

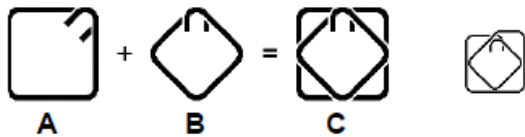
## What are "Combi" Stirrups?

A Fletcher Reinforcing "Combi" stirrup is one that is a combination of what would have previously been two or more stirrups. These stirrups can save you a significant amount of fabrication time on site. It also creates less congestion thus creating more space for concrete flow and vibrator access within the reinforcing cage during construction. The idea came after studying practices in overseas countries that are in seismic zones. In many circumstances, there would also be a reduction in the weight of bar used.

The principle use of a "combi" stirrup is in a column. It was previously considered to be acceptable to have four bars in a column of a multi storey building. Today, it is normal for a column to require at least eight bars.

### Stirrup Types

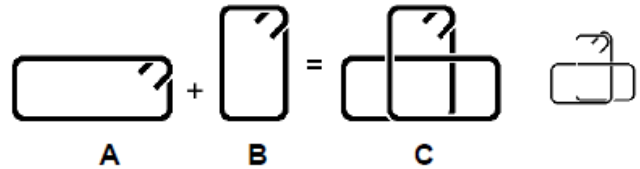
#### Stirrup Type FR11



#### FR11 Example - R12

Stirrup	Size	Cut Length
A	600x600	2600
B	445x445	1980
<b>Total for A + B</b>		<b>4580</b>
<b>C</b>	<b>600x600</b>	<b>4400</b>

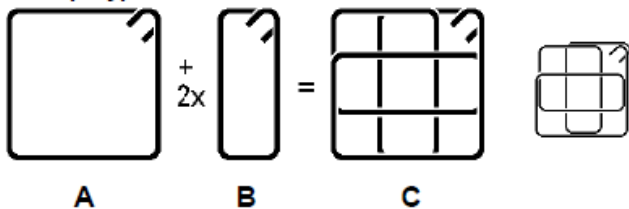
#### Stirrup Type FR41



#### FR41 Example - R12

Stirrup	Size	Cut Length
A	300x600	2000
B	600x300	2000
<b>Total for A + B</b>		<b>4000</b>
<b>C</b>	<b>n/a</b>	<b>3720</b>

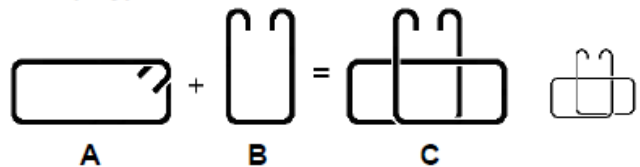
#### Stirrup Type FR21



#### FR21 Example - R12

Stirrup	Size	Cut Length
A	600x600	2600
B	600x240	1880
<b>Total for A + 2x B</b>		<b>6360</b>
<b>C</b>	<b>600x600</b>	<b>5860</b>

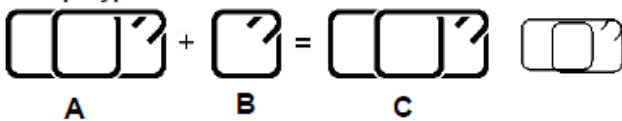
#### Stirrup Type FR42



#### FR42 Example - R12

Stirrup	Size	Cut Length
A	300x600	2000
B	600x300	1720
<b>Total for A + B</b>		<b>3720</b>
<b>C</b>	<b>n/a</b>	<b>3440</b>

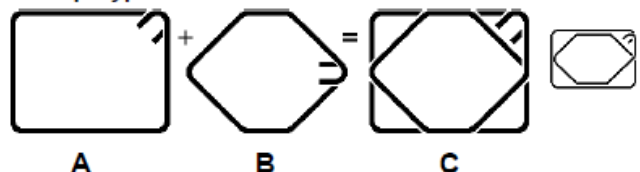
#### Stirrup Type FR31



#### FR31 Example - R12

Stirrup	Size	Cut Length
A	600x300	2000
B	300x300	1400
<b>Total for A + B</b>		<b>3400</b>
<b>C</b>	<b>600x300</b>	<b>3140</b>

#### Stirrup Type FR51



#### FR51 Example - R12

Stirrup	Size	Cut Length
A	300x600	2000
B	600x300	1700
<b>Total for A + B</b>		<b>3700</b>
<b>C</b>	<b>n/a</b>	<b>3460</b>