

# rbc

*Rebend Connection*





***Bar-us Rebar Connection System is a quick and easy to install method of maintaining continuity of reinforcement at construction joints in concrete***

### **System Description**

Bar-us Rebar Connection System is a quick and easy to install method of maintaining continuity of reinforcement at construction joints in concrete. It consists of a galvanised steel casing with a dimpled surface to provide an effective concrete bond. Pre-bent bars are housed within the casing and are enclosed by a protective cover. Each end of the unit is sealed with a polystyrene block in order to prevent the ingress of concrete.

### **Advantages**

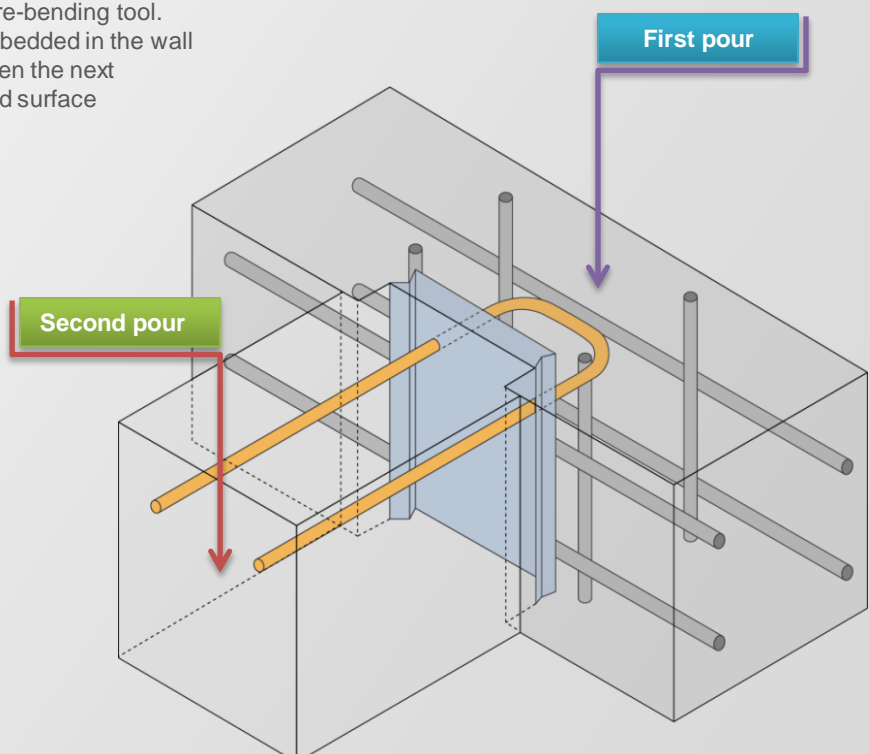
Use of the Rebar Connection System offers many benefits over conventional joint construction, including the simplification of formwork design and removal of the need to drill shuttering. This contributes to the acceleration of the construction process. As the bars remain enclosed within the casing until required, they are protected and the risk of injury from projecting bars is minimized. Easy to use, the system requires no on site training in order to carry out installation.

### **Usage**

The complete unit is nailed to the formwork. Alternatively it can be wired back to the main reinforcement cage. The concrete is then cast. After striking the formwork, the cover is removed and the bars are straightened, ready for lapping onto the main reinforcement, using a re-bending tool. The steel casing remains embedded in the wall and is filled with concrete when the next section is poured, the dimpled surface providing an efficient key.

### **Traceability**

Under the Bar-us Quality Assurance Program, codes are stamped on product. These codes allow the products to be traced back to the original heat of steel.

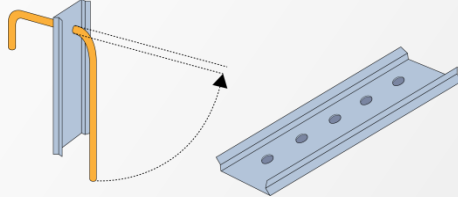




**Bar-us Rebind Connection System is a quick and easy to install method of maintaining continuity of reinforcement at construction joints in concrete**

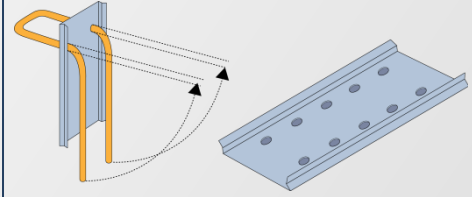
### Types

Bar-us Rebind Connection System is divided into five groups according to its usage in the constructions.



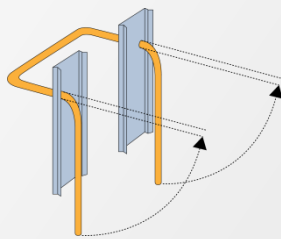
**1 Standard Element with Single Row**

RBC 55 and RBC 85 models



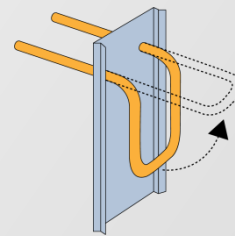
**2 Standard Element with Double Row**

RBC 120, 150, 190 and 220 models



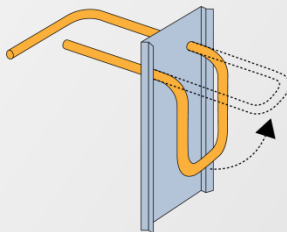
**3 Elements with Vairant Profiles**

RBC 55 and RBC 85 models



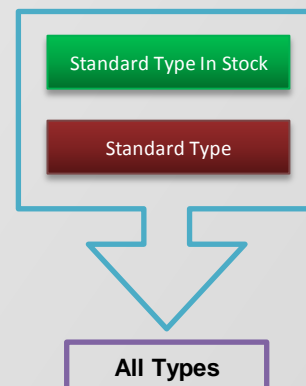
**4 Standard Element as Precast Connection**

RBC 80 model



**5 Elements with Vairant Profiles, Stirrups**

RBC 55 and RBC 85 submodels





**Bar-us Rebend Connection System is a quick and easy to install method of maintaining continuity of reinforcement at construction joints in concrete**

### Dimension Chart

The most used element type is Type 2. Dimensions of the type 2 rebend connection element is listed below. Contact Bar-us for the dimensions of other types. Dimension labels are described on the following page.

BAR-US RBC TYPE 2 ELEMENT DIMENSIONS											
Item	Order Info	Dimensions of starter bars			For element thickness		Case Dimensions				
profile	Rebar $\phi$ / spacing s [mm/cm]	RBC.2.120-	$l_0$ [mm]	h [mm]	b [mm]	$D_1$ [mm]	$D_2$ [mm]	width B [mm]	height $H_1$ [mm]	height width cover $H_2$ [mm]	element weight [kg]
RBC 120	8/15	001	320	170	88	$\geq 19$	$\geq 13$	122	12	24	4.9
	8/20	002									4.1
	8/25	003									3.7
	10/15	004	390		90					30	7.5
	10/20	005									6.1
	10/25	006									5.4
	12/15	007	390		92					36	10.1
	12/20	008	440								8.5
	12/25	009	460								7.6
profile		RBC.2.150-									
RBC 150	8/15	001	320	170	88	$\geq 19$	$\geq 16$	150	12	24	5.3
	8/20	002									4.4
	8/25	003									4.0
	10/10	004	360		90					30	10.8
	10/15	005	390								7.9
	10/20	006	310								6.4
	10/25	007	310		92					36	5.6
	12/10	008	460								16.2
	12/15	009	460								11.5
	12/20	010	460		9.1						
	12/25	011	460		7.9						
profile		RBC.2.190-									
RBC 190	8/15	001	320	170	152	$\geq 19$	$\geq 19$	186	12	24	5.8
	8/20	002									4.9
	8/25	003									4.5
	10/10	004	390		154					30	11.5
	10/15	005									8.5
	10/20	006									6.9
	10/25	007	430		156					36	6.2
	12/10	008	460								17.0
	12/15	009	460								12.1
	12/20	010	460		9.7						
	12/25	011	460		8.5						
profile		RBC.2.220-									
RBC 220	8/15	001	320	170	188	$\geq 19$	$\geq 23$	222	12	24	6.2
	8/20	002									5.3
	8/25	003									4.9
	10/10	004	390		190					30	12.1
	10/15	005									9.0
	10/20	006									7.4
	10/25	007	460		192					36	6.6
	12/10	008	17.7								
	12/15	009	12.7								
	12/20	010	10.2								
	12/25	011	9.0								

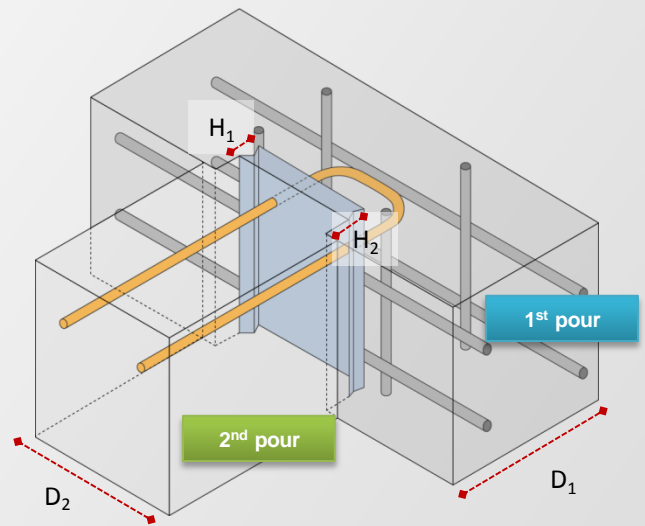
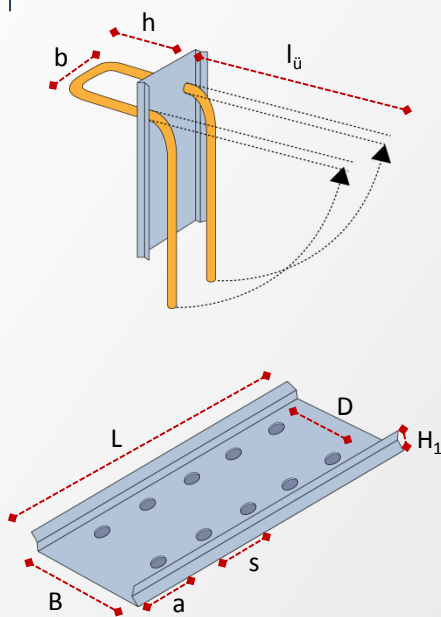
To provide different construction or mechanical code requirements, Bar-us reserves the right to make changes, design modifications corrections and similar revisions on products and equipment as it sees fit, without notice. All products mentioned herein is promotional nature only. Please contact Bar-us for further technical references.



*Bar-us Rebar Connection System is a quick and easy to install method of maintaining continuity of reinforcement at construction joints in concrete*

### Stirrup Dimensions and Dimension Labels

Dimension labels of the Type 2 element are as follows.



BAR-US RBC TYPE 2 STIRRUP DIMENSIONS

Element Length L	Stirrup spacing [cm]	number of stirrup	end distance a [cm]
standard element L = 1250 mm	10	12	7.5
	15	8	10.0
	20	6	12.5
	25	5	12.5

### Ordering

Elements can be ordered according to the table on the previous page compatible with the ordering system below:

**RBC 220 - 12/15 - 2 - 1250**

