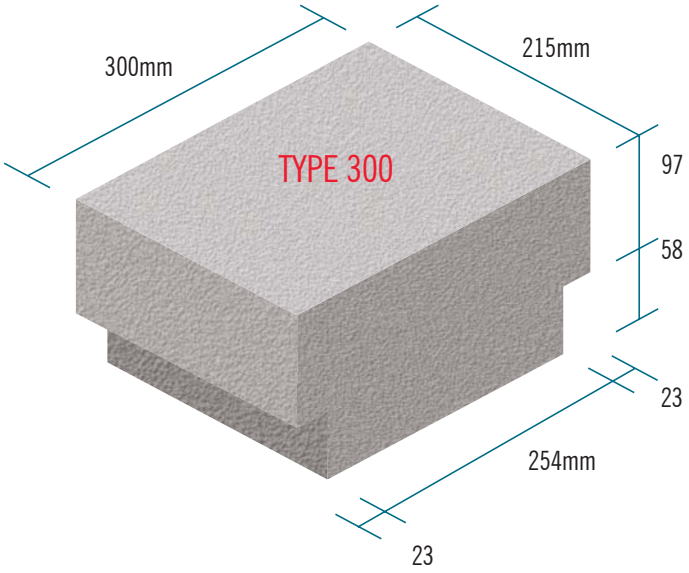
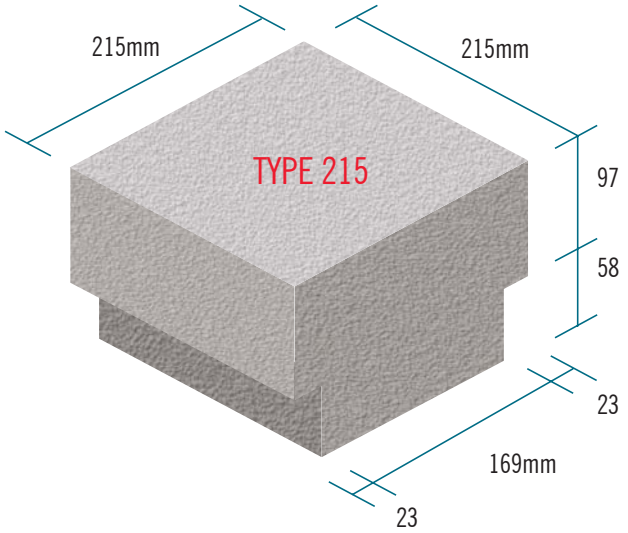
# T joist* flooring system... first floor T profile blocks




* commonly known as beam

Due to increases in floor mass required to comply with Building Regulations Part E, Stowell Concrete now offer a T-shaped block, for use with their 155mm deep floor joists, that will satisfy the majority of requirements, but will need pre-completion testing.

Stowell T joist blocks can be used at 374mm or 289mm centres.

Stowell T joist blocks have a nominal density of 1950kg/m$^3$.

Careful consideration of their use should be made at the design stage as there is less flexibility in their use e.g. can only use double joists, not triples where joists interlink.

At 374mm centres the mass of 1m$^2$ of floor = approximately 320kg.

At 289mm centres the mass of 1m$^2$ of floor = approximately 325kg.

Although the system provides a flush soffit **it is not recommended** that a plaster finish is applied directly to them.

**TYPE 300** – 21 per pack
approx. pack weight 390kg

**TYPE 215** – 28 per pack
approx. pack weight 364kg

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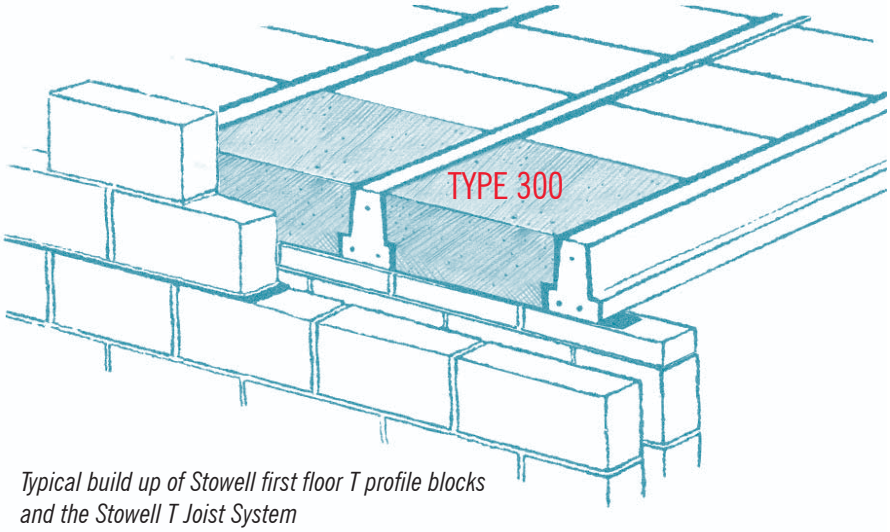
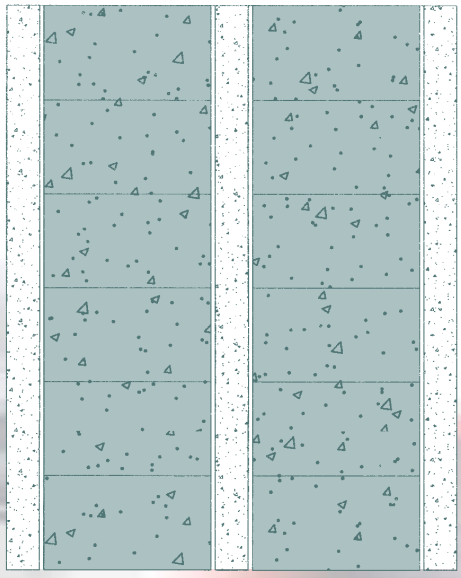
# First floor T profile blocks

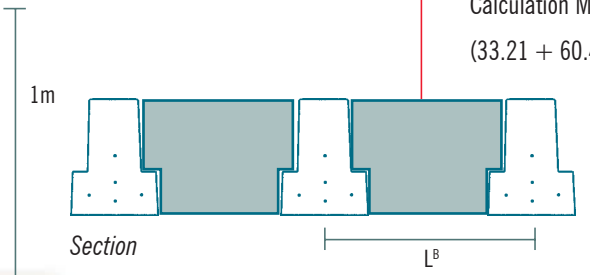



*Typical build up of Stowell first floor T profile blocks and the Stowell T Joist System*



*Plan*

*Joist and block floor dimensions*




Calculation showing mass of floor at first floor level using block density of 1950kg/m$^3$ and single joists at 374mm centres...

$M^{joist.1m}$ ..... 33.21kg

$M^{block.1m}$ ..... 86.35kg

$L^b$ ..... 374mm

$M^F$ = mass per unit area of floor (kg/m$^2$)

Calculation $M^F = (M^{joist.1m} + M^{block.1m})/L^b$

$(33.21 + 86.35)/0.374 = 319.68$kg/m$^2$

Calculation showing mass of floor at first floor level using block density of 1950kg/m$^3$ and single joists at 289mm centres...

$M^{joist.1m}$ ..... 33.21kg

$M^{block.1m}$ ..... 60.45kg

$L^b$ ..... 289mm

$M^F$ = mass per unit area of floor (kg/m$^2$)

Calculation $M^F = (M^{joist.1m} + M^{block.1m})/L^b$

$(33.21 + 60.45)/0.289 = 324.00$kg/m$^2$

All products are available ex works.
Prices on application.
Telephone our sales office for further information and quotations.

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