

Calculation of material consumption - tensioning



When calculating material consumption, extra fabric to fold along the edges of the formwork must be added to the amount of fabric needed to cover the surface to be cast.

Consequently, the size of the Formtex® liner must exceed the size of the surface to be cast to ensure correct installation.

Below is a calculation model for determination of roll size for tensioning of a given number of formwork elements.

Formtex® standard roll size

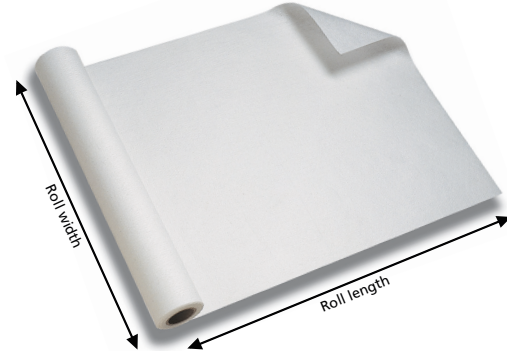
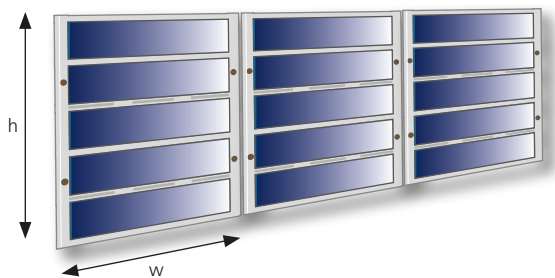
Width	Length
2.75 m	50 m
3.20 m	50 m
4.00 m	50 m

Calculation of Formtex® roll size

Minimum roll length (insert m):
 $(h + 0.5 \text{ m}) \times \text{number of formwork elements}$

Minimum roll width (insert m):
 $w + 0.4 \text{ m}$

h and **w** are height and width of formwork panel as illustrated below.



Calculation example

A wall cast with Formtex® on one side.
 Wall dimension 4 x 20 m.

A total of 10 formwork panels, each 4 x 2 m, are to be used.

Minimum roll size

Roll length: $(4 \text{ m} + 0.5 \text{ m}) \times 10 \text{ elements} = 45 \text{ m}$

Roll width: $2 + 0.4 = 2.4 \text{ m}$

The correct roll size to order is:
2.75 x 50 m