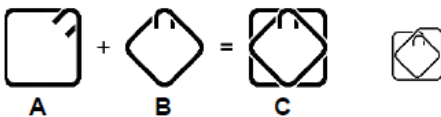


## What are “Combi” Stirrups?

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.

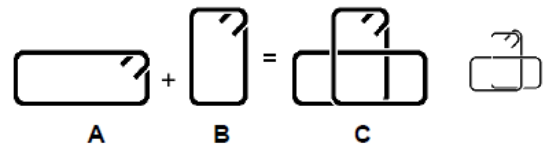
### Stirrup Types

#### Stirrup Type FR11



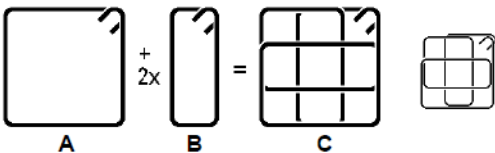
FR11 Example - R12		
Stirrup	Size	Cut Length
A	600 x 600	2600
B	445 x 445	1980
<b>Total for A + B</b>		<b>4580</b>
C	600 x 600	4400

#### Stirrup Type FR11



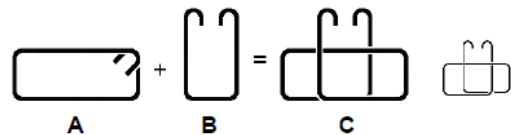
FR41 Example - R12		
Stirrup	Size	Cut Length
A	300 x 600	2000
B	600 x 300	2000
<b>Total for A + B</b>		<b>4000</b>
C	n/a	3720

#### Stirrup Type FR21



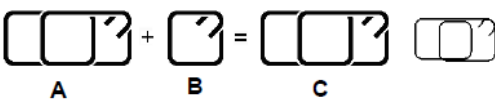
FR21 Example - R12		
Stirrup	Size	Cut Length
A	600 x 600	2600
B	600 x 240	1880
<b>Total for A + 2x B</b>		<b>6360</b>
C	600 x 600	5860

#### Stirrup Type FR42



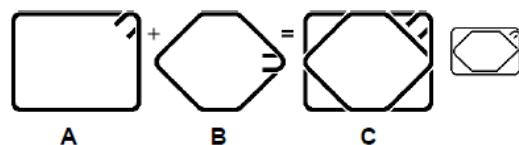
FR41 Example - R12		
Stirrup	Size	Cut Length
A	300 x 600	2000
B	600 x 300	1720
<b>Total for A + B</b>		<b>3720</b>
C	n/a	3440

#### Stirrup Type FR31



FR31 Example - R12		
Stirrup	Size	Cut Length
A	600 x 300	2000
B	300 x 300	1400
<b>Total for A + 2</b>		<b>3400</b>
C	600 x 300	3140

#### Stirrup Type FR51



FR51 Example - R12		
Stirrup	Size	Cut Length
A	300 x 600	2000
B	600 x 300	1700
<b>Total for A + B</b>		<b>3700</b>
C	n/a	3460