

**PLAKA - STABOX**  
**Reinforcement connection box**  
REF 01.01.01 - Version V01 - 10/08/2020



**Description**

The reinforcement connection box STABOX is made from a raw steel sheet which is crossed by bendable reinforcement bars of  $\phi 6, 8, 10$  and  $12$  mm. The stirrups are centered at regular distances. The stirrups are bent around mandrels with adapted diameters. The steel casing is closed with a cover and with two removable polystyrene caps.

**Application fields**

All construction joints with projecting rebars of diameter  $\phi 6$  to  $\phi 12$ mm.

**Properties**

	Material
Steel grade of the casing	Cold rolled steel DC001-AM0
Steel grade rebars $\phi 6$ mm	Cold rolled steel B500B
Steel grade rebars $\phi 8, 10$ and $12$ mm	Steel B500B, can be bent and unbent once.
Certification of steel	BENOR, AFNOR and KOMO


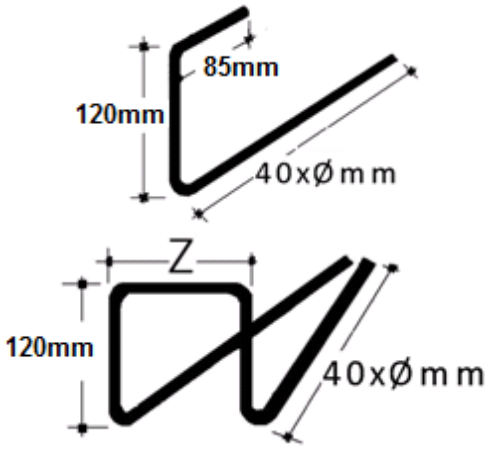
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**Dimensions**

Dimensions		
Description	Geometry	Code
<p>Connection box</p> 	<p>Thickness 0,4 mm or 0,5 mm depending on the type The profile has a dovetail shape. The depth varies between 30 and 45 mm (depends on the diameter and the dimension of the stirrup) Diamond shaped pattern on the surface of the box "V"-shaped folds on the sides of the box Adapted holes for each different diameter of rebar The standard length of the connection boxes is 1,25m and 2,45m depending on the type</p>	-
Cover	Polypropylene	-
Cap	Polystyrene The shape of the cap is adapted to the box shape	-
Stirrup	<p>Standard stirrups :</p>  <p>Z = width of the connection box - 10mm</p> <p>The length of the rebars can be adapted, but the dimensions of the boxes should be considered</p>	-

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**Models**

Model	Geometry			Code
Type 45 S Standard length = 1,25m & 2,45m 	$\phi/E$ mm	Y mm	Weight Kg/m	PLSS0450815(*) PLSS0450820(*) PLSS0451015(*) PLSS0451020(*)
	8/150	85	1,75	
	8/200	85	1,42	
	10/150	85	2,81	
	10/200	85	2,21	
Type 60 S Standard length = 1,25m & 2,45m 	$\phi/E$ mm	Y mm	Weight Kg/m	PLSS0600815(*) PLSS0600820(*) PLSS0601015(*) PLSS0601020(*)
	8/150	85	1,80	
	8/200	85	1,46	
	10/150	85	2,86	
	10/200	85	2,26	
Type 90 S Standard length = 1,25m 	$\phi/E$ mm	Y mm	Weight Kg/m	PLSS0901010125 PLSS0901015125 PLSS0901210125 PLSS0901215125 PLSS0901220125
	10/100	85	4,24	
	10/150	85	3,04	
	12/100	85	6,50	
	12/150	85	4,55	
	12/200	85	3,58	
Type 90 D Standard length = 1,25m & 2,45m 	$\phi/E$ mm	Z mm	Weight Kg/m	PLSD0900815(*) PLSD0900820(*) PLSD0901015(*) PLSD0901020(*)
	8/150	80	3,08	
	8/200	80	2,48	
	10/150	80	5,08	
	10/200	80	3,97	

(\*) code +125 or 245 for 1,25m or 2,45m

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Model	Geometry			Code
Type 120 D Standard length = 1,25m & 2,45m 	$\phi/E$ mm	Z mm	Weight Kg/m	PLSD1200815(*) PLSD1200820(*) PLSD1201015(*) PLSD1201020(*)
	8/150	110	3,27	
	8/200	110	2,65	
	10/150	110	5,31	
	10/200	110	4,18	
Type 160 D Standard length = 1,25m & 2,45m 	$\phi/E$ mm	Z mm	Weight Kg/m	PLSD1600815(*) PLSD1600820(*) PLSD1601015(*) PLSD1601020(*) PLSD1601215(*) PLSD1601220(*)
	8/150	150	3,53	
	8/200	150	2,88	
	10/150	150	5,62	
	10/200	150	4,45	
	12/150	150	8,60	
	12/200	150	6,68	
Type 190 D Standard length = 1,25m 	$\phi/E$ mm	Z mm	Weight Kg/m	PLSD1900815125 PLSD1900820125 PLSD1901015125 PLSD1901020125 PLSD1901215125 PLSD1901220125
	8/150	180	3,93	
	8/200	180	3,26	
	10/150	180	6,07	
	10/200	180	4,87	
	12/150	180	9,10	
	12/200	180	7,14	
Type 230 D Standard length = 1,25m 	$\phi/E$ mm	Z mm	Weight Kg/m	PLSD2300815125 PLSD2301015125 PLSD2301020125 PLSD2301215125
	8/150	220	4,22	
	10/150	220	6,42	
	10/200	220	5,17	
	12/150	220	9,51	

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Model	Geometry			Code
<p>Type DX Standard length = 1,25m</p> <p>Z extra steel</p>	$\phi/E$ mm	Z mm	Weight Kg/m	<p>PLSDX0815(*)</p> <p>PLSDX0820(*)</p> <p>PLSDX1015(*)</p> <p>PLSDX1020(*)</p> <p>PLSDX1215(*)</p> <p>PLSDX1220(*)</p>
	8/150	X-10	3,72	
	8/200	X-10	3,20	
	10/150	X-10	5,24	
	10/200	X-10	4,32	
	12/150	X-10	7,72	
	12/200	X-10	6,16	
<p>Type 120 DS Standard length = 1,25m</p>	$\phi/E$ mm	Z mm	Weight Kg/m	<p>PLSS1201015125</p> <p>PLSS1201210125</p> <p>PLSS1201215125</p>
	10/150	110	5,57	
	12/100	110	12,45	
	12/150	110	8,56	
<p>Type 160 DS Standard length = 1,25m</p>	$\phi/E$ mm	Z mm	Weight Kg/m	<p>PLSS1601015125</p> <p>PLSS1601210125</p> <p>PLSS1601215125</p>
	10/150	150	5,70	
	12/100	150	12,60	
	12/150	150	8,71	
<p>Type 190 DS Standard length = 1,25m</p>	$\phi/E$ mm	Z mm	Weight Kg/m	<p>PLSS1901015125</p> <p>PLSS1901210125</p> <p>PLSS1901215125</p>
	10/150	180	6,03	
	12/100	180	12,93	
	12/150	180	9,04	

(\*) code +125 or 245 for 1,25m or 2,45m

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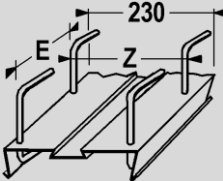
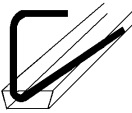
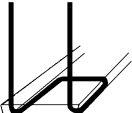
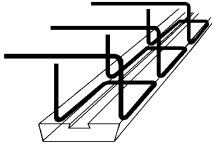
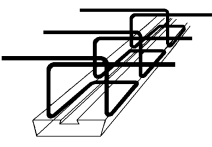
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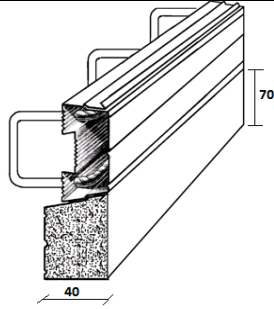
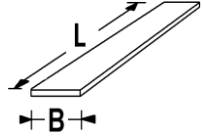

Description	Geometry			Code														
<p>Type 230 DS Standard length = 1,25m</p> 	<table border="1"> <tr> <td><math>\phi/E</math> mm</td> <td>Z mm</td> <td>Weight Kg/m</td> </tr> <tr> <td>10/150</td> <td>180</td> <td>6,03</td> </tr> <tr> <td>12/100</td> <td>180</td> <td>12,93</td> </tr> <tr> <td>12/150</td> <td>180</td> <td>9,04</td> </tr> </table>	$\phi/E$ mm	Z mm	Weight Kg/m	10/150	180	6,03	12/100	180	12,93	12/150	180	9,04		<table border="1"> <tr> <td>PLSS2301015125</td> </tr> <tr> <td>PLSS2301210125</td> </tr> <tr> <td>PLSS2301215125</td> </tr> </table>	PLSS2301015125	PLSS2301210125	PLSS2301215125
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<p>Special folding patterns</p>	<p>Pattern S1 Bent at 90 degrees in 2 mutually perpendicular planes</p>																	
<p>Pattern D4 Reversed stirrups</p>																		
<p>Pattern D6 Reversed stirrups + bending at 90 degrees for one of the 2 bars</p>																		
<p>Pattern D7 Reversed stirrups + bending at 90 degrees for the two bars</p>																		

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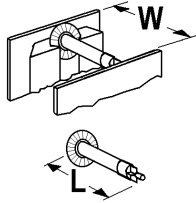
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Model	Geometry	Code																			
ACCESSORIES	<p>Profile for pre-cast slab :</p> <p>The profile is welded in the workshop on the connection box. After removal of the polystyrene filling, the pre-cast slab can be entered.</p> <p>Dimensions: 70 x 40mm</p> 																				
	<table border="1"> <thead> <tr> <th>Type</th> <th>L (m)</th> <th>Weight (Kg/m)</th> </tr> </thead> <tbody> <tr> <td>70 &amp; 40</td> <td>2.40</td> <td>0.85</td> </tr> </tbody> </table>	Type	L (m)	Weight (Kg/m)	70 & 40	2.40	0.85	PLSP													
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	<p>Magnetic strip</p> <p>This magnetic strip is used with steel formwork (in this case the STABOX is equipped with a steel cap)</p>  <p>The width B depends of the width of the STABOX</p>																				
	<table border="1"> <thead> <tr> <th>B mm</th> <th>L mm</th> <th>Weight Kg/1</th> </tr> </thead> <tbody> <tr> <td>29</td> <td>565</td> <td>0.17</td> </tr> <tr> <td>50</td> <td>565</td> <td>0.32</td> </tr> <tr> <td>75</td> <td>565</td> <td>0.45</td> </tr> <tr> <td>105</td> <td>565</td> <td>0.63</td> </tr> </tbody> </table>	B mm	L mm	Weight Kg/1	29	565	0.17	50	565	0.32	75	565	0.45	105	565	0.63	<table border="1"> <tbody> <tr><td>BAM05</td></tr> <tr><td>BAM07</td></tr> <tr><td>BAM10</td></tr> <tr><td>BAM13</td></tr> </tbody> </table>	BAM05	BAM07	BAM10	BAM13
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<p>Bending tool:</p> <p>The use of a bending tool avoids deformations when folding out the rebars (avoid 'bayonet effect')</p> 																					
<table border="1"> <thead> <tr> <th>φ mm</th> <th>L mm</th> <th>Weight Kg/1</th> </tr> </thead> <tbody> <tr> <td>8</td> <td>420</td> <td>0,35</td> </tr> <tr> <td>10</td> <td>520</td> <td>0,61</td> </tr> <tr> <td>12</td> <td>590</td> <td>0,90</td> </tr> </tbody> </table>	φ mm	L mm	Weight Kg/1	8	420	0,35	10	520	0,61	12	590	0,90	<table border="1"> <tbody> <tr><td>FRBD08</td></tr> <tr><td>FRBD10</td></tr> <tr><td>FRBD12</td></tr> </tbody> </table>	FRBD08	FRBD10	FRBD12					
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ACCESSORIES	<p>Spacers :</p> <p>Spacers are available to guarantee good stability of the unit and to prevent shifting in the formwork.</p> <p>The length of the spacers must be 20 mm less than the thickness of the wall.</p> 	<table border="1"> <tr><td>PLSEP13</td></tr> <tr><td>PLSEP14</td></tr> <tr><td>PLSEP15</td></tr> <tr><td>PLSEP16</td></tr> <tr><td>PLSEP18</td></tr> <tr><td>PLSEP20</td></tr> <tr><td>PLSEP21</td></tr> <tr><td>PLSEP22</td></tr> <tr><td>PLSEP23</td></tr> </table>	PLSEP13	PLSEP14	PLSEP15	PLSEP16	PLSEP18	PLSEP20	PLSEP21	PLSEP22	PLSEP23																													
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