the full tension load of the rebar when the anchor is bearing against concrete or structural steel.
## Terminator – D6 & D16

### TERMINATOR – D6

<table>
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<tr>
<th>Inch lb</th>
<th>Rebar Size Designation</th>
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<th>&quot;E&quot;</th>
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<td>Soft Metric</td>
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<td>mm</td>
<td>in</td>
<td>mm</td>
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<tr>
<td>4</td>
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<td>10M</td>
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<td>9/16</td>
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<td>5</td>
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<td>7/8</td>
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<td>48</td>
<td>1-1/8</td>
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<td>35M</td>
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<td>45M</td>
<td>43</td>
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<td>102</td>
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<tr>
<td>15</td>
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<td>–</td>
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</table>

NOTE: Thread does not need to be flush with end of Terminator. Thread may be +/- 2 threads from backside of coupler. Diameter exceeds 5x bar area requirements of ICC®-ES AC 347 & ACI®.

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### TERMINATOR – D16

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<th>&quot;E&quot;</th>
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<th>Weight</th>
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<td>Soft Metric</td>
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<td>in</td>
<td>mm</td>
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<td>3/4</td>
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</table>

NOTE: Thread does not need to be flush with end of Terminator. Thread may be +/- 2 threads from backside of coupler. Diameter exceeds 5x bar area requirements of ICC-ES AC347 & ACI.

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[Meets BS8110, UBC®, DIN1045, IBC, AS3600, ASTM® A970 and ACI318]

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A = large diameter  
B = length of coupler body  
D = bar engagement  
E = length of small step  
F = small diameter
Terminator – D14 & A2D6

Meets international standards, including BS8110, DIN1045, NFA-35-020, ACI®318, and ASTM® A970.

**TERMINATOR – D14**

**STANDARD IN THE AMERICAS*, EUROPE, THE MIDDLE EAST AND AFRICA**

<table>
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<th>“E”</th>
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<td></td>
<td></td>
<td>in</td>
<td>mm</td>
<td>in</td>
<td>mm</td>
<td>lb</td>
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*Available in select regions of U.S.

**TERMINATOR FOR FUTURE EXTENSION – A2D6**

**STANDARD IN THE AMERICAS**

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<th>Rebar Size Designation</th>
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<th>“E”</th>
<th>“F”</th>
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<td>in</td>
<td>mm</td>
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<td>8</td>
<td>25 mm</td>
<td>EL25A2D6</td>
<td>57</td>
<td>3-11/32</td>
<td>85</td>
<td>1-3/8</td>
<td>3.23</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>28 mm</td>
<td>EL28A2D6</td>
<td>70</td>
<td>3-19/32</td>
<td>91</td>
<td>1-1/2</td>
<td>5.29</td>
<td></td>
</tr>
<tr>
<td></td>
<td>32 mm</td>
<td>EL32A2D6</td>
<td>76</td>
<td>3-25/32</td>
<td>96</td>
<td>1-9/16</td>
<td>6.52</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>36 mm</td>
<td>EL36A2D6</td>
<td>83</td>
<td>3-31/32</td>
<td>101</td>
<td>1-11/16</td>
<td>7.97</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>43 mm</td>
<td>EL43TA2D6</td>
<td>102</td>
<td>5-1/4</td>
<td>133</td>
<td>2-1/8</td>
<td>14.64</td>
<td></td>
</tr>
<tr>
<td></td>
<td>50 mm</td>
<td>EL50TA2D6</td>
<td>130</td>
<td>6-15/32</td>
<td>164</td>
<td>2-3/4</td>
<td>14.64</td>
<td></td>
</tr>
</tbody>
</table>

For availability: Contact your local nVent representative.

*Bar dimensions and weights listed may vary by region. Coupler sizes not shown on these pages are available by special order. Contact your nVent representative for more information on special sizes. Article numbers used in Europe, Middle East, Africa and Asia exclusively.*
A Look At nVent LENTON Concrete Reinforcement Products

nVent LENTON has been a pioneer in the concrete construction industry for more than 40 years. We changed rebar splicing, first with CADWELD mechanical connections, then with the LENTON mechanical splicing system – the #1 mechanical connector in the world. nVent now offers a wide range of mechanical splices for almost any construction need:

- **CADWELD** – Premier mechanical splicing system
- **NVENT LENTON FORM SAVER** – Ideal for segmental pour
- **NVENT LENTON INTERLOK** – Ideal for precast structures
- **NVENT LENTON QUICK WEDGE** – Ideal for quick retrofit
- **NVENT LENTON SPEED SLEEVE** – Ideal for compression situations
- **NVENT LENTON TERMINATOR** – Ideal alternative to hooked rebar anchorage
- **NVENT LENTON LOCK** – Ideal for in-situ splices

The entire nVent LENTON line of mechanical rebar splices has replaced many conventional splicing systems, such as welding and lap splicing. Unlike butt welding, LENTON products require no special training or external power source, are quicker to install and inspect, reduce crane time, improve the tensile strength of the splice and can be installed in any weather.

As your rebar splicing specialist, nVent offers you the expertise you need for all your rebar splicing projects.

nVent Engineered Electrical & Fastening Solutions is a leading global manufacturer and marketer of superior engineered products for niche electrical, mechanical and concrete applications. These nVent products are sold globally under a variety of market-leading brands: ERICO welded electrical connections, facility electrical protection, and rail and industrial products; CADDY fixing, fastening and support products; ERIFLEX low voltage power and grounding connections; and LENTON engineered systems for concrete reinforcement.

For more information on ERICO, CADDY, ERIFLEX and LENTON, please visit nVent.com/ERICO.

### NVENT LENTON TERMINATOR

**HOW TO ORDER:**
To order the correct LENTON Terminator for your construction applications, please call your local nVent office location listed on the back cover.

**HOW TO SPECIFY:**
**Specific:** Rebar terminations shall be LENTON Terminator as manufactured by nVent.

**Generic:** The rebar terminations shall meet building code requirements, as required, by local norms/codes. The rebar terminations shall be positive locking, taper threaded type anchor manufactured from high quality steel. The bar end must be taper threaded using the manufacturer’s bar threading equipment to ensure proper taper and thread engagement. Bars shall be installed to the manufacturer’s requirements. The anchors shall be manufactured using registered quality systems around the world.

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**WARNING**
nVent products shall be installed and used only as indicated in nVent’s product instruction sheets and training materials. Instruction sheets are available at nVent.com/ERICO and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent’s instructions and warnings may cause product malfunction, property damage, serious bodily injury and/or death, and void your warranty.

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nVent.com/LENTON | 7
Our powerful portfolio of brands:

CADDY  ERICO  HOFFMAN  RAYCHEM  SCHROFF  TRACER