**ITEM:** Method Statement

**PRODUCT:** Moment® Loop Box (MLB-S / MLB-D / MLB)

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1.0 MOMENT LOOP BOX METHOD STATEMENT

2.0 PURPOSE
As a guideline for Moment Loop Box installation. Test performed at the initiation of a product to demonstrate that the properties conform to the requirements.

3.0 SCOPE
Installation and Testing

4.0 DEFINITION
MLB-S – Moment Loop Box Single
MLB-D – Moment Loop Box Double
MLB – Multi Loop Box

5.0 MATERIAL/EQUIPMENT
a. Formwork
b. Timber Batten
c. Grout Mix
6.0 PROCEDURE

6.1

- **Single Loop Box** - Timber batten (by contractor)
  - **Identification**: MLB-S
  - **Dimensions**: (mm) b1 55 b2 55 h *)
  - *) depending on loop length

- **Double Loop Box** - Timber batten (by contractor)
  - **Identification**: MLB-D
  - **Dimensions**: (mm) b1 55 - >85 b2 55 - 85 h *)
  - *) depending on loop length

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Fixing to timber formwork:
- nailing
- gluing (adhesive tape, hot glue)

Fixing to steel formwork:
- gluing (adhesive tape, hot glue)
- magnet fixing.

Adjustment, installation of additional reinforcement

Installation tolerance according to official approvals, recommended also for application as constructive connections

<table>
<thead>
<tr>
<th>Horizontal:</th>
<th>Vertical:</th>
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<tbody>
<tr>
<td>Gap width:</td>
<td>Alignment of Moment Loop Boxes:</td>
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<tr>
<td>Regular: 20mm</td>
<td>Regular case: Loops aligned axially at the same level</td>
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<tr>
<td>Minimum: 10mm</td>
<td>Vertical tolerance: max.: 20mm</td>
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<td>Maximum: 40mm</td>
<td>Multi Loop Box Installation</td>
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Installation of additional reinforcement:
Additional reinforcement must be installed following the reinforcement drawing and attached the structural reinforcement

1. Bar B500A, diam. 12mm
2. A vertical tolerance of 20mm maximum is permitted. Wire binding of loops is not compulsory.
3. Bar B500A, diam. 10mm
4. Stirrup B500A, diam. 8mm, anchoring acc. DIN 1045-1

Welding on MLB-S/D/M is not permitted!
On the construction site

1. Precast concrete element with closed MLB - Single/Double
2. Remove the MLB cover (Tape) from the concrete.
3. Setting up the precast element. All wire loops must protrude perpendicularly to the joint, and after deflection during the setting up they should springback into this position.
4. Insert the reinforcement bar diam. 12mm and encase the joint with an appropriate formwork. Prepare the Grout Mix according to the manufacturers instructions. The maximum grouting height is 3.5m, or use a hose. Grout mix is free flowing, no additional compaction is required.

Multi Loop Box

1. Precast concrete element with closed Multi Loop Box
2. *Follow above instruction for all step of installation

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