

CONNECT AND PROTECT

nVent LENTON Terminator

For Rebar Anchorage

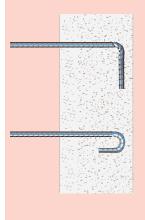


Hooked Rebar Anchorage vs. nVent LENTON Terminator

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?

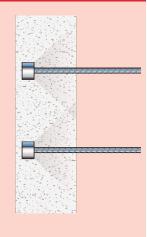


HOOKED REBAR ANCHORAGE

- 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

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 TERMINATOR WORKS

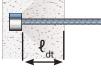
The Terminator design builds on the extensive testing conducted for headed anchors. Most recently the American Concrete Institute (ACI®) published Building Code Requirements (318-08) defining the development of headed and mechanically anchored deformed bars in tension (Section 12.6). Additionally, the International Building Code (IBC®) references ACI 318. 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:

> Terminator Embedment* 15" (381 mm) Hooked Rebar Embedment 19" (483 mm)

20% reduction in development length.

44% less rebar congestion in the anchorage zone plus related labor savings.

* 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



TENSION DEVELOPMENT LENGTHS FOR HEADED REINFORCING UNCOATED BARS (ACI)

Bar Size ASTM	f′c = 3,000 psi	f′c = 4,000 psi	f′c = 5,000 psi	f′c = 6,000 psi
#4	9	8	7	6
#5	11	10	9	8
#6	13	12	10	10
#7	16	14	12	11
#8	18	15	14	13
#9	20	17	16	14
#10	23	20	18	16
#11	25	22	19	18

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.



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



1 inch = 24 milimeters

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 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 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 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.



LENTON TAPER THREADS

LENTON mechanical rebar couplers are the most widely used system in the world. LENTON couplers and LENTON 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. LENTON also meets the requirements of all European codes such as BS8110, DIN 1045 and Eurocode 2.

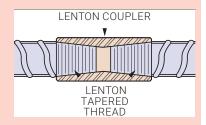
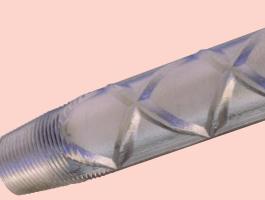


TABLE OF CONTENTS

Hooked Rebar Anchorage	
vs. Terminator1	-2
Project References	. 3
Application Specific Benefits	. 3
Terminator - D6 & D16	. 4
Terminator - D14 & A2D6	. 5
Other LENTON Concrete Reinforcement Products	. 6
How to Specify Terminator	6



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, T0-07/0080 United States: ICC-ES ER 3967 IAPM0® ES-0188

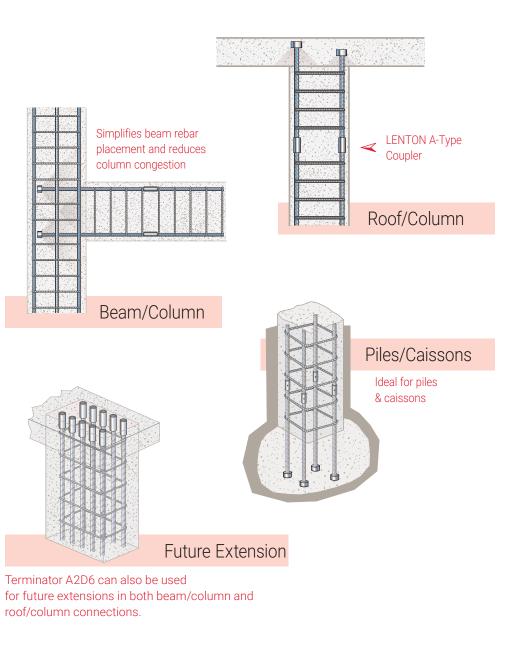
PROJECT REFERENCES

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 Stutgartt, 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 Phillippines 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 Int'l Airport San Francisco, CA USA Stratosphere Tower Las Vegas, NV USA Tacoma Narrows Bridge Tacoma, WA USA Trump Tower Chicago, IL USA VEK Verglasungseinrichtung Karlsruhe, Germany Vincent Thomas Bridge Long Beach, CA USA Williamsburg Bridge New York, NY USA

Application Specific Benefits



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.

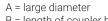


Terminator – D6 & D16

TERMINATOR - D6

Rebar Size Designation			Part	"A"		"В"		"E"		"F"		Weight	
Metric	Canadian	Soft Metric	No.	in	mm	in	mm	in	mm	in	mm	lb	kg
12 mm	10M	13	EL12D6	1-3/8	35	9/16	14	-	-	-	-	0.2	0.09
16 mm	15M	16	EL16D6	1-1/2	38	7/8	22	-	-	-	-	0.4	0.18
20 mm	20M	19	EL20D6	1-7/8	48	1-1/8	29	-	-	-	-	0.8	0.36
22 mm	-	22	EL22D6	2	51	1-1/4	32	-	-	-	-	1.0	0.45
25 mm	25M	25	EL25D6	2-1/4	57	1-3/8	35	-	-	-	-	1.3	0.59
28 mm	30M	29	EL28D6	2-3/4	70	1-1/2	38	-	-	-	-	2.2	1.00
32 mm	-	32	EL32D6	3	76	1-9/16	40	-	-	-	-	2.7	1.22
36 mm	35M	36	EL36D6	3-1/4	83	1-11/16	43	-	-	-	-	3.4	1.54
40 mm	-	_	EL40D6	3-3/4	95	2-1/2	64	1	25	3	76	5.5	2.49
43 mm	45M	43	EL43TD6	4	102	2-1/8	54	1	25	3	76	4.9	2.22
50 mm	-	_	EL50TD6	4-1/2	114	2-9/16	65	1	25	3	76	7.1	3.22
57 mm	55M	57	EL57TD6	5-1/8	130	2-3/4	70	1	25	3	76	9.8	4.45
	Metric 12 mm 16 mm 20 mm 22 mm 25 mm 28 mm 32 mm 36 mm 40 mm 43 mm 50 mm	Metric Canadian 12 mm 10M 16 mm 15M 20 mm 20M 22 mm - 25 mm 25M 28 mm 30M 32 mm - 36 mm 35M 40 mm - 43 mm 45M 50 mm -	Metric Canadian Soft Metric 12 mm 10M 13 16 mm 15M 16 20 mm 20M 19 22 mm - 22 25 mm 25M 25 28 mm 30M 29 32 mm - 32 36 mm 35M 36 40 mm - - 43 mm 45M 43 50 mm - -	Metric Canadian Soft Metric Part 12 mm 10M 13 EL12D6 16 mm 15M 16 EL16D6 20 mm 20M 19 EL20D6 22 mm - 22 EL2D6 25 mm 25M 25 EL22D6 28 mm 30M 29 EL28D6 32 mm - 32 EL32D6 36 mm 35M 36 EL30D6 40 mm - - EL40D6 43 mm 45M 43 EL43TD6 50 mm - EL50TD6 EL50TD6	MetricCanadianSoft MetricNo.in12 mm10M13EL12D61-3/816 mm15M16EL16D61-1/220 mm20M19EL20D61-7/822 mm-22EL22D6225 mm25M25EL25D62-1/428 mm30M29EL28D6332 mm-32EL32D6336 mm35M36EL36D63-1/440 mmEL40D63-3/443 mm45M43EL43TD6450 mmEL50TD64-1/2	MetricCanadianSoft MetricNo.inmm12 mm10M13EL12D61-3/83516 mm15M16EL16D61-1/23820 mm20M19EL20D61-7/84822 mm-22EL22D625125 mm25M25EL25D62-1/45728 mm30M29EL28D62-3/47032 mm-32EL32D637636 mm35M36EL36D63-1/48340 mmEL40D63-3/49543 mm45M43EL43TD6410250 mmEL50TD64-1/2114	PartPartMetricCanadianSoft MetricNo.inmmin12 mm10M13EL12D61-3/8359/1616 mm15M16EL16D61-1/2387/820 mm20M19EL20D61-7/8481-1/822 mm-22EL22D62511-1/425 mm25M25EL25D62-1/4571-3/828 mm30M29EL28D62-3/4701-1/232 mm-32EL32D63761-9/1636 mm35M36EL36D63-1/4831-11/1640 mmEL40D63-3/4952-1/243 mm45M43EL43TD641022-1/850 mmEL50TD64-1/21142-9/16	MetricCanadianSoft MetricNo.inmminmm12 mm10M13EL12D61-3/8359/161416 mm15M16EL16D61-1/2387/82220 mm20M19EL20D61-7/8481-1/82922 mm-22EL2D62511-1/43225 mm25M25EL25D62-1/4571-3/83528 mm30M29EL28D62-3/4701-1/23832 mm-32EL32D63761-9/164036 mm35M36EL30D63-1/4831-11/164340 mmEL40D63-3/4952-1/26443 mm45M43EL43TD641022-1/854	MetricCanadianSoft MetricNo.inmminmmin12 mm10M13EL12D61-3/8359/1614-16 mm15M16EL16D61-1/2387/822-20 mm20M19EL20D61-7/8481-1/829-22 mm-22EL2D62511-1/432-25 mm25M25EL25D62-1/4571-3/835-28 mm30M29EL28D62-3/4701-1/238-32 mm-32EL32D63-1/4831-11/640-36 mm35M36EL36D63-1/4831-11/1643-40 mmEL43D63-3/4952-1/264143 mm45M43EL43TD641022-1/8541	MetricCanadianSoft MetricNo.inmminmminmminmm12 mm10M13EL12D61-3/8359/161416 mm15M16EL16D61-1/2387/82220 mm20M19EL20D61-7/8481-1/82922 mm-22EL2D621/4511-1/43225 mm25M25EL2D62-1/4571-3/83528 mm30M29EL2B62-3/4701-1/23832 mm-32EL3D63-1/4831-1/164036 mm35M36EL32D63-1/4831-11/164340 mmEL32D63-1/4831-11/164343 mm45M36EL32D63-1/4831-11/164336 mm35M36EL32D63-1/4831-11/164340 mmEL43D63-1/4831-11/164312543 mm45M43EL43TD641022-1/85412550 mmEL50TD64-1/21142-9/1665125	MetricCanadianSoft MetricNo.inmminmminmminmmin12 mm10M13EL12D61-3/8359/161416 mm15M16EL16D61-1/2387/82220 mm20M19EL20D61-7/8481-1/82922 mm-22EL2D62511-1/43225 mm25M25EL2D62-1/4571-3/83528 mm30M29EL28D62-3/4701-1/23832 mm-32EL32D63-3/4701-1/23836 mm35M36EL32D63-3/4761-9/164040 mmEL30D63-1/4831-11/164340 mmEL40D63-3/4952-1/2641253343 mm45M43EL43TD641022-1/8541253350 mmEL50TD64-1/21414551253	MetricCanadianSoft MetricNo.inmmininmminmminmminmmin<	MetricCanadianSoft MetricNo.inmmininmmininmmininmmininmmininmmininmmininmmininmmininmmininmmininmmininmmininmmininmmininmmininmmininmminininmmininmmininmmininmmininmmininmmininmmininmmininmmininmmininmmin<

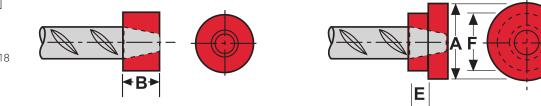
NOTE: Thread does not need to be flush with end of Terminator. Thread may be +/- 2 threads from backside of coupler. Diameter exceeds 5x bar area requirements of ICC®-ES AC 347 & ACI®.



- B = length of coupler body
- D = bar engagement
- E = length of small step
- F = small diameter



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



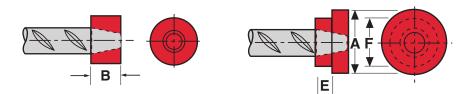
TERMINATOR - D16

Inch	Rebar Size Designation			Part	"A"		"В"		"E"		"F"		Weight	
lb	Metric	Canadian	Soft Metric	No.	in	mm	in	mm	in	mm	in	mm	lb	kg
4	12 mm	10M	13	EL12D16	1-3/8	28	3/4	19	-	-	-	-	0.3	0.13
5	16 mm	15M	16	EL16D16	1-1/2	36	15/16	24	-	-	-	-	0.4	0.16
6	20 mm	20M	19	EL20D16	1-7/8	45	1-3/8	35	-	-	-	-	0.9	0.41
7	22 mm	-	22	EL22D16	2	50	1-7/16	38	-	-	-	-	1.1	0.50
8	25 mm	25M	25	EL25D16	2-1/4	60	1-9/16	40	_	-	-	-	1.5	0.68
9	28 mm	30M	29	EL28D16	2-3/4	65	1-5/8	42	-	-	-	-	2.4	1.10
10	32 mm	-	32	EL32D16	3	75	1-3/4	46	-	-	-	-	3.1	1.39
11	36 mm	35M	36	EL36D16	3-1/4	85	2-1/16	52	_	-	-	-	3.7	1.84
-	40 mm	-	-	EL40D16	3-3/4	90	2-1/4	58	-	-	-	-	5.1	2.22
14	43 mm	45M	43	EL43TD16	4	100	2-1/2	67	1	25	3	76	6.7	2.90
-	50 mm	-	-	EL50TD16	4-1/2	115	2-11/16	71	1	25	3	76	8.3	3.66
18	57 mm	55M	57	EL57TD16	5-1/8	130	3-3/16	84	1	25	3	76	12.7	5.65
18	57 mm	55M	57	EL57TD16	5-1/8	130	3-3/16	84	1	25	3	76	12.7	5.6

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.

Terminator - D14 & A2D6

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



D

B

E |---

TERMINATOR – D14

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

Inch	Rebar Size	Designation			"/	"A" "B"		"Е	"	"	Weight			
lb	Metric	Canadian	Soft Metric	Part No.	in	mm	in	mm	in	mm	in	mm	lb	kg
3	10 mm	-	_	EL10D14	1-3/8	35	11/16	18	-	-	-	-	0.3	0.13
4	12 mm	10M	13	EL12D14	1-3/4	45	11/16	18	-	-	-	-	0.5	0.22
-	14 mm	-	_	EL14D14	1-3/4	45	13/16	21	-	-	-	-	0.5	0.25
5	16 mm	15M	16	EL16D14	2	55	15/16	24	-	-	-	-	0.8	0.42
-	18 mm	-	_	EL18D14	2-1/2	60	1-1/8	29	-	-	-	-	1.5	0.61
6	20 mm	20M	19	EL20D14	2-1/2	65	1-3/8	35	-	-	-	-	1.8	0.84
7	22 mm	-	22	EL22D14	2-3/4	70	1-7/16	37	-	-	-	-	2.3	1.04
8	25 mm	25M	25	EL25D14	3-1/4	80	1-9/16	40	-	-	-	-	3.4	1.45
9	28 mm	30M	29	EL28D14	3-3/4	95	1-5/8	42	1	25	3-1/8	80	3.9	1.76
-	30 mm	-	-	EL30D14	3-3/4	95	2-1/16	52	1	25	3-1/8	80	5.0	2.26
10	32 mm	-	32	EL32D14	4	105	1-3/4	45	1	25	3-1/8	80	4.5	2.14
-	34 mm	-	-	EL34D14	4-3/8	110	2-3/16	55	1	25	3-1/8	80	6.6	2.94
11	36 mm	35M	36	EL36D14	4-1/2	115	2-1/16	52	1	25	3-1/8	80	6.2	2.84
-	38 mm	-	-	EL38D14	4-3/4	120	2-1/8	53	1	25	3-1/8	80	6.9	3.12
-	40 mm	-	-	EL40D14	5	130	2-1/4	58	1	26	2-3/8	58	7.2	3.41
14	43 mm	45M	43	EL43TD14	5-1/2	150	2-5/8	67	1-5/16	34	2-1/2	61	9.1	4.73
-	50 mm	-	-	EL50TD14	6-1/2	160	2-13/16	71	1-5/16	33	3-1/8	80	14.9	6.38
18	57 mm	55M	57	EL57TD14	7-1/2	190	3-5/16	84	1-5/8	41	3-1/8	80	21.5	9.72

Meets BS8110, UBC®, IBC®,

AS3600 and ACI318

*Available in select regions of U.S.

- A = large diameter
- B = length of coupler body
- D = Bar engagement
- E = length of small step
- F = small diameter

TERMINATOR FOR FUTURE EXTENSION - A2D6

STANDARD IN THE AMERICAS

Inch	Rebar Size Designation		ar Size Designation Soft		"A"		"В"		"D"		"E"		"F"		Weight	
lb	Metric	Canadian	Metric	Part No.	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
4	12 mm	10M	13	EL12A2D6	1-3/8	35	1-5/8	41	9/16	14	-	-	-	-	0.62	0.28
5	16 mm	15M	16	EL16A2D6	1-1/2	38	2-3/16	56	7/8	22	-	-	-	-	0.95	0.43
6	20 mm	20M	19	EL20A2D6	1-7/8	48	2-13/16	71	1-1/8	29	-	-	-	-	1.92	0.87
7	22 mm	-	22	EL22A2D6	2	51	3-5/32	80	1-1/4	32	-	-	-	-	2.43	1.10
8	25 mm	25M	25	EL25A2D6	2-1/4	57	3-11/32	85	1-3/8	35	-	-	-	-	3.23	1.47
9	28 mm	30M	29	EL28A2D6	2-3/4	70	3-19/32	91	1-1/2	38	-	-	-	_	5.29	2.40
10	32 mm	-	32	EL32A2D6	3	76	3-25/32	96	1-9/16	40	-	-	-	-	6.52	2.96
11	36 mm	35M	36	EL36A2D6	3-1/4	83	3-31/32	101	1-11/16	43	-	-	-	-	7.97	3.62
14	43 mm	45M	43	EL43TA2D6	4	102	5-1/4	133	2-1/8	54	1	25	3	76	14.64	6.65
18	57 mm	55M	57	EL57TA2D6	5-1/8	130	6-15/32	164	2-3/4	70	1	25	3	76	28.44	12.93

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 LENTON Concrete Reinforcement Products

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 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.

TERMINATOR

HOW TO ORDER:

To order the correct 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.

We reserve the right to make any alterations to the information contained in this brochure which we consider to be either necessary or advantageous. This brochure is designed to provide only preliminary information on the products and is not a contract. The Company does not accept any liability for loss or damage arising from failure to follow its instructions to products not agreed by it.

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.





Our powerful portfolio of brands:

CADDY ERICO HOFFMAN RAYCHEM SCHROFF TRACER



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