Leviat®
A CRH COMPANY

August 2022

Loop Box

for joining concrete elements

MOMENT

We are one team.
We are Leviat.

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

Under the Leviat brand, we have united 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 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

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Moment Loop Box

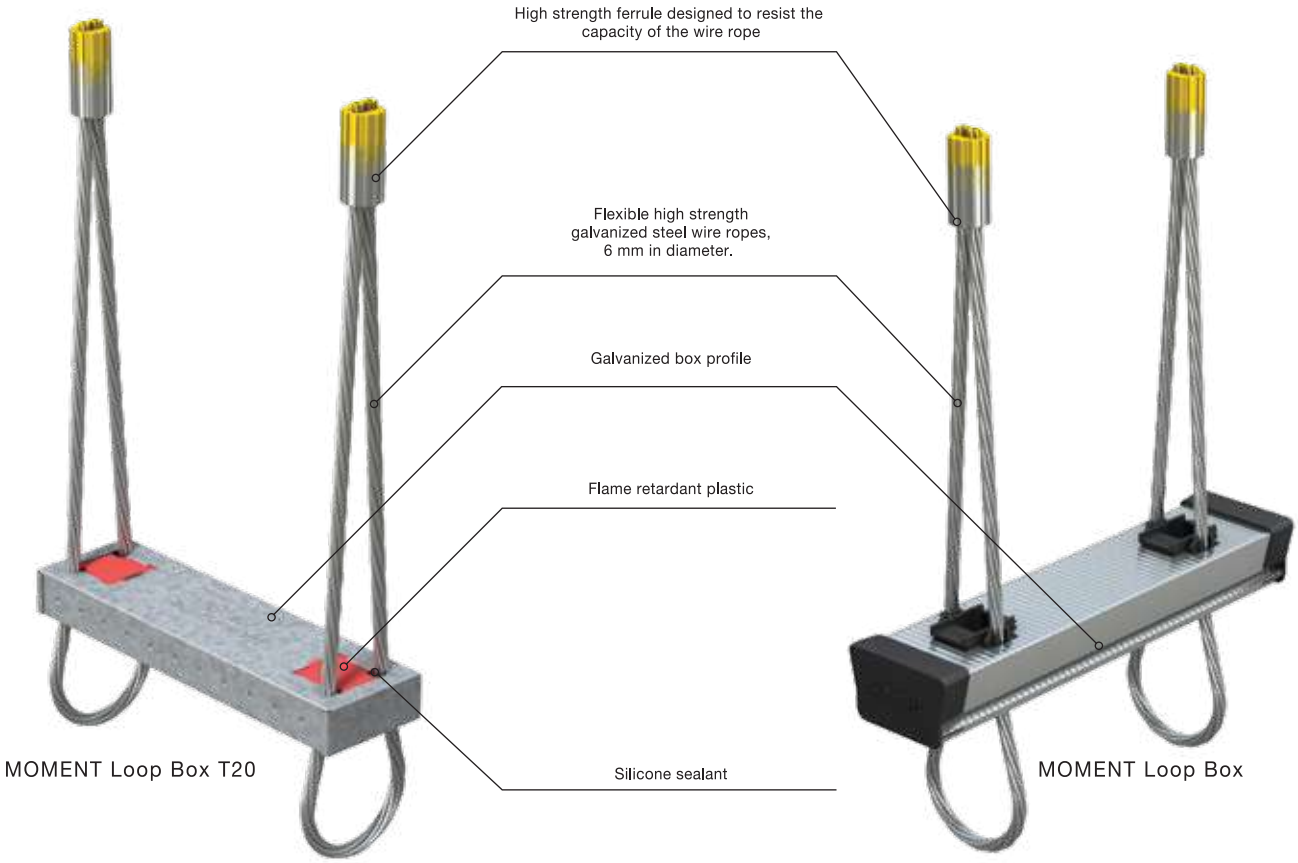
Connecting precast wall panels effectively

MOMENT Loop Box consist of flexible wire ropes encased in a steel box. The boxes are first cast in a precast factory, and later transported to site. Here, the back cover is removed and the flexible wire ropes unfolded. The wall panels can then be aligned together, and the connection grouted.

Together with comprehensive product options and flexibility in installation methods, the MOMENT Loop Box range of products cater for all types of design application and customer needs.

Features and Benefits

- Manufactured using high quality construction grade materials.
- Solid steel casting for stability during handling and installation.
- Flexible wire ropes ensures ease of wall panel alignment on site.
- Galvanised wire rope and profile to protect against corrosion.
- Various installation methods possible in precast factory.
- Various configuration of box profile and wire rope to cater for every design need.



Moment Loop Box Product Range

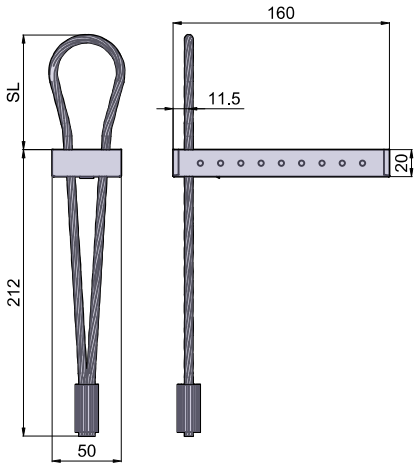
MOMENT Single Loop Box

- Basic MOMENT Loop Box, comes with shortest box profile with 1 wire rope installed.
- Optional 20mm (T20) or 30mm thick box profile.
- Wire rope length range from 60 – 120.

MOMENT Single Loop Box T20

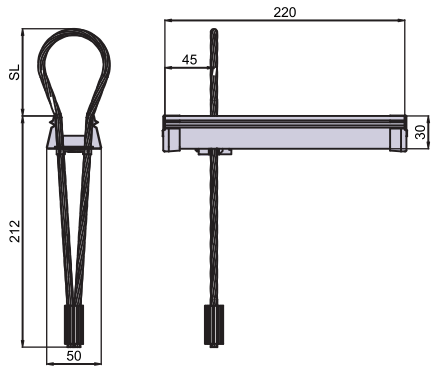
MOMENT Single Loop Box

MOMENT Single Loop Box T20



Product Code	SL (mm)
MLB-S-6-60-T20	60
MLB-S-6-80-T20	80
MLB-S-6-100-T20	100
MLB-S-6-120-T20	120

MOMENT Single Loop Box



Product Code	SL (mm)
MLB-S-6-60	60
MLB-S-6-80	80
MLB-S-6-100	100
MLB-S-6-120	120

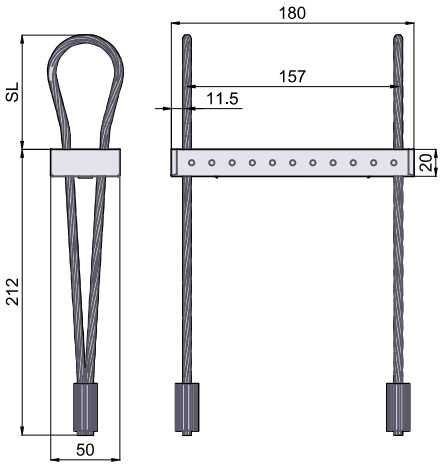
MOMENT Double Loop Box

- Comes with 2 wire ropes, for increased tensile and traverse loading capacity.
- Optional 20mm (T20) or 30mm thick box profile.
- Wire rope length range from 60 – 120.

MOMENT Double Loop Box T20

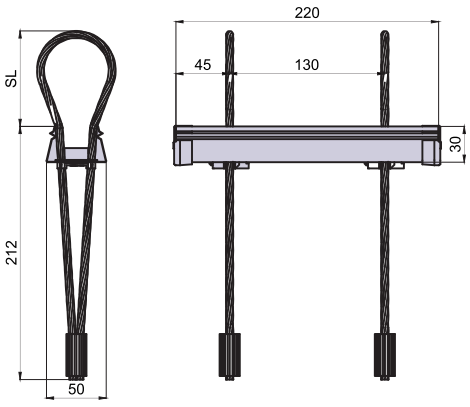
MOMENT Double Loop Box

MOMENT Double Loop Box T20



Product Code	SL (mm)
MLB-D-6-60-T20	60
MLB-D-6-80-T20	80
MLB-D-6-100-T20	100
MLB-D-6-120-T20	120

MOMENT Double Loop Box

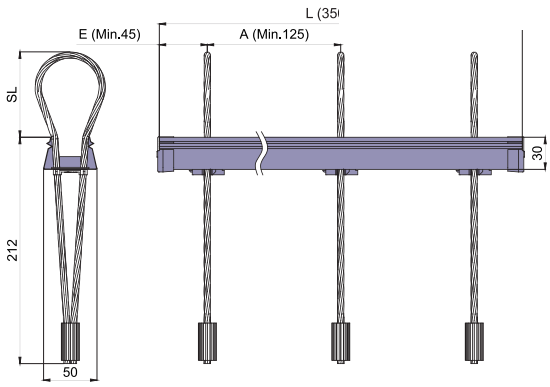


Product Code	SL (mm)
MLB-D-6-60	60
MLB-D-6-80	80
MLB-D-6-100	100
MLB-D-6-120	120

MOMENT Multi Loop Box

- Multiple wire ropes installed in 1 profile, for tailored capacity and faster installation.
- 30mm box profile.
- Highly customizable length and number of wire ropes.
- Wire rope length range from 60 – 140.

MOMENT Multi Loop Box



When ordering, the following Product Code should be provided:

MLB-M-6-SL-L-P-E-N

Where

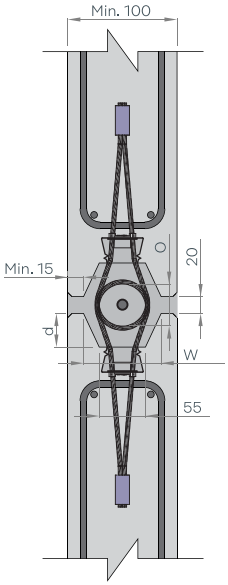
M = Multi Loop Box
SL = Loop Length (60, 80, 100, 120 or 140)
L = Profile Length. (350-3000mm)
P = Pitch Distance. Minimum is 125mm.
E = Edge distance to first rope. Minimum is 45 mm.
N = Number of wire ropes. Minimum 3, Maximum 24

Example specifications

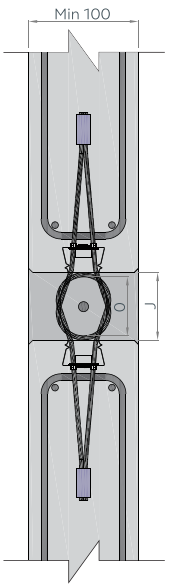
MLB-M Model	SL (mm)	L (mm)	P (mm)	E (mm)	N
MLB-M-6-80-350-125-50-3	80	350	125	50	3
MLB-M-6-80-600-125-50-5	80	600	125	50	5
MLB-M-6-80-1000-125-62.5-7	80	1000	125	62.5	7

Application

Joint Types



Indented Joint



Flat Joint

Indented Joint				
Wall Thickness	SL	d	O	W
≥100	60	30	42	70
≥120	80	40	52	90
≥140	100	50	72	110
≥150	120	60	92	120

Flat Joint			
Wall Thickness	SL	J	O
≥100	60	65	42
	80	85	52

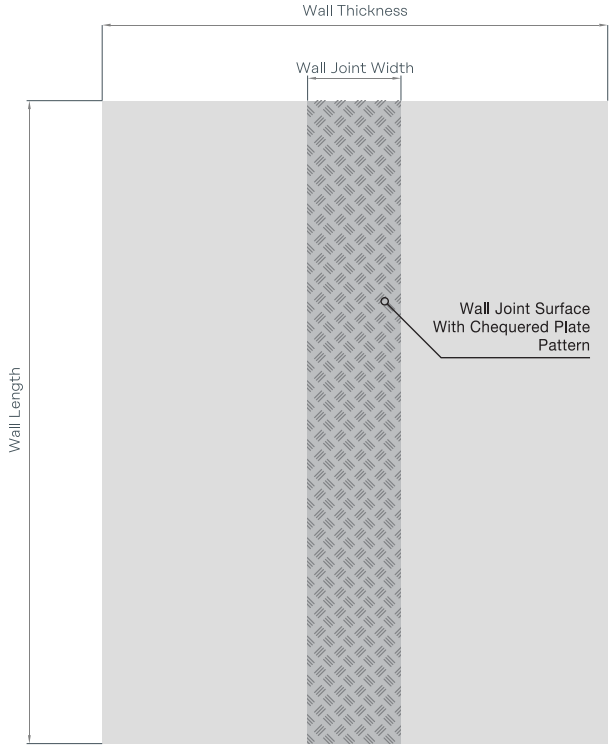
*These arrangements are for general recommendation; please contact us for customize arrangement.


Series Wall Connection

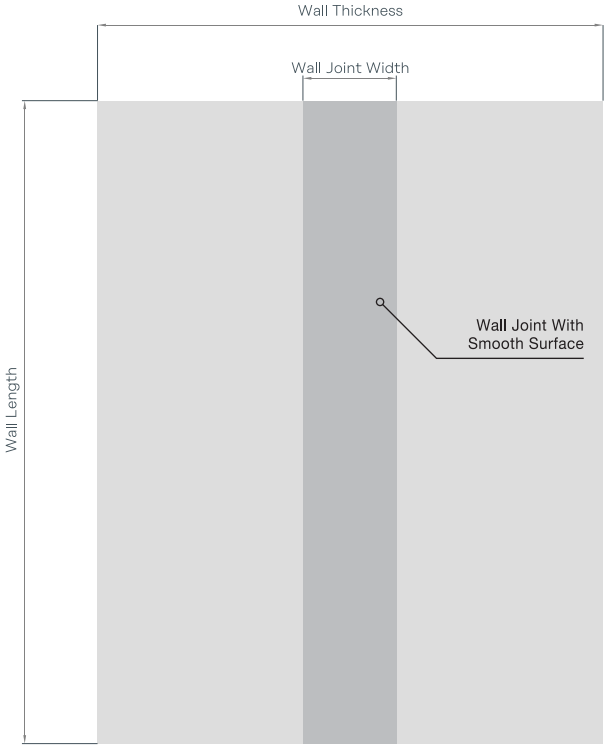

Junction Wall Connection


Conner Wall Connection

Joint Surface Type



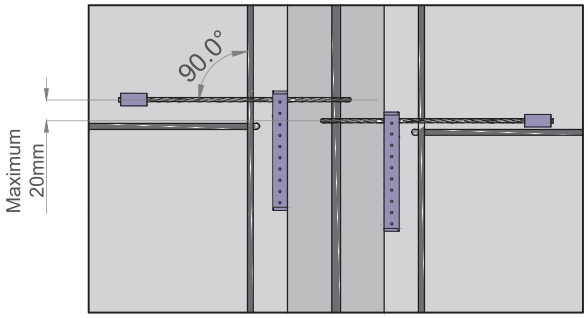
Wall Front View
Chequered Plate Surface Option



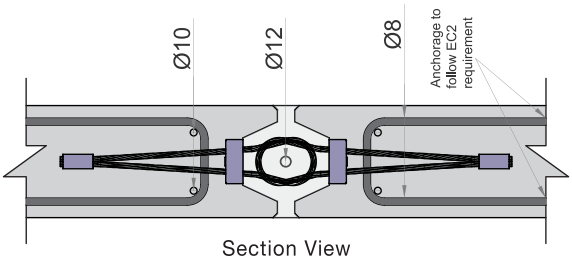
Wall Front View
Smooth Surface Option

Installation Tolerances

MOMENT Single Loop Box



Elevation View

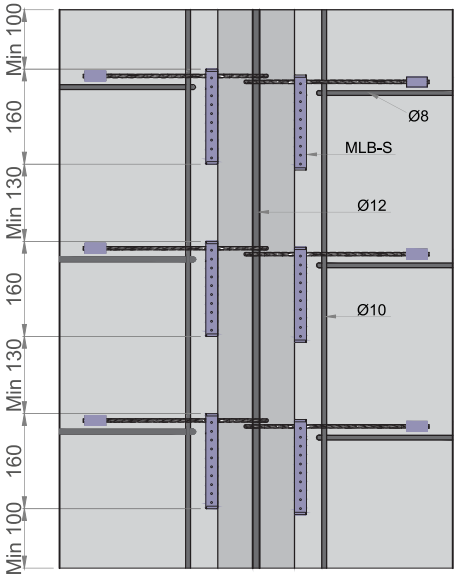


Section View

1. The existing reinforcement in wall with proper detailing can be consider for this requirement.

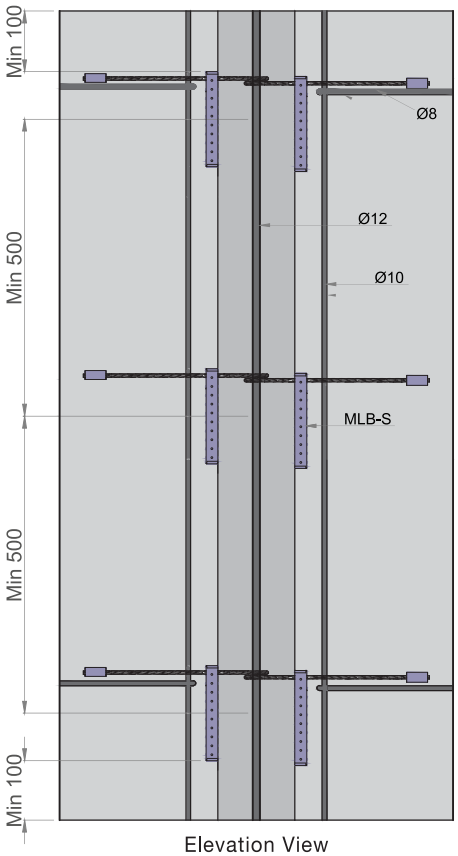
2. In the case of wall thickness in larger than 120 mm and box spacing is more than 500 mm, no additional reinforcement is required except at the outer edge wire loop

Reinforcement and Box Spacing



Elevation View

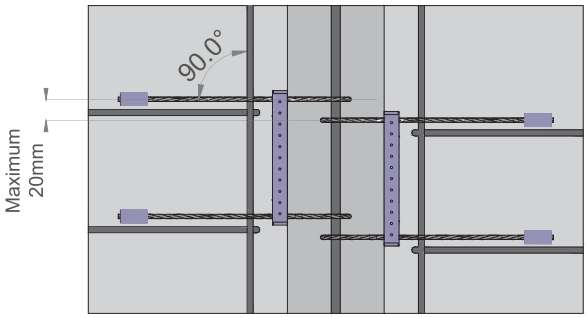
Min. 100mm wall thickness
Box spacing <500mm



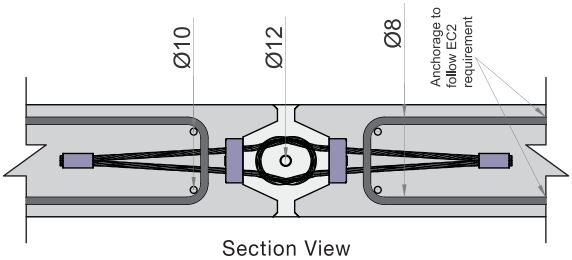
Elevation View

Min. 120mm wall thickness
Box spacing ≥500mm

MOMENT Double Loop Box



Elevation View



Section View

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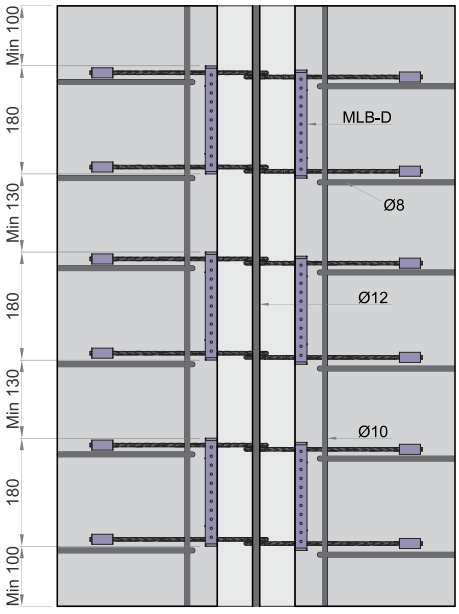
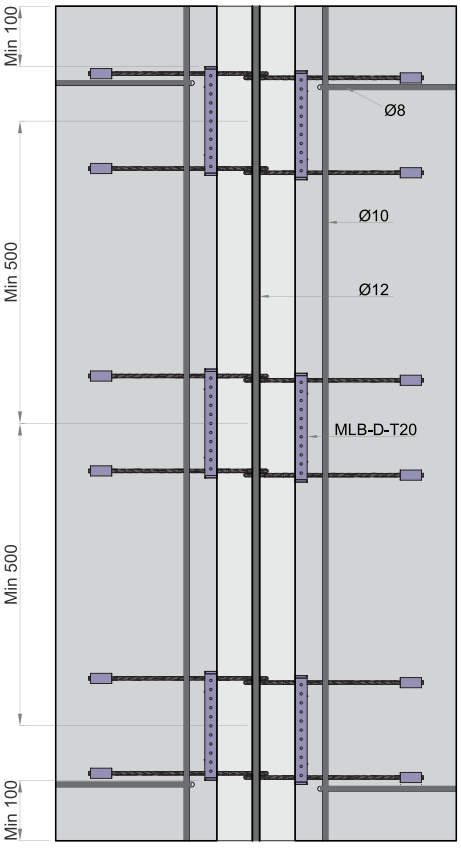
Reinforcement and Box Spacing



Elevation View

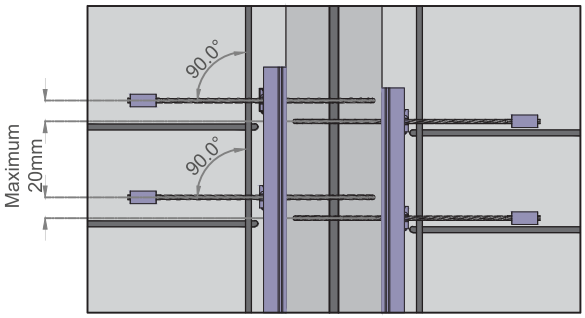
Min. 100mm wall thickness
Box spacing <500mm



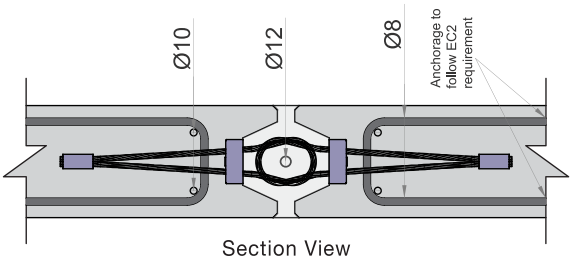
Elevation View

Min. 120mm wall thickness
Box spacing ≥500mm

MOMENT Multi Loop Box



Elevation View



Section View

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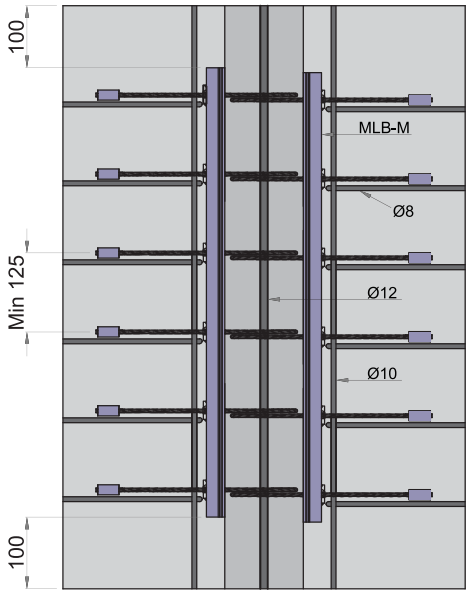
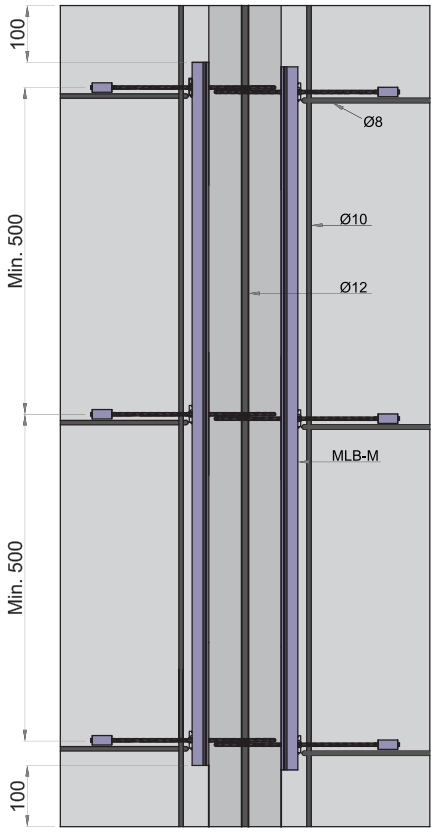
Reinforcement and Box Spacing



Elevation View

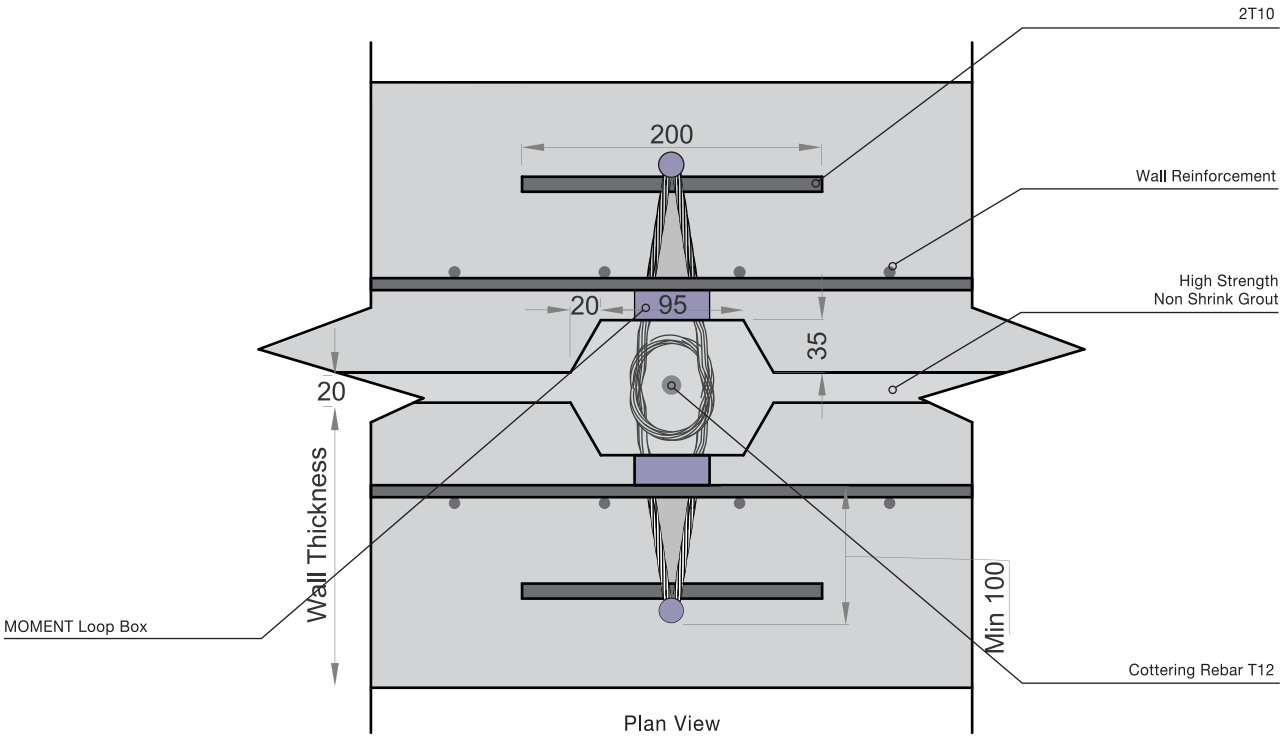
Min. 100mm wall thickness
Loop spacing <500mm

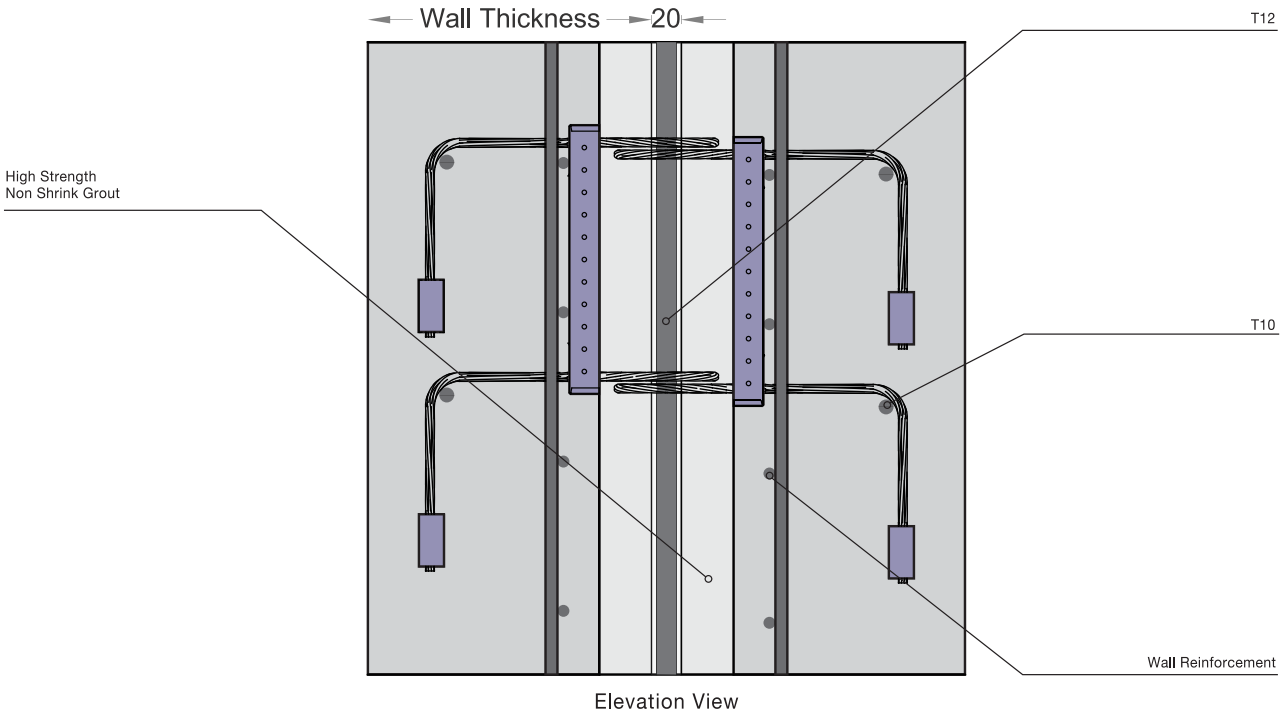


Elevation View

Min. 120mm wall thickness
Loop spacing ≥500mm

Typical PPVC with Bend Wire Rope Details





Design Calculations and Capacities

Combination Check For Design Resistance And Loading

$$\frac{N_{Ed}}{N_{Rd}} + \frac{V_{Ed,\parallel}}{V_{Rd,\parallel}} + \frac{V_{Ed,\perp}}{V_{Ed,\perp}} \leq 1.0$$

N_{Ed} = Design Tension Load

N_{Rd} = Design Tensile Resistance

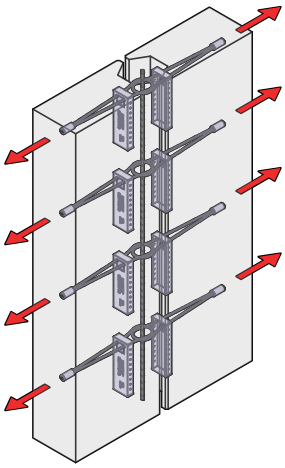
$V_{Ed,\parallel}$ = Design Transverse Load Parallel to the Joint

$V_{Rd,\parallel}$ = Design Transverse Resistance Parallel to the Joint

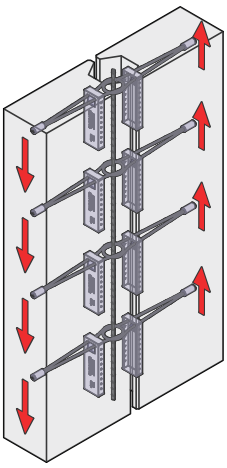
$V_{Ed,\perp}$ = Design Transverse Load Perpendicular to the Joint

$V_{Ed,\perp}$ = Design Transverse Resistance Perpendicular to the Joint

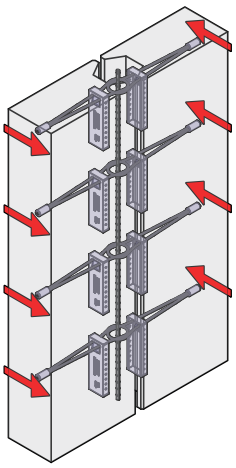
MOMENT Single Loop Box



Tension Load



Transverse Load Parallel to Joint



Tranverse Load Perpendicular to Joint

Design Values Of The Tension Capacity (N_{Rd}) And Transverse Load Capacity Parallel To The Joint ($V_{Rd,\parallel}$)

Flat and Indented Joint							
	Surface	***C25/30***	***C30/37***	***C35/45***	***C40/50***	***C45/55***	***C50/60***
N_{Rd}	All	10.0	10.0	10.0	10.0	10.0	10.0
$V_{Rd,\parallel}$	Smooth	13.2	14.7	16.3	17.8	19.3	20.8
	Chequered Plate	19.2	21.4	23.7	25.9	28.1	30.3

Design Values Of The Transverse Load Capacity Perpendicular To The Joint ($V_{Rd,\perp}$)

Indented Joint, Smooth and Chequered Plate Pattern Surfaces [kN/m]							
Wall Thickness (mm)	***SL (mm)***	***C25/30***	***C30/37***	***C35/45***	***C40/50***	***C45/55***	***C50/60***
120	80	5.5	6.4	7.1	7.7	8.4	9.0
130		6.6	7.7	8.5	9.1	10.1	10.8
140	100	7.82	9.1	10.1	11.1	11.9	12.8
150	120	9.0	10.5	11.7	12.7	13.8	14.8
160		10.3	12.0	13.3	14.6	15.8	16.9
170		11.7	13.6	15.1	16.5	17.8	31.1
180		13.0	15.2	16.8	18.4	19.9	21.4
190		14.5	16.9	18.7	20.4	22.1	23.7
200		16.0	18.6	20.6	22.5	24.3	26.1
210		17.5	20.3	22.5	24.6	26.6	28.6
220		19.0	22.1	24.5	26.8	29.0	31.1
230		20.6	24.0	26.6	29.1	31.4	33.7
240		22.3	25.9	28.7	31.4	33.9	36.4
250		23.9	27.8	30.8	33.7	36.5	37.5
260		25.6	29.8	33.0	36.1	37.5	37.5

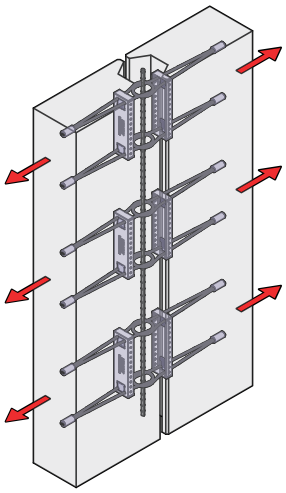
Design Values Of The Transverse Load Capacity Perpendicular To The Joint ($V_{Rd,\perp}$)

Flat Joint, Smooth Surface [kN/boxes]						
Wall Thickness (mm)	***C25/30***	***C30/37***	***C35/45***	***C40/50***	***C45/55***	***C50/60***
120	2.5	2.9	3.2	3.5	3.8	4.1
130	2.8	3.1	3.5	3.8	4.1	4.4
140	3.0	3.4	3.7	4.1	4.4	4.7
150	3.2	3.6	4.0	4.4	4.7	5.1
160	3.4	3.8	4.3	4.7	5.1	5.4
170	3.6	4.1	4.5	5.0	5.4	5.8
180	3.8	4.3	4.8	5.3	5.7	6.1
190	4.0	4.6	5.1	5.6	6.0	6.5
200	4.3	4.8	5.3	5.8	6.3	6.7
210	6.3	6.7	6.7	6.7	6.7	6.7
220	6.6	6.7	6.7	6.7	6.7	6.7
230	6.7					
240						
250						
260						

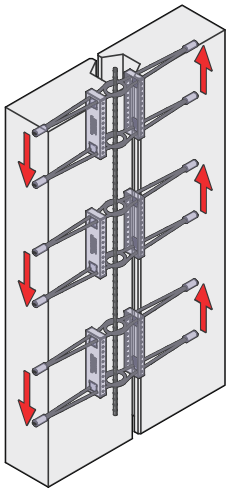
Design Values Of The Transverse Load Capacity Perpendicular To The Joint ($V_{Rd,\perp}$)

Flat Joint, Chequered Plate Pattern Surface [kN/m]						
Wall Thickness (mm)	***C25/30***	***C30/37***	***C35/45***	***C40/50***	***C45/55***	***C50/60***
120	5.1	5.8	6.4	6.7	6.7	6.7
130	5.6	6.4	6.7	6.7	6.7	6.7
140	6.0	6.7	6.7	6.7	6.7	6.7
150	6.4	6.7	6.7	6.7	6.7	6.7
160	6.7					
170						
180						
190						
200						
210						
220						
230						
240						
250						
260						

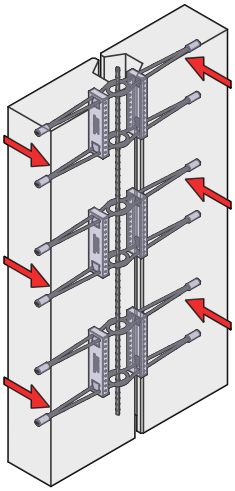
MOMENT Double Loop Box



Tension Load



Transverse Load Parallel to Joint



Tranverse Load Perpendicular to Joint

Design Values Of The Tension Capacity (N_{Rd}) And Transverse Load Capacity Parallel To The Joint ($V_{Rd,II}$)

Flat and Indented Joint							
	Surface	*C25/30*	*C30/37*	*C35/45*	*C40/50*	*C45/55*	*C50/60*
N_{Rd}	All	20.0	20.0	20.0	20.0	20.0	20.0
$V_{Rd,II}$	Smooth	22.7	25.3	27.9	30.5	33.1	35.7
	Chequered Plate	30.5	34.0	37.6	41.2	44.6	48.1

Design Values Of The Transverse Load Capacity Perpendicular To The Joint ($V_{Rd,\perp}$)

Indented Joint, Smooth and Chequered Plate Pattern Surface [kN/m]							
Wall Thickness (mm)	*SL (mm)*	*C25/30*	*C30/37*	*C35/45*	*C40/50*	*C45/55*	*C50/60*
120	80	5.5	6.4	7.1	7.7	8.4	9.0
130		6.6	7.7	8.5	9.1	10.1	10.8
140	100	7.82	9.1	10.1	11.1	11.9	12.8
150	120	9.0	10.5	11.7	12.7	13.8	14.8
160		10.3	12.0	13.3	14.6	15.8	16.9
170		11.7	13.6	15.1	16.5	17.8	31.1
180		13.0	15.2	16.8	18.4	19.9	21.4
190		14.5	16.9	18.7	20.4	22.1	23.7
200		16.0	18.6	20.6	22.5	24.3	26.1
210		17.5	20.3	22.5	24.6	26.6	28.6
220		19.0	22.1	24.5	26.8	29.0	31.1
230		20.6	24.0	26.6	29.1	31.4	33.7
240		22.3	25.9	28.7	31.4	33.9	36.4
250		23.9	27.8	30.8	33.7	36.5	37.5
260		25.6	29.8	33.0	36.1	37.5	37.5

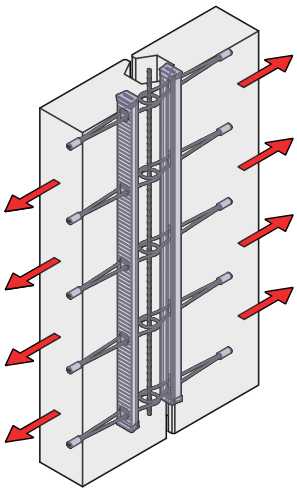
Design Values Of The Transverse Load Capacity Perpendicular To The Joint ($V_{Rd,\perp}$)

Flat Joint, Smooth Surface [kN/boxes]						
Wall Thickness (mm)	*C25/30*	*C30/37*	*C35/45*	*C40/50*	*C45/55*	*C50/60*
120	2.5	2.9	3.2	3.5	3.8	4.1
130	2.8	3.1	3.5	3.8	4.1	4.4
140	3.0	3.4	3.7	4.1	4.4	4.7
150	3.2	3.6	4.0	4.4	4.7	5.1
160	3.4	3.8	4.3	4.7	5.1	5.4
170	3.6	4.1	4.5	5.0	5.4	5.8
180	3.8	4.3	4.8	5.3	5.7	6.1
190	4.0	4.6	5.1	5.6	6.0	6.5
200	4.3	4.8	5.3	5.8	6.3	6.7
210	6.3	6.7	6.7	6.7	6.7	6.7
220	6.6	6.7	6.7	6.7	6.7	6.7
230	6.7					
240						
250						
260						

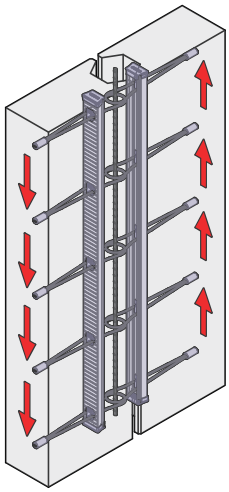
Design Values Of The Transverse Load Capacity Perpendicular To The Joint ($V_{Rd,\perp}$)

Flat Joint, Chequered Plate Pattern Surface [kN/boxes]						
Wall Thickness (mm)	*C25/30*	*C30/37*	*C35/45*	*C40/50*	*C45/55*	*C50/60*
120	5.1	5.8	6.4	6.7	6.7	6.7
130	5.6	6.4	6.7	6.7	6.7	6.7
140	6.0	6.7	6.7	6.7	6.7	6.7
150	6.4	6.7	6.7	6.7	6.7	6.7
160	6.7					
170						
180						
190						
200						
210						
220						
230						
240						
250						
260						

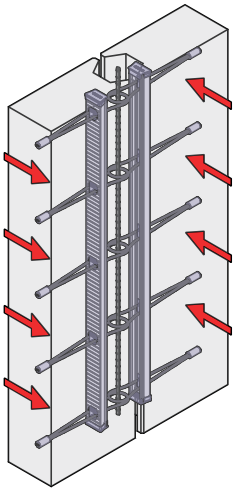
MOMENT Multi Loop Box



Tension Load



Transverse Load Parallel to Joint



Tranverse Load Perpendicular to Joint

Design Values Of The Tension Capacity (N_{Rd})

Flat and Indented Joints, Smooth and Chequered Plate Pattern Surface [kN/Loop]							
Wall Thickness (mm)	***C25/30***	***C30/37***	***C35/45***	***C40/50***	***C45/55***	***C50/60***	**Wire Loop Spacing (mm)**
All	**10kN**						**All**

Design Values Of The Transverse Load Capacity Parallel To The Joint ($V_{Rd,II}$)

Flat and Indented Joints, Chequered Plate Pattern Surface [kN/boxes]							
Wall Thickness (mm)	***C25/30***	***C30/37***	***C35/45***	***C40/50***	***C45/55***	***C50/60***	**Wire Loop Spacing (mm)**
All	118.0	131.4	136.9	158.9	172.1	185.7	**125**
	102.8	114.6	126.5	138.6	150.1	161.9	**150**
	92.0	102.6	113.2	124.1	134.3	144.9	**175**
	83.8	93.6	103.3	113.2	122.5	132.2	**200**
	77.5	86.6	95.6	104.7	113.4	122.2	**225**
	72.5	81.0	89.4	97.9	106.0	114.3	**250**
	68.3	76.4	84.3	92.4	100.0	107.8	**275**
	64.9	72.5	80.1	87.8	95.0	102.4	**300**

Design Values Of The Transverse Load Capacity Perpendicular To The Joint ($V_{Rd,\perp}$)

Indented Joint, Smooth and Chequered Plate Pattern Surface [kN/m]							
Wall Thickness (mm)	SL (mm)	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
120	80	5.5	6.4	7.1	7.7	8.4	9.0
130		6.6	7.7	8.5	9.1	10.1	10.8
140	100	7.8	9.1	10.1	11.1	11.9	12.8
150	120	9.0	10.5	11.7	12.7	13.8	14.8
160		10.3	12.0	13.3	14.6	15.8	16.9
170		11.7	13.6	15.1	16.5	17.8	31.1
180		13.0	15.2	16.8	18.4	19.9	21.4
190		14.5	16.9	18.7	20.4	22.1	23.7
200		16.0	18.6	20.6	22.5	24.3	26.1
210		17.5	20.3	22.5	24.6	26.6	28.6
220		19.0	22.1	24.5	26.8	29.0	31.1
230		20.6	24.0	26.6	29.1	31.4	33.7
240		22.3	25.9	28.7	31.4	33.9	36.4
250		23.9	27.8	30.8	33.7	36.5	37.5
260		25.6	29.8	33.0	36.1	37.5	37.5

Design Values Of The Transverse Load Capacity Perpendicular To The Joint ($V_{Rd,\perp}$)

Flat Joint, Smooth Surface [kN/m]						
Wall Thickness (mm)	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
120	8.3	9.4	10.4	11.4	12.4	13.4
130	9.5	10.8	11.9	13.1	14.1	15.2
140	10.7	12.1	13.4	14.7	15.9	17.1
150	11.9	13.5	14.9	16.3	17.1	19.0
160	13.1	14.8	16.4	18.0	19.4	20.9
170	14.3	16.2	17.9	19.6	21.2	22.8
180	15.5	17.5	19.4	21.2	23.0	24.7
190	16.7	18.9	19.7	20.9	22.9	26.6
200	17.9	20.2	22.4	24.5	25.5	28.5
210	19.1	21.6	23.9	26.2	28.3	30.4
220	20.3	22.9	25.4	27.8	30.1	32.3
230	21.5	24.3	26.9	29.4	31.8	34.2
240	22.7	25.6	28.4	31.1	33.6	36.1
250	23.9	27.0	29.9	32.7	35.4	37.5
260	25.4	28.3	31.4	34.4	37.2	37.5

Design Values Of The Transverse Load Capacity Perpendicular To The Joint ($V_{Rd,\perp}$)

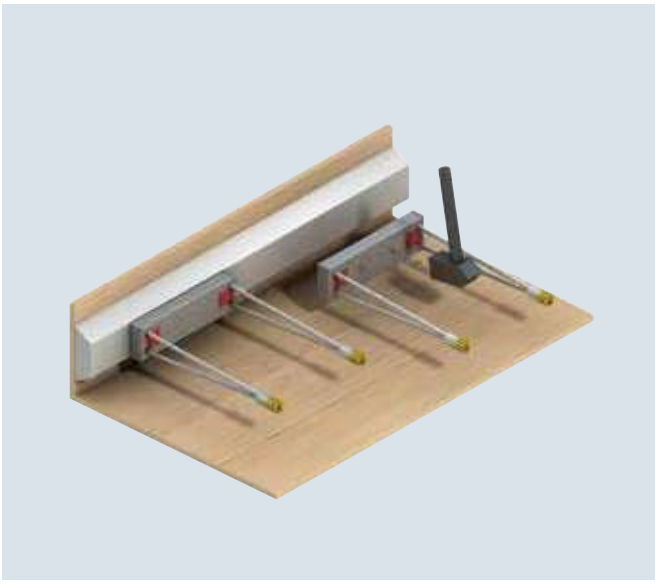
Flat Joint, Chequered Plate Pattern Surface [kN/m]						
Wall Thickness (mm)	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
120	16.7	18.9	20.9	22.9	24.8	26.6
130	19.1	21.6	23.9	26.2	28.3	30.4
140	21.5	24.3	26.9	29.4	31.8	34.2
150	23.9	27.0	29.9	32.7	35.4	37.5
160	26.3	29.7	32.9	36.0	37.5	37.5
170	28.7	32.4	35.9	37.5	37.5	37.5
180	31.1	35.1	37.5	37.5	37.5	37.5
190	33.5	37.5	37.5	37.5	37.5	37.5
200	35.9	37.5	37.5	37.5	37.5	37.5
210	37.5					
220						
230						
240						
250						
260						

Installation

MOMENT Single/Double Loop Box

Step 1

In precast factory, secure batten on the formwork.



Step 2

Position and secure each loop box to the batten using hot glue, nail, or magnetic back cover. Alternatively, each of the loop box can be secured directly to reinforcement using GI wire.

The ferrule end of the wire rope must be positioned perpendicular to the loop box and secured. Ensure zero gap between loop box and batten before concrete pouring can commence.

Step 3

The casted wall panels with MOMENT Loop Box is brought to the site with back cover intact.

Step 4

To assemble wall panels, remove the back cover and unfold the wire ropes.

Step 5

Then, the walls can be lowered using crane. The flexible wire ropes will just rub against each other, deflect, and spring back into position, without any hindrance to the installation process.

Step 6

Place a cottering bar in between the loops. Then, place the formwork to cover the gap between walls. Lastly, pour a suitable grout from above to fill in the gap.

MOMENT Multi Loop Box

Step 1

In precast factory, secure batten on the formwork.

Step 2

Position and secured loop box to the batten using hot glue, nail, or magnetic back cover. Alternatively, the loop box can be secured directly to reinforcement using GI wire.

The ferrule end of the wire rope must be positioned perpendicular to the loop box and secured. Ensure zero gap between loop box and batten before concrete pouring can commence.

Step 3

The casted wall panels with MOMENT Loop Box is brought to the site with back cover intact.

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Place a cottering bar in between the loops. Then, place the formwork to cover the gap between walls. Lastly, pour a suitable grout from above to fill in the gap.

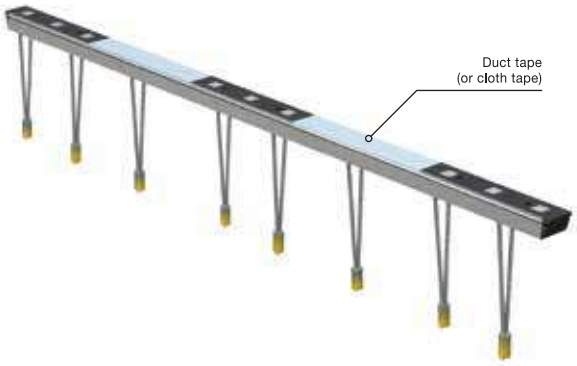
Accessories

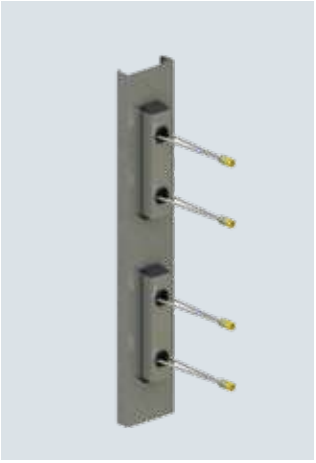
A bespoke Magnetic Back Cover is available for 30mm thick Single, Double and Multi Loop Box.
Features:

- Fast loop box installation compared to traditional methods
- Reduce consumable wastage
- Reusable
- Can be customized for use in Multi Loop Box

Each cover consist of 3 magnets, with a total pull force of 100N per cover.

Magnetic Back Cover





Step 1

Attach MOMENT Loop Box directly to the steel formwork. The ferrule end of the wire rope must be perpendicular and secured.

Step 2

Install the required wall reinforcement, then concrete pour can commence.

Step 3

After the concrete is cured, the steel formwork can be removed.

Step 4

Using a screwdriver or other tools, remove the Magnetic Back Cover by inserting the tool into the hole on the rubber and pulls out gently.

Inspect the Magnetic Back Cover for any damage and clean the. The Magnetic Back Cover can be reused after.

Application Examples on Site

Images of precast walls with the wire ropes of MOMENT Multi Loop Box unfolded after casting.

Images of precast elements with MOMENT Double Loop box on precast yard.

The cloth tape is used to cover the wire ropes before casting and assembly to avoid rust before assembly.

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