Leviat®
A CRH COMPANY

MOMENT

GENERAL PRODUCT BROCHURE

We are one team.
We are Leviat.

Leviat is the new name of CRH's construction accessories companies worldwide.

Under the Leviat brand, we are uniting the expertise, skills and resources of Halfen Moment and its sister companies to create a world leader in fixing, connecting and anchoring technology.

The products you know and trust, Moment building products will remain an integral part of Leviat's comprehensive brand and product portfolio.

As Leviat, we can offer you an extended range of specialist products and services, greater technical expertise, a larger and more agile supply chain and better, faster innovation.

By bringing together CRH's construction accessories family as one global organisation, we are better equipped to meet the needs of our customers, and the demands of construction projects, of any scale, anywhere in the world.

This is an exciting change. Join us on our journey.

Read more about Leviat at Leviat.com

Our product brands include:

Ancon

HALFEN

MOMENT

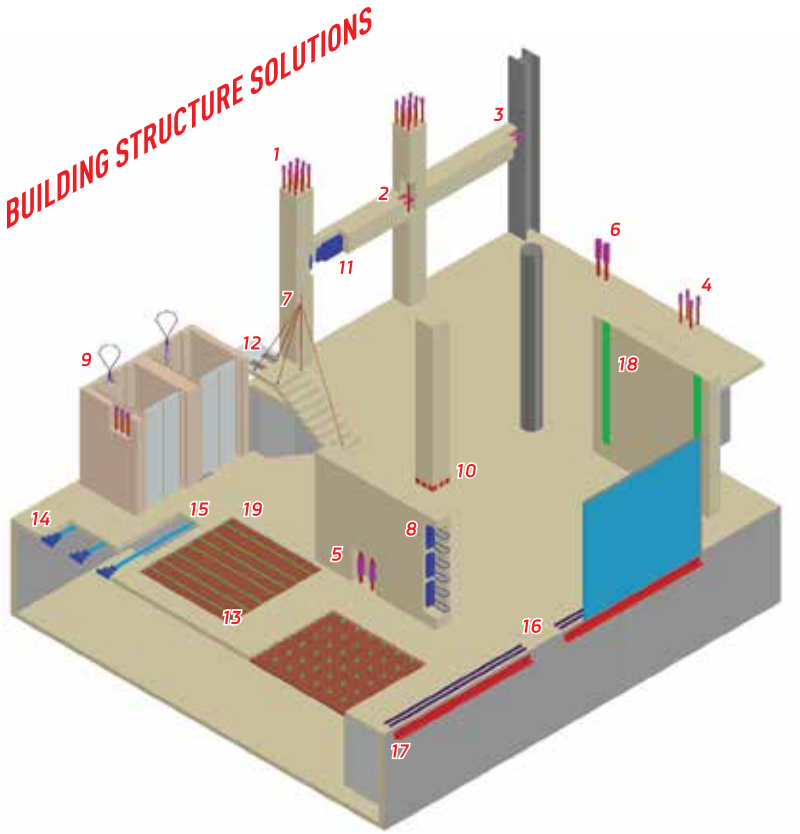
PLAKA

Imagine. Model. Make.

Leviat.com

INTRODUCING MOMENT PRODUCTS

The building structure illustrates various examples of how our products can be used in a construction; from suspended concrete façade elements to waterproofing, providing solutions and possibilities for a faster, safer and better construction.



Mechanical Splices

1 Moment JoinTec Coupler

2 Moment Terminator Coupler

3 Moment Weldable Coupler

4 Moment RT Coupler

5 Moment Grout Coupler

6 Moment MBC Coupler

Precast Technologies

7 Moment Spherical Head Lifting System

8 Moment Wire Loop Box

9 Moment Threaded Lifting System

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Anchoring In Concrete

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17 HALFEN Anchor Bolt System

Reinforcement Products

18 Moment Bar Box

19 Concrete Spacer

WHERE TO FIND MOMENT PRODUCTS IN A PRECAST STRUCTURE?

Planning and building modern, large commercial and manufacturing buildings withaout precast concrete products is unimaginable. From connection technology to reinforcement technology, we deliver the right solutions for your precast structure. Our dedicated and highly skilled engineers are continually working to improve and further develop Moment products.

Precast Technologies

1 
Moment Spherical Head Lifting System

2 
Moment Wire Loop Box

3 
Moment Threaded Insert

4 
Moment Threaded Lifting System

5 
Moment Connection Loop

6 
Moment Precast Shoe

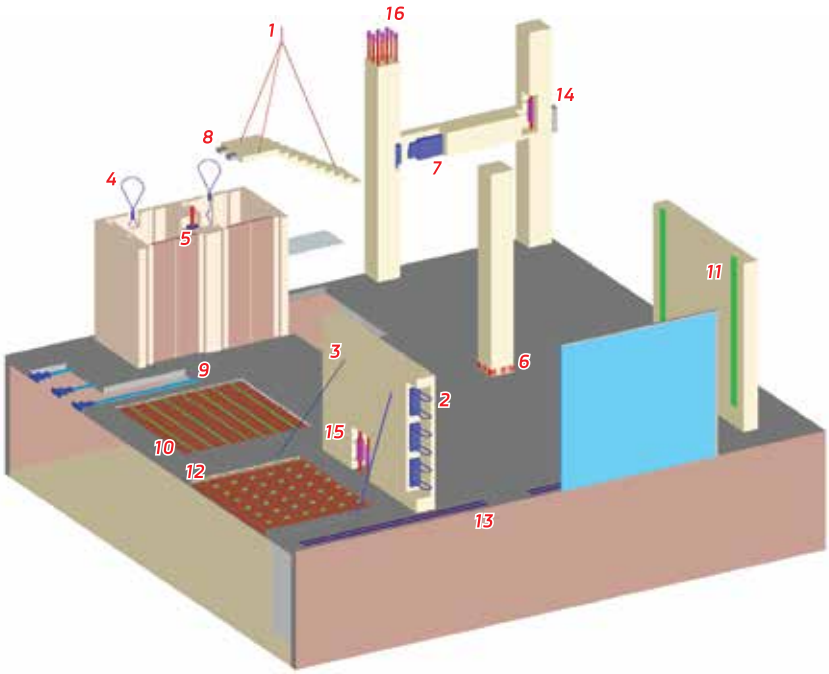
7 
BSF Telescopic Beam Connectors

8 
TSS Telescopic Stair Connector

9 
Moment Corrugated Duct

10 
Moment Fast Spacer

PRECAST STRUCTURE / INDUSTRIALIZED BUILDING SYSTEM (IBS)



Reinforcement Products

11 
Moment Bar Box

12 
Concrete Spacer

Anchoring In Concrete

13 
HALFEN Cast-In Channel

Mechanical Splices

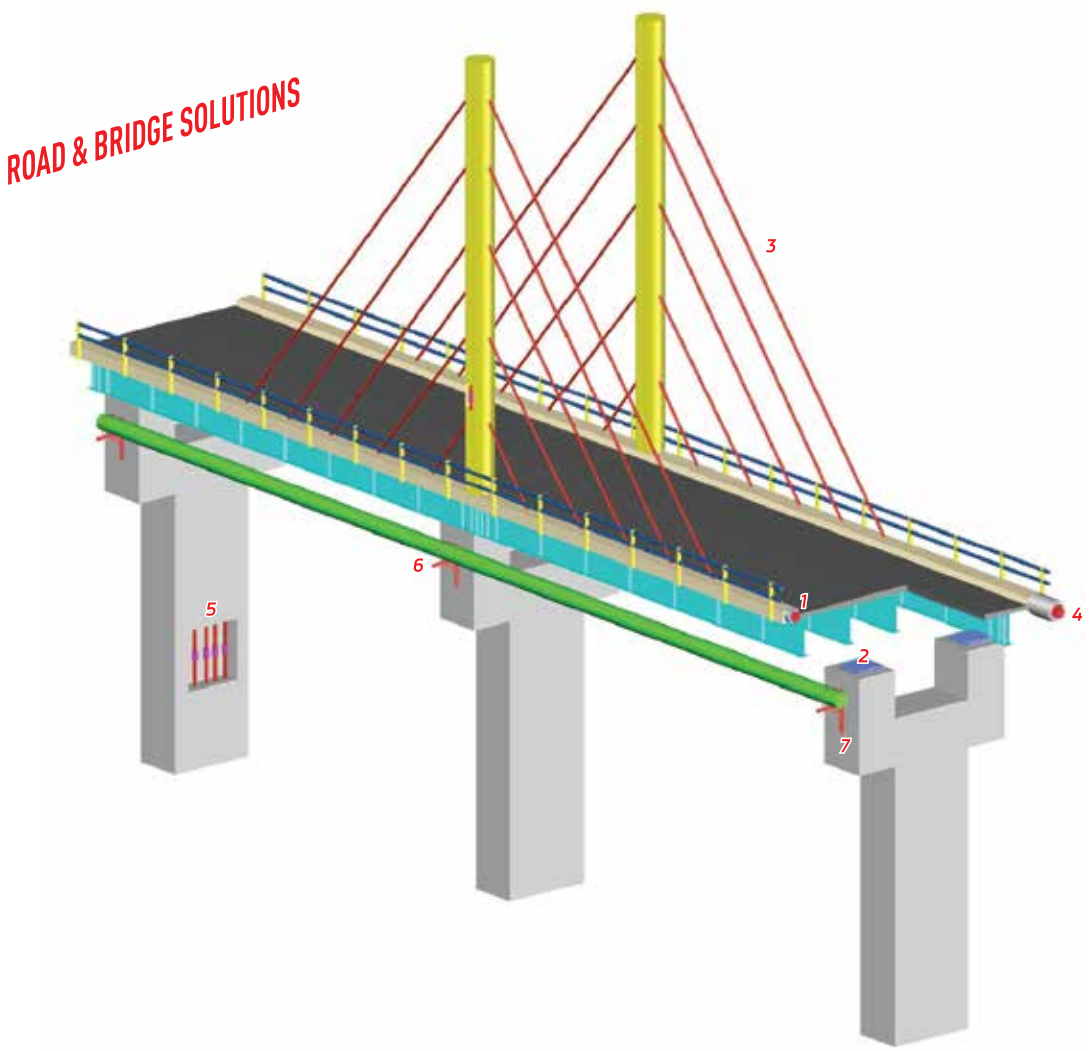
14 
Moment Full Grout Coupler

15 
Moment Grout Coupler

16 
Moment JoinTec Coupler

BRIDGING THE FUTURE WITH QUALITY PRODUCTS

We supply advanced materials for the road and bridge construction industry, we play a crucial role in the infrastructure construction by providing European Technical Approved post tensioning system, pot bearing and stay cable system to sacrificial formwork.



Post Tensioning & Bridge Applications


1 MK4 Post Tensioning System


2 MK4 Pot Bearing


3 MK4 DMK Stay Cable System


4 Stressing Jack

Mechanical Splices


5 Moment Coupler

Anchoring In Concrete


6 HALFEN Cast-In Channel


7 HALFEN Cantilevers

MOMENT COUPLER

With more than 20 years of experience in the coupler industry, we pride ourselves for our persistent development and continual products improvement. Today, Moment couplers are trusted and used by clients worldwide for numerous prestigious projects, demonstrating its superior safety, quality and reliability.

THE ADVANTAGES

The need for a more efficient splicing system is becoming more apparent as a result of the increasing construction complexities and design requirements.

The advantages of mechanical couplers vs lapped joints:

- Congestion of rebars with lapped joints, affecting the integrity of the structure. This can be avoided by using couplers.
- Minimize concrete/steel ratio, reduces concrete volume.
- Decreased concrete sections will maximize floor spaces thus increase the value of building especially in prime development areas.
- The transfer of load with lapped joints is entirely dependent upon the bonding of the surrounding concrete. Degradation of concrete could affect the performance of the joint.
- Usage of couplers in starter bars connection can avoid holes punching to the formwork.
- Material and cost savings as less steel is used.
- Greener and 'lighter' building.

DEFINING STANDARDS

We make no compromise in every single piece of coupler supplied. Moment couplers are all stamped with traceability codes, which allows it to be traced back to the original lot of steel and the origin of the raw material. Our in house dedicated QC team is tasked to verify all our products to ensure they are consistently complying with the product specifications.

MOMENT JOINTEC (JT)

The JoinTec range is our most comprehensive system with solutions for every possible application. Its main advantage over a taper thread system is that it does not require a torque wrench, making installation much simpler.

Made from a Quench and Tempered machined steel, it not only provides sufficient strength to resist an equivalent bar stress of more than 700MPa, but also provides excellent impact toughness to resist blast and earthquake loads.

We have carried out tests to comply with static, seismic and fatigue loads. These tests have been carried out in many different countries and include demonstration of compliances shown in ISO 15835-2009; IS 16172-2014, AC133, EN1992-1 and BS8110 amongst others.

MOMENT STANDARD JT

Parallel thread coupler constructed with high strength machinery steel grade. AFCAB and DMC Certified Standard JT couplers are designed to achieve a minimum breaking load equivalent to bar stress of at least 700 N/mm2 due to its cold forging process prior to the threading of rebar.

CARES ISO 9001 1730 · UKAS MANAGEMENT SYSTEMS 002 · Validate with the CARES Cloud App · CREAM Construction Research Institute of Malaysia · DCL PRODUCT CONFORMITY

MOMENT TERMINATOR JT

The Terminator JT provides anchorage solution which effectively eliminates hooked bar preparation, placement, and congestion problems (providing concrete cone capacity is not critical).

MOMENT WELDABLE JT

The Weldable JT coupler enables connection between steel and concrete in composite structure. Effective and safe solution for connecting reinforcement rebars to structural steel elements.

MOMENT RT

The RT is an alternative threading technology where the thread is rolled as opposed to being cut. It can provide exceptional performance in high cycle elastic fatigue applications, whilst maintaining values in excess of the design strengths of the bar. The RT system, uses the RT coupler and a rolled parallel thread. It is a full-strength system, capable of exceeding the nominal ultimate characteristic strength of the rebar.

MOMENT REDUCER JT

The Reducer JT range uses the same threading principles as the JT Standard. It allows connection between two different bar sizes.

MOMENT MBC

The MBC range of couplers provides a cost-effective method of joining reinforcing bars, particularly when the fixed bar is already in place and there is insufficient space for a hydraulic swaging press. They are easy to install and achieve failure loads higher than 108% of the characteristic yield strength of grade 500 reinforcing bar. Neither bar end preparation to form threads, nor bar rotation are required. MBC couplers can also be used to join imperial or metric, plain, round or deformed reinforcing bars, making it ideal for alteration or refurbishment projects.

MOMENT GROUT COUPLER

The Moment Half Grout Coupler is a mechanical splicing system intended to be used to connect precast elements.

At one end, the coupler receives a threaded rebar, whereas the other end provides the flexibility of a grout system. It consists of a one piece design and the coupler is capable of resisting an equivalent bar stress of more than 700MPa.

Complementing the Moment Half Grout Coupler, the Moment Full Grout Coupler can be used either for precast or in situ connections where additional tolerance is needed or if reinforcing bars cannot be threaded.

MOMENT SPHERICAL HEAD LIFTING SYSTEM

The Moment Spherical Head Lifting System products are engineered and rigorously tested under the strictest quality assurance policy, providing the safest, yet cost competitive solution to the building industry.

Our Spherical Head Lifting System includes:

- Moment Spherical Head Lifting Anchors
- Moment Recess Formers
- Moment Lifting Clutches

MOMENT SPHERICAL HEAD LIFTING ANCHORS

The Moment Spherical Head Lifting Anchor is made of a round steel rod with a forged foot and head. Forged using a special impact resistant steel, the range of Spherical Head Lifting Anchor has been specifically engineered to safely lift precast concrete elements in the most challenging of environments and site conditions.

Advantages:

- Safe, quick, efficient
- Durable clutch is resistant to abrasion
- Huge range of anchors and accessories for all types of precast elements
- 8 load classes from 1.3 to 32.0
- Ideal for beam or wall elements

MOMENT RECESS FORMERS

Moment Recess Formers are used to accurately create the correct recess to accommodate the Lifting Clutches during casting, the Recess Former is moulded from a rubber compound exclusively developed to ensure longevity when in contact with concrete.

The outer curved surface of the rubber compound has a hole at its apex to allow the anchor to extend out of the recess former. It is made of highly durable rubber encasing a high tensile steel bolt, complying with many international standards.

Advantages:

- Hard oil resistant, yet flexible, rubber
- For attachment to steel and timber forms or floats
- Durable rubber case allows easy and clean removal

MOMENT LIFTING CLUTCHES

Moment Lifting Clutch is used for lifting a wide range of precast concrete products for building and civil engineering including panels, pipes, pits, manholes, box culverts, road barriers, bridge beams, planks, sound walls, culverts etc.

We have a wide range of sizes from 1T to 32T which perfectly complements the Moment Spherical Head Lifting Anchor range.

MOMENT LOOP BOX

Ideal solution for connecting precast concrete segments, the Loop Box consist of galvanized steel casing to ensure stability during fixing and concreting.

The Loop Boxes are available in three versions, Single Loop Box, Double Loop Box and Multi Loop Box including single, double & multi wire rope loops respectively. Simply fix to formwork and when ready on site the flexible folded wires can be pulled out and a connection is made.

High strength (1770 MPa) Galvanized Steel Wire Rope with 6 mm Φ crimped by using compression sleeves / Ferrule to form a loop at one end & to transfer a load axially through other end.

Advantages:

- High strength (1770 MPa) galvanized wire rope loop ensuring corrosion resistance is used to transfer the shear forces acting in the joint between junctions of precast segments.
- Pre-punch nail holes for easy fixing to formwork.
- Galvanized steel casing ensuring stability during fixing & concreting.
- The loops pop-up automatically ensuring time saving; no rebending is required.
- Product dimension ideal for logistics & storage.
- Alternative fixing method using reusable magnetic cover available.
- Proposed maximum 3m length, up to 5 loops for Multi Loop Box.

Applications:

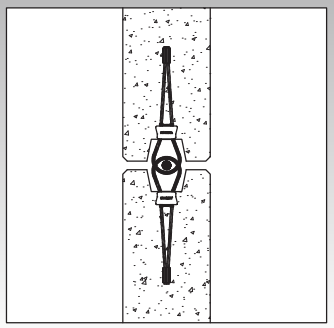


Fig 1: *Butt Joint - End connection between two walls.*

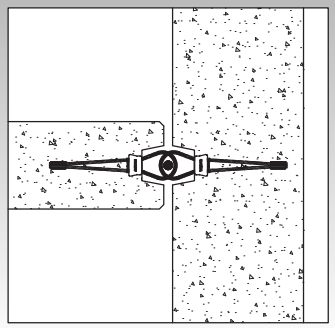


Fig 2: *T-shaped Joint - Crosswall connection.*

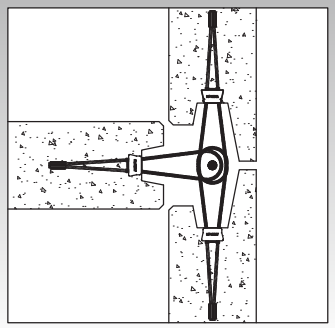


Fig 3: *End Connection with crosswall.*

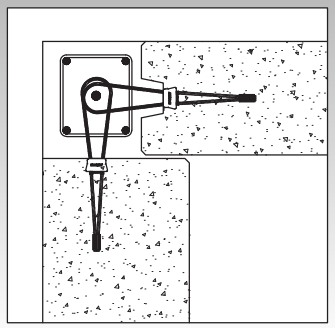
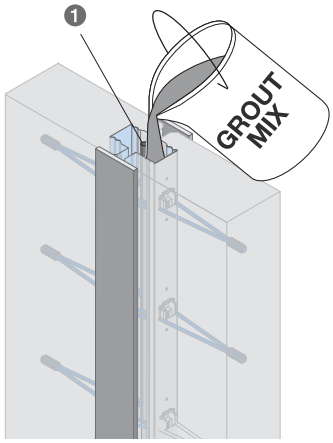


Fig 4: *Angle Connection - Wall to Slab connection.*



Standard Gap Width : 20mm.

The joint filling material must be high strength, free flow, non-shrink, cementations grout.

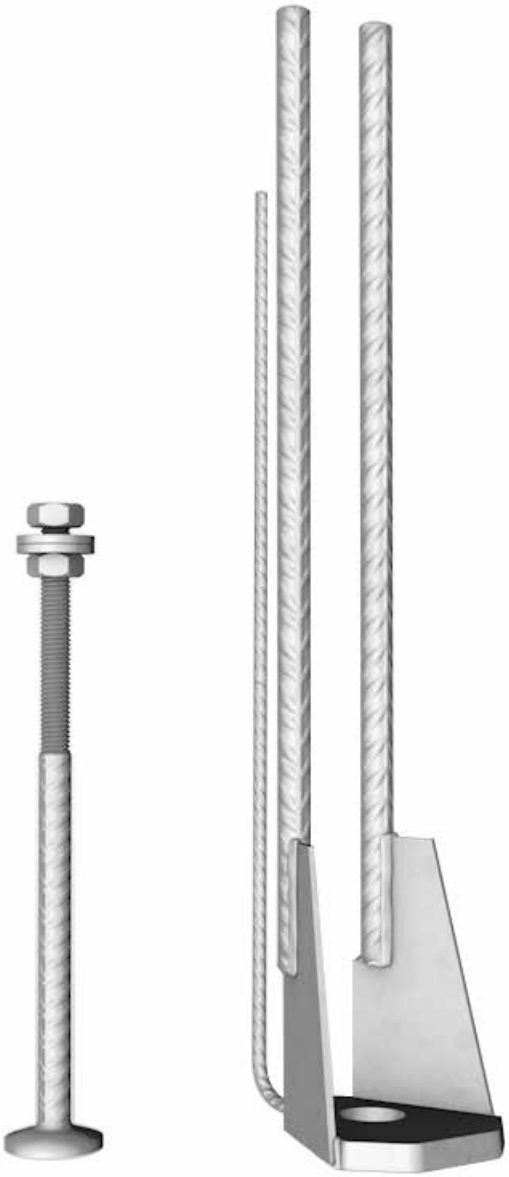
- 1 day compressive strength minimum 40N/mm 2
- 28 days compressive strength 70N/mm2

MOMENT PRECAST SHOE

The Moment Precast Shoe provides a nifty solution for connecting columns and foundations whereby the shoes are precast in the column whilst the bolts are precast in the foundation. The connection is made by joining the shoe and the bolt via load bearing nuts. The freshly installed column will be instantly hold a load as no brace period is required.

Advantages:

- Simple to install and adjustable unlike other solutions
- Use of high quality materials
- No bracing required therefore saving construction time
- Shoes and bolts are pre-casted further saving construction time



INVISIBLE CONNECTIONS

Invisible Connections are the modern and convenient way of connecting precast concrete elements together.

It provides a large tolerance, corbel free connection between 2 precast elements, enabling the assembly to be as efficient as the production of the individual elements.

The grouting phase of the installation not only secures the elements in place, but also provides inbuilt fire resistance to the entire system.

Advantages:

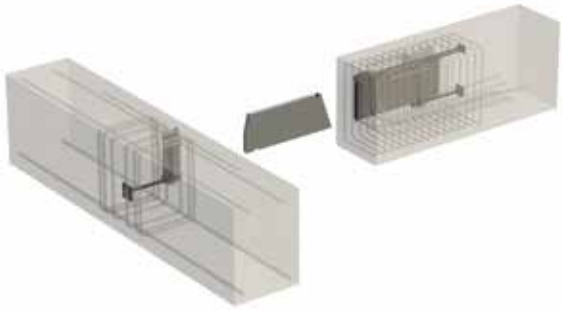
- Freedom of form for the architect in his design
- Connection of precast elements is usually impossible due to the large tolerances required
- Third party tested a peer review verified as part of the European Technical Approval process
- Safe, simple and effective to erect on site, no welding or bolting required
- Less crane time required so minimizing costs and speeding up assembly
- Proprietary system with full test certification

Applications:

For Stairs/Landings

TSS Telescopic Stair Connectors –
Precast Landing to core wall connection

For Beam Column Connection



BSF Telescopic Beam Connectors –
Designed for invisibly supporting beams off columns

For transferring heavy loads from beams into columns, walls or other beams, the ideal solution is the BSF system. These 3-part telescopic connectors have individual capacities ranging from 225 kN to 700 kN. By optionally using BSF connectors in pairs, loads of up to 1400 kN can be catered for.

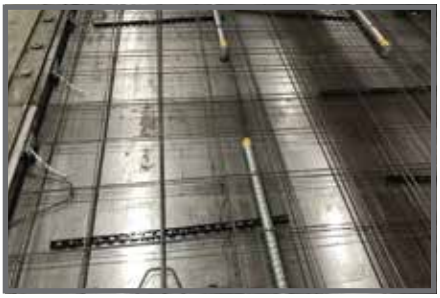
MOMENT FAST SPACER

The Moment Fast Spacer is designed to continuously space the reinforcement a set distance away from the formwork surface during construction in both commercial and civil projects. With its light plastic build the fast spacer is extremely versatile and is able to be used swiftly and easily as no wiring is required.

Advantages:

- Lightweight and easy to use
- Cost effective plastic construction
- Can be installed and ready to use very quickly overall resulting in a 75% reduction of time

Applications:

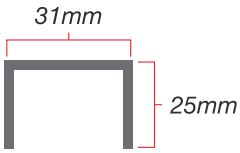


- For horizontal application
- Suitable for large area, example: slab
- Designed for low loads. Maximum 75 kg of “Static Loads” per length (1 meter)
- Maximum spacing for spacer shall be at 1000mm centers. The spacing shall be reduced if the rebar mesh deflected
- Table of rebar mesh for easy reference:

Mesh Weight (kg/m2)				
Bar size	Mesh Spacing (mm)			
	125	150	175	200
6	3.55	2.96	2.54	2.22
7	4.83	4.03	3.45	3.02
8	6.31	5.26	4.51	3.95
9	7.99	6.66	5.71	4.99
10	9.86	8.22	7.05	6.17
12	14.21	11.84	10.15	8.88
16	25.25	21.04	18.04	15.78

Dimension & Availability:

Item	Width	Height	Length	Weight
MFS 25	31mm	25mm	1000mm	90gram



MOMENT BAR BOX

The Moment Bar Box allows connection between two concrete elements by their reinforcements, without drilling in the formwork. It consists of special pre-bent and pre-spaced steel reinforcement supplied in a pre-galvanized steel box that is dimpled and flanged for maximum concrete bond.

The system is used to enable efficient and reliable reinforcement continuity for sections of concrete structures that are poured in subsequent phases without the need to drill formwork.

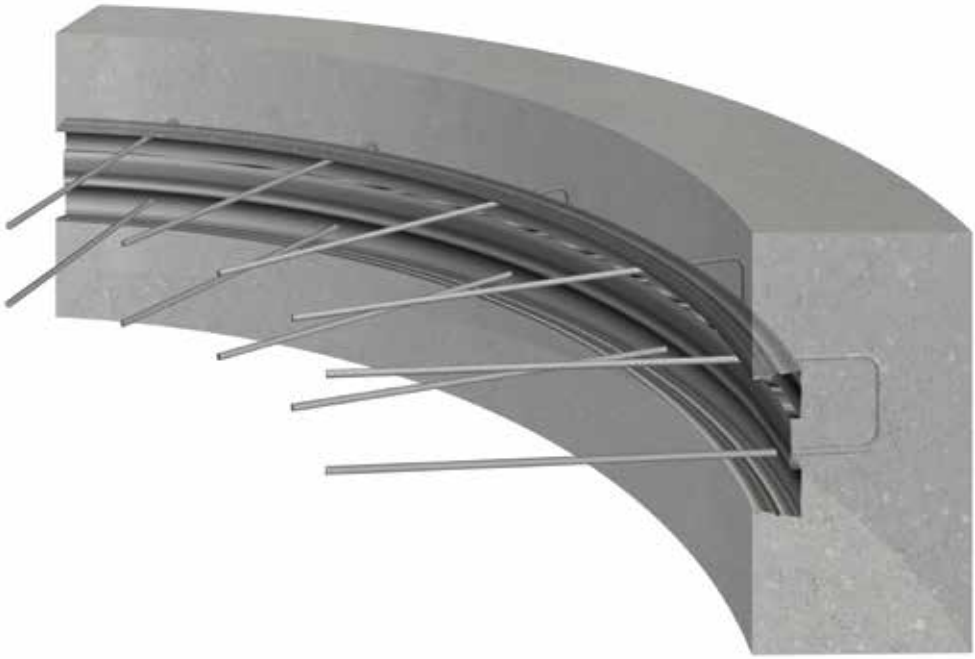
The Moment Bar Box system is potentially suitable for use in any construction joint in concrete.

The most commonly found applications include:

- Floor slabs
- Walls
- Stairwells
- Corbels
- Diaphragm walls
- Jump forms
- Brick support ledges

Advantages:

- Available in 50 mm, 100 mm and 150 mm widths.
- Multiple configuration (number of bars, spacing, etc.)
- Ease of installation.
- Box configuration protects rebar inside from rust.
- Lid and end caps are easily disposable.

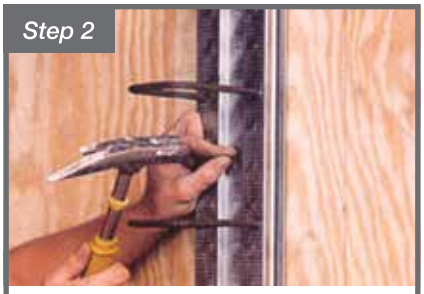


MOMENT BAR BOX

Step 1

Check the dimension of Moment Bar Box correspond with concrete cover

Step 2



Fix the Moment Bar Box to Formwork

Step 3

Cast the concrete in the first phase

Step 4

Remove the lid and polystyrene inserts

Step 5

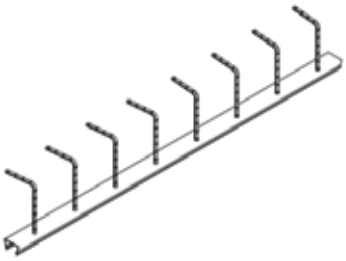
Check stirrups are clean

Step 6

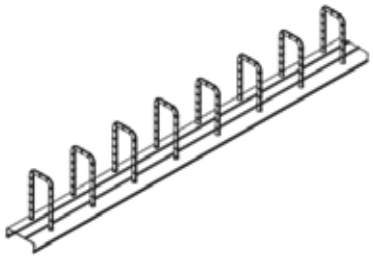
Bend the rebars out

Types of Moment Bar Box Available

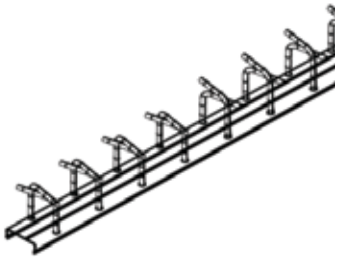
Type S



Type D



Type DS



CONCRETE SPACER

Concrete spacers are little concrete parts which are used to position the rebar on the right place with the right cover. These spacers are important for the optimum adhesion of the poured concrete. We developed coverage spacers in various types, forms, measures and materials. Each spacer has his own unique quality and meets all the set quality standards.

Advantages:

- High compressive strength, no deformation in heat or cold, concrete cover accurately maintained
- Spacers remain in position during formwork erection and concreting
- Ideal for impermeable concrete, no hairline cracks between the spacer and the concrete

Moment Prestressing and Post Tensioning (MPT) System is designed and tested to meet stringent standards. The range of buildings and civil engineering applications includes:

- Commercial and residential high rise
- Retail shopping centers
- Load transfer structures
- Slabs on grade
- Silos and reservoirs
- Bridges
- Ground anchoring and earth retaining

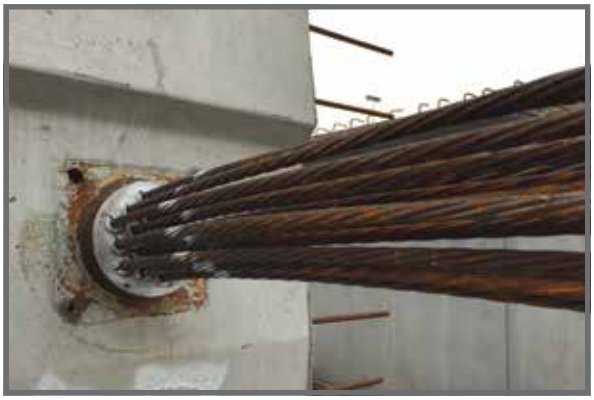
MPT FLAT SLAB SYSTEMS

The MPT flat slab system is normally adopted for bonded tendon. The strands are individually gripped in one triangle flat anchor head unit and transmit their pre-stressing forces by means of flat type anchor plate casting unit. The strands are stressed individually by means of a mono strand jack. The strands are contained in one flat duct (duct size: 20mm x 70mm) which is made of corrugated galvanized metal.

To ensure corrosion protection and to give adequate bond strength, the tendons are filled with a suitable cement grout mix after complete stressing of the strands. Facilitating of concrete placing due to the absence of tendons in the webs, and ease of placing tendons.

MPT MULTISTRAND ROUND SYSTEM

A method of reinforcing and pre-stressing concrete, masonry and other structural elements. Today, it is used for a wide range of applications including office buildings, parking structures, slab-on-ground foundations, ground anchors, storage tanks, stadiums, silos, and bridges.



The systems are normally adopted for bonded tendons. The tendons consist of a bundle of strands with a nominal diameter of 0.5" (12.7 mm.) or 0.6" (15.2 mm.). The number of strands per tendon can be from 4 strands up to 42 strands of diameter 0.5" or 31 strands of diameter 0.6". The strands in the tendons are contained in one round duct which is made of corrugated galvanized metal.

The strands are individually gripped in one anchor head unit and transmit their pre-stressing force by means of an anchor plate casting unit. For each anchor size, special spiral reinforcement is provided at the anchor plate casting to give adequate splitting reinforcement for bustling stresses developed at the anchorage zone.

STRANDS

The strands are formed with seven steel wires: one central wire around which the other six are wrapped. They are generally supplied already stabilized (low relaxation) and certified according to the regulations by an independent laboratory, in coils weighing kg 2500-3000. Usually greased or waxed strands, incased in a HDPE sheath, commonly called unbounded, are used to manufacture the external tendons. Such strands can be hot-dipped galvanized too.

POST TENSIONING JACKS

The jack is placed over the strand and when tensioning starts they are automatically and simultaneously engaged in the pulling head of the jack. Once the required elongation and load are reached the lock-off device of the jack can be activated to house the wedges in the anchor head uniformly. The tensioning can be accomplished in more steps basing the elongation of the cable. A tensioned cable can be released using proper releasing device.

GROUTING

Cables are normally grouted after sealing their anchorages with the concrete or if required, using the proper grouting caps. Before grouting the tendons, they should be flushed to ensure that no obstruction would impede the flow of the injected grout.

The sandless grout, injected using on MPT grouting pumps, is kept under pressure during its curing. The water-to-cement ratio is kept as low as possible. Usually the proportion of ingredients are: 36-38 liters of water, 100kg of cement and addictive according to the instruction of the manufacturer. The mix produces 72-74 liters of grout.


Round Duct


Trumpet HDPE


Anchor Casting


Wedges


Anchor Block

Wide range of post tensioning systems for any application are available

MK4 POST TENSIONING SYSTEM

MK4 has been developed based on complete Quality Assurance Programme conforming to ISO 9001:2000 and according to the requirements of the new European code ETAG-013 for Post Tensioning, including the design, production, supply and installation of all the required PT works, as anchorages, auxiliary equipment; pushing strands, stressing and injection. By this way, this complete quality system covers all Post Tensioning work performed by MK4 system.

As application, we are providing MK4 Post Tensioning system for any structure as bridges, buildings, tanks of liquefied gas LNG, silos, covertures, communication towers, nuclear power stations, suspended structures, etc.

Innovative Solutions

CE

LIVE END ANCHORAGE MSA

The MSA Live End anchorages have been designed to comply with the most demanding of international standards such as PTI, BS, etc.

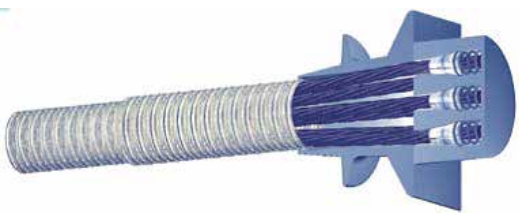
Each basic anchorage consists of a cast trumpet anchor plate and wedges. All the elements of the anchorages and corresponding dimensions have been carefully selected in order to achieve the greatest economy in design.

MULTI COUPLER MCB

An economic range of couplers has been designed for ease of assembly on site. Couplers are used to give continuity to the tendons which due to their length or the construction method used in the project, cannot be installed or tensioned as one unit.

The first-stage of the tendon is stressed and anchored in the normal way and the dead end of the second-stage tendon is then assembled around it. The complete coupler assembly is enclosed within a conical/cylindrical cover (trumpet) which has a grout inlet.

AUTOMATIC DEAD END ANCHORAGE MPA



The unique MK4 Automatic Dead End anchorage MPA is intended to be used at one end of a tendon, the other end being fitted with a live end anchorage MSA.

Its principal characteristic is the automatic retention of the strands by the anchor plate and its primary use is in situations where extrusion grips cannot be fitted satisfactorily due to space limitations.

MK4 POT BEARING

POT bearings are structural bearings which support vertical and horizontal loads and permit limited rotation around any horizontal axis and have therefore, an extremely wide range of applications.

They can be designed and manufactured for practically any load in a temperature range between -20ºC and 50ºC and have actually been tested for vertical loads up to 100.000 kN.

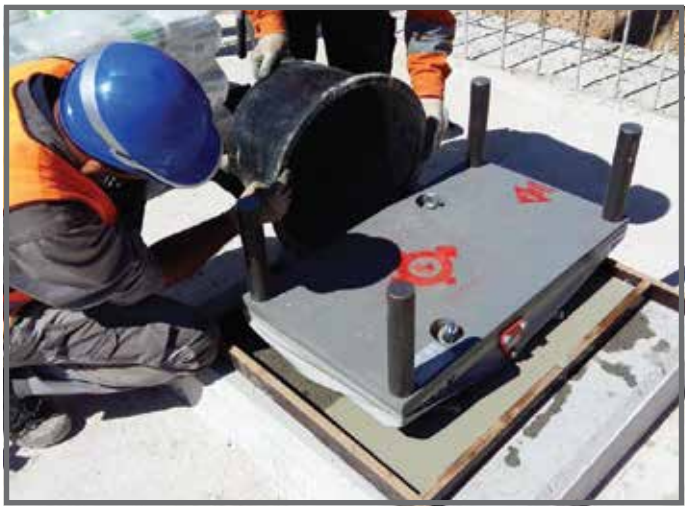
MK4 bearings are widely used in structural, marine and civil engineering applications, and particularly in bridges. Bearings are available in carbon steel as standard and in stainless steel for applications where corrosion is a potential problem.

CE MK4 bearings are designed to meet the requirements of the European Standard EN 1337-5 and have the qualification of the CE mark. Nevertheless, MK4 can also supply pot bearings complying with other standards, upon request.

MK4 POT bearings are available in three main types:

- Type PF (Fixed)
- Type PG or PT (longitudinally Guided sliding or Transversally guided sliding)
- Type PM (Multidirectional or free sliding)

All three types allow rotation. Fixed bearings provide restraint in all horizontal directions. Guided bearings allow movement in one horizontal direction and provide restraint in the other direction. Free sliding bearings allow movement in all horizontal directions, enables the product to support high pressures.



Special Bearings

As well as traditional bearings capable of accommodating loads, movements and rotations for standard structures, MK4 is also well placed to provide customized solutions to suit specific requirements such as:

- Special bearings for Incremental Launching
- High rotation capacity
- Temporary restrictions of movement
- Temporary direction of movement
- High horizontal forces
- Anti seismic bearings
- Uplift bearings
- Shear Pins
- Special anchoring system

HALFEN CAST-IN CHANNEL

The Right Channel for Every Application

HALFEN Cast-In Channels are the ideal basis for easy-to-install, adjustable fixings, saving considerable installation time, resulting in faster construction and therefore cost saving. A polystyrene bead filler or a strip filler provides protection against ingress of concrete into the channel.

Any of the following components can be fixed to HALFEN Cast-In Channel:

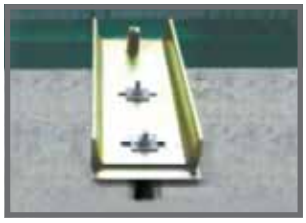
- Concrete façades
- Pre-cast concrete elements
- Pipe support system
- Brickwork support

Hot-rolled HALFEN Cast-In Channels are also ideal for all applications in which dynamic loads occur, e.g. in crane rails or machine. Special hot-rolled profiles are available for this purpose.

Advantages:

- Extreme short installation time
- Installations are freely adjustable along the channel slot
- Components (channels, bolts) protected against corrosion by high-quality galvanized finish or stainless steel
- Serrated hot-rolled channels with high resistance to dynamic, impact and seismic loads
- Certified for use in fire-critical structural elements
- Can be used for temporary installations, e.g. guard railing
- Easy visual installation check (QC) on site

Applications:



Curtain wall bracket fixing

Vertically installed channels for pipe rack support

Finished precast segments with cast-in channels

Elevator shaft - guide rail fixings

Guard rail fixing during the construction period

Noise barrier fixing

Tunnel Construction

Stadium seat fixings

Channel installation into tunnel segment formwork

HALFEN FRAMING CHANNEL

Versatile and Reliable

With a choice of cold rolled, heavy hot rolled, and heavy toothed profiles, HALFEN Framing and Mounting Channels expand the designer's application options from the traditional light duty framing support of building services, to highly engineered industrial, vehicular, and structural applications where high dynamic or impact loads can also be safely accommodated.

Advantages:

- Adjustable assembly; all connections can be adjusted at any time; they are easily replaced or extended
- Corrosion protection remains intact after bolting
- Toothed channels for non-slip connections
- Large selection of standard channelswith very good load bearing capacities
- Almost unlimited in its range of application;
  E.g.: Building construction, industrial construction, steel construction, engineering construction, vehicle manufacturing and many other sectors

Applications:

Pipe fixings

Pipe fixings

Pipe fixings

Train panel fixings

Guide rails fixings

Cable routing

Welding jig-locomotive construction

Conveyor system fixings

Roller bearing fixings

Worldwide contacts for Leviat:

Australia
Leviat
98 Kurrajong Avenue,
Mount Druitt Sydney, NSW 2770
Tel: +61 - 2 8808 3100
Email: info.au@leviat.com

Austria
Leviat
Leonard-Bernstein-Str. 10
Saturn Tower, 1220 Wien
Tel: +43 - 1 - 259 6770
Email: info.at@leviat.com

Belgium
Leviat
Industrielaan 2
1740 Ternat
Tel: +32 - 2 - 582 29 45
Email: info.be@leviat.com

China
Leviat
Room 601 Tower D, Vantone Centre
No. A6 Chao Yang Men Wai Street
Chaoyang District
Beijing · P.R. China 100020
Tel: +86 - 10 5907 3200
Email: info.cn@leviat.com

Czech Republic
Leviat
Business Center Šafránkova
Šafránkova 1238/1
155 00 Praha 5
Tel: +420 - 311 - 690 060
Email: info.cz@leviat.com

Finland
Leviat
Vädursgatan 5
412 50 Göteborg / Sweden
Tel: +358 (0)10 6338781
Email: info.fi@leviat.com

France
Leviat
6, Rue de Cabanis
FR 31240 L'Union
Toulouse
Tel: +33 - 5 - 34 25 54 82
Email: info.fr@leviat.com

Germany
Leviat
Liebigstrasse 14
40764 Langenfeld
Tel: +49 - 2173 - 970 - 0
Email: info.de@leviat.com

India
Leviat
Unit S4, 902, A Wing
Lodha iThink Campus Building
Panchpakhadi, Pokharan Road 2
Thane 400606
Tel: +91 - 22 6953 3700
Email: info.in@leviat.com

Italy
Leviat
Via F.lli Bronzetti 28
24124 Bergamo
Tel: +39 - 035 - 0760711
Email: info.it@leviat.com

Malaysia
Leviat
28 Jalan Anggerik Mokara 31/59
Kota Kemuning, 40460 Shah Alam
Selangor
Tel: +603 - 5122 4182
Email: info.my@leviat.com

Netherlands
Leviat
Oostermaat 3
7623 CS Borne
Tel: +31 - 74 - 267 14 49
Email: info.nl@leviat.com

New Zealand
Leviat
2/19 Nuttall Drive, Hillsborough,
Christchurch 8022
Tel: +64 - 3 376 5205
Email: info.nz@leviat.com

Norway
Leviat
Vestre Svanholmen 5
4313 Sandnes
Tel: +47 - 51 82 34 00
Email: info.no@leviat.com

Philippines
Leviat
27F Office A, Podium West Tower,
12 ADB Avenue, Ortigas Center,
Mandaluyong City,
1550 Philippines
Tel: +632 - 7957 6381
Email: info.ph@leviat.com

Poland
Leviat
Ul. Obornicka 287
60-691 Poznań
Tel: +48 - 61 - 622 14 14
Email: info.pl@leviat.com

Singapore
Leviat
10 Benoi Sector
Singapore 629845
Tel: +65 - 6266 6802
Email: info.sg@leviat.com

Spain
Leviat
Polígono Industrial Sa nta Ana
c/ Ignacio Zuloaga, 20
28522 Rivas-Vaciamadrid
Tel: +34 - 91 632 18 40
Email: info.es@leviat.com

Sweden
Leviat
Vädursgatan 5
412 50 Göteborg
Tel: +46 - 31 - 98 58 00
Email: info.se@leviat.com

Switzerland
Leviat
Grenzstrasse 24
3250 Lyss
Tel: +41 - 31 750 3030
Email: info.ch@leviat.com

United Arab Emirates
Leviat
RA08 TB02, PO Box 17225
JAFZA, Jebel Ali, Dubai
Tel: +971 (0)4 883 4346
Email: info.ae@leviat.com

United Kingdom
Leviat
President Way, President Park,
Sheffield, S4 7UR
Tel: +44 - 114 275 5224
Email: info.uk@leviat.com

United States of America
Leviat
6467 S Falkenburg Rd.
Riverview, FL 33578
Tel: (800) 423-9140
Email: info.us@leviat.us

For countries not listed
Email: info@leviat.com

Leviat.com

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