

LENTON®

LENTON® The Rebar Splicing Specialists for Nuclear Construction



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ERICO®

LENTON® – Experience Makes the Difference

International Codes & Standards

ERICO® mechanical splices meet the requirements of ISO 9001:2000 and the following major international codes and standards:

-  Australia
AS3600
-  Austria
ÖNORM B 4700
-  Brazil
abnt – nbr 8548 – ago/84
-  Canada
CAN/CSA - N287.2
CAN/CSA - N287.3
CAN/CSA - N287.4
-  Chile
NCH 204
-  China
GB 1499-91
-  Finland
BY 4B
-  France
NF A 35-020-1
-  Germany
DIN 1045
-  Japan
JIS G3112
-  Malaysia
MS146
-  Netherlands
NEN 6720 / NEN 6723
-  United Kingdom
BS 8110
BNFL
-  United States
AASHTO®; ACI® 318-2008;
ACI 349; ACI 359 /
ASME®-III div 2,
ASME QSC, ICBO, ICC,
NQA-1, NRC, UBC® 1997;
U.S. Army Corps of
Engineers



ERICO® is a worldwide leader in the design and manufacturing of advanced mechanical rebar splicing systems. With more than 40 years experience, the Rebar Splicing Specialists at ERICO understand the concrete construction business. Our engineering capabilities and broad experience, combined with our multiple splicing and anchorage systems, allow us to provide engineers and contractors solutions to even the most demanding rebar splicing applications.

Considered the rebar connections of choice, LENTON® and CADWELD® mechanical splices have been used in over 200 nuclear power plants, and dozens of related nuclear processing projects worldwide. ERICO has a history of successfully supporting multiple large projects simultaneously. This proven expertise exemplifies true quality and service you can count on. ERICO systems are ISO 9001:2000, NQA-1, and ASME®-QSC certified. You can trust ERICO to provide the quality systems and protocol to immediately support your needs.



LENTON® – Tested Over Time

LENTON and CADWELD mechanical rebar splices are the most tested splices on the market and meet the codes of most national and international regulatory organizations. With over 25,000 tensile field tests performed, you can be assured our products are designed to meet your required performance. Our library of test data includes test programs such as high-impact testing (blast), cryogenic testing, misalignment testing, fatigue testing (cyclic/seismic), ACI 359/ASME-III Div 2, ACI 349, and many more.



LENTON® – Engineering Solutions and Support

ERICO can provide a solution to meet your most demanding application. With our staff of qualified, experienced engineers and test equipment capable of testing 57 (#18) mm rebar to Ultimate Tensile strength, we have the ability to produce custom products that will meet your design needs.

The LENTON® Rebar Splicing Family



A LENTON® LOCK

LENTON LOCK is an in-situ rebar splice that requires no bar-end preparation. It is ideal for repair, new construction, bent bar or retrofit applications. The LENTON LOCK coupler features patented gripping technology that provides for the development of full rebar strength and improved overall structural integrity in tension, compression, stress reversal and dynamic applications. Ideal for use in column splicing, piling, splicing to protruding dowels cast in concrete, closure pours, beams, mats, and other demanding splicing applications.

B LENTON® and LENTON® PLUS TAPER THREADED SPLICES

LENTON standard couplers are some of the slimmest couplers available and their tapered thread makes them the most reliable, easy to install and cost effective system. The LENTON taper threaded range consists of standard and transition couplers as well as positional couplers to join bars of any shape, size and diameter. Also weldable and bolt couplers are available for joining structural steel to reinforced concrete. Whatever your performance demands require, whether it be seismic, blast or bar break capabilities, LENTON has a system to meet your most demanding design requirements.

C LENTON® FORM SAVER

LENTON FORM SAVER is ideal for eliminating protruding dowel bars in segmental pour applications and temporary openings. It is uniquely designed with the LENTON tapered thread, factory installed thread protector and nailing plate for easy attachment to the form. Ideal for jump form, slip form and flying form construction.

D CADWELD®

CADWELD rebar splices are used where strength and toughness are critical. CADWELD – the world's premier mechanical splicing system – offers consistency as well as versatility and flexibility. The CADWELD rebar splicing system is the most used system in nuclear construction worldwide. CADWELD is also used for curved radius bars and for no bar end preparation applications where new reinforcement is connected to existing reinforcement.

E LENTON® TERMINATOR

LENTON TERMINATOR is a taper-threaded anchorage, which is secured to the end of a length of reinforcing steel bar and is capable of creating a more effective anchorage than the traditional hooked rebar. This approach greatly simplifies rebar placement, reduces congestion and improves structural integrity.

Nuclear Projects Built Using LENTON® Systems and CADWELD® Rebar Splices

Argentina

Atucha 2 (Lima, Buenos Aires)

Brazil

Angra 1 (Itaorna)

China

Daya Bay Phase 1 (Guangdong)

Canada

Gentilly 2 (Becancour, Que.)

Pickering (Pickering, Ont.) 1, 2, 3, 4

Point Lepreau (Bay Of Fundy, N.B.)

Finland

Olkiluoto 3

France

Andra Nuclear Waste Deposit

Bugey 1 (Ain) 1, 2, 3

Dampierre (Loiret) 1, 2, 3

Fessenheim (Haut-Rhin) 1, 2

La Hague

Saint-Laurent-Des Eaux (Loir-Et-Cher) 1, 2

Tricastin 1 (Drome)

Germany

Kernforschungszentrum Garching

Kernkraftwerk Brokdorf

Kernkraftwerk Esenshamm/Unterweser

Verglasungseinrichtung Karlsruhe

Zwischenlager Pka Gorleben

Italy

Caorso (Caorso, Placenza)

Montalto D1 Castro 1, 2

Korea

Kedo Unit 1 (Hamkyungnam-Do, Dprk)

Kori Unit (Pusan) 1, 2, 3, 4

Shin Kori Unit (Pusan) 1, 2

Shin Wolsung Unit (Gyeongju) 1, 2

Ulchin Unit (Kyougbuk) 1, 2, 3, 4, 5, 6

Wolsung Unit (Gyeongju) 1, 2, 3, 4

Yonggwang Unit (Jun Nam) 1, 2, 3, 4, 5, 6

Mexico

Laguna Verde (Laguna Verde Veracruz) 1, 2

Netherlands

Borselle Covra Habog

Philippines

Philippine National Power Plant 1

(Morong, Battan Luzon)

South Africa

Koebeg (Near Cape Town) 1, 2

Spain

Almaraz (Almaraz, Caceres) 1, 2

Asco (Asco, Tarragona) 1, 2

Cabo Cope (Cope Province Of Murcia)

Confrentes (Cofrentes, Valencia)

Fuerzas Electricas De Cataluna S. A.

Lemoniz (Lemoniz, Vizcaya) 1, 2

Santa Maria Degarona

(Santa Maria De Garona, Burgos)

Sayago (Sayago, Zamora)

Trillo (Trillo, Guad.) 1, 2

Valdecaballeros (Badajoz) 1, 2

Vandellos 2 (Tarragona)

Sweden

Forsmark 1 (Uppsala)

Ringhals (Varberg) 1, 2

Taiwan

Kuosheng (Kuosheng) 1, 2

Maanshan 1 (Maanshan)

United Kingdom

Berckley Power Station

Hunterston Power Station

Sellafield Thorp Thermal

Oxidation Reprocessing Plant

Sellafield Vit 1 & 2 Vitrification Plants

Sellafield Ep1 Encapsulation Plant 1

Sellafield Eps1 Encapsulation Plant Store 1

Sellafield Eps2 Encapsulation Plant Store 2

Sellafield Vit3 Vitrification 3

Sellafield DP3 Drypack Store

Sellafield Bep Box Encapsulation Plant

Sizewell Power Station

Torness Power Station

United States

Beaver Valley (Shippingport, PA) 1, 2

Bellefonte (Scottsboro, AL) 1, 2

Braidwood (Braidwood, IL) 1, 2

Browns Ferry (Decatur, AL) 1, 2, 3

Brunswick (Southport, NC) 1, 2

Byron (Byron, IL) 1, 2

Callaway 1 (Fulton, MO)

Calvert Cliffs (Lusby, MD) 1, 2

Carroll County (Savanna, IL) 1, 2

Catawba (Clover, SC) 1, 2

Clinton (Clinton, IL) 1, 2

Comanche Peak (Glen Rose, TX) 1, 2

Cooper (Brownsville, NE)

Crystal River 3 (Red Level, FL)

Davis-Besse 1 (Oak Harbor, OH)

Diablo Canyon (Avila Beach, CA) 1, 2

Donald C. Cook 2 (Bridgman, MI)

Dresden (Morris, IL) 1, 2, 3

Duane Arnold (Palo, IA)

Edwin I. Hatch (Baxley, GA) 1, 2

Fermi 2 (Newport, MI)

Fort Calhoun 1 (Ft. Calhoun, NE)

Fort St. Vrain (Platteville, CA)

Grand Gulf (Port Gibson, MS) 1, 2

Haddam Neck (Haddam Nexct, CT)

Hanford-N (Richland, WA)

Hartsville (Hartsville, TN) A1, A2

Hope Creek 1 (Salem, NJ)

Indian Point (Indian Point, NY) 2, 3

James A. Fitzpatrick (Scriba, NY)

Joseph M. Farley (Dothan, AL) 1, 2

Lasalle County (Seneca, IL) 1, 2

Limerick (Pottstown, PA) 1, 2

Los Alamos, NM

Maine Yankee (Wiscasset, ME)

Marble Hill (Jefferson County, IN) 1, 2

McGuire (Cornelius, NC) 1, 2

Midland (Midland, MI) 1, 2

Millstone (Waterford, CT) 1, 2, 3

Monticello (Monticello, MN)

MOX - Mixed Oxide Fuel (Aiken, SC)

Nine Mile Point (Scriba, NY) 1, 2

North Anna (Mineral, VA) 1, 2

Nuclear One (Russellville, AR) 1, 2

Oconee (Seneca, SC) 1, 2, 3

Oyster Creek 1 (Forked River, NJ)

Palisades (South Haven, MI)

Palo Verde (Wintersburg, AZ) 1, 2, 3

Peach Bottom (Peach Bottom, PA) 2, 3

Perry (North Perry, OH) 1, 2

Pilgrim 1 (Plymouth, MA)

Point Beach (Two Creeks, WI) 1, 2

Prairie Island (Red Wing, MN) 1, 2

Quad-Cities (Cordova, IL) 1, 2

Rancho Seco (Clay Station, CA)

River Bend (St. Francisville, LA) 1, 2

Robert E. Ginna (Ontario, NY)

Robinson 2 (Hartsville, SC)

Salem (Salem, NJ) 1, 2

San Onofre (San Clemente, CA) 1, 2, 3

Savannah River (Aiken, SC)

Seabrook (Seabrook, N.H.) 1, 2

Sequoyah (Daisy, TN) 1, 2

Shearon Harris (Newhill, NC) 1, 2

Shoreham (Brookhaven, NY)

Skagit-Hanford (Hanford, WA) 1, 2

South Texas Project (Palacios, TX) 1, 2

St. Lucie (Hutchinson Island, FL) 1, 2

Surry (Gravel Neck, VA) 1, 2

Susquehanna (Berwick, PA) 1, 2

Three Mile Island (Londonderry TWP, PA) 1, 2

Turkey Point (Florida City, FL) 3, 4

Vermont Yankee (Vernon, VT)

Virgil C. Summer 1 (Parr, SC)

Vogtle 1 (Waynesboro, GA)

Waterford 3 (Taft, LA)

Watts Bar (Spring City, TN) 1, 2

West Valley Nuclear, NY

WNP (Richland, WA) 1, 2

Wolf Creek (Burlington, KS)

Yellow Creek (Luka, MS) 1, 2

Zimmer 1 (Moscow, OH)

Zion (Zion, IL) 1, 2

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ASME is a registered trademark of the American Society of Mechanical Engineers.

UBC (Uniform Building Code) is a registered trademark of the International Conference of Building Officials.

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