BISON PRECAST
a Forterra brand

TECHNICAL GUIDANCE NOTE

Loading of hollowcore with blocks during construction - 25 April 2017

REQUIREMENTS FOR LOADING OUT HOLLOWCORE FLOORS WITH BLOCKWORK DURING CONSTRUCTION

The following data sheet is intended to provide general advice where packs of blockwork are required to be supported off hollowcore floors during construction.

When placing packs of blockwork the following conditions shall be met:

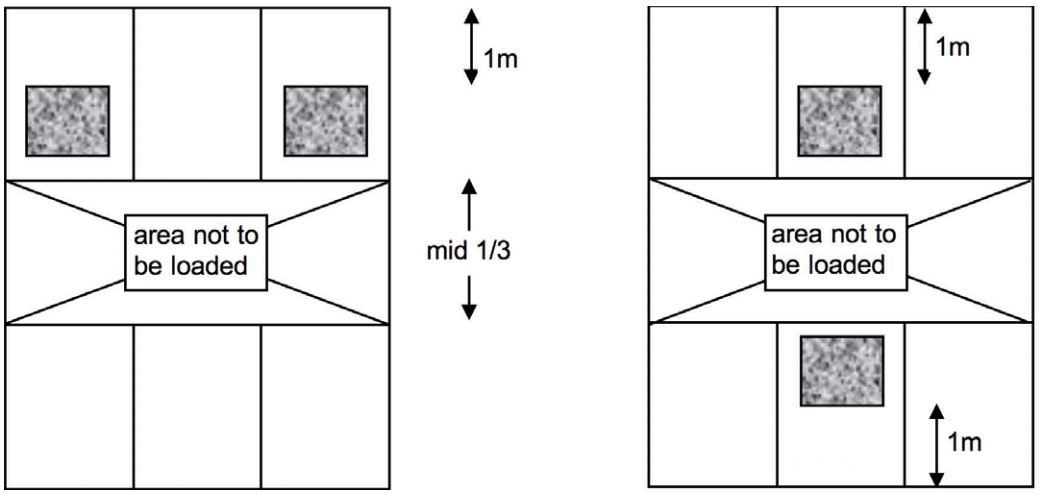
- Units are to be grouted and left for 72 hours
- Only single packs (no multiple stacking)
- Avoid mid third of the slabs
- Neighbouring hollowcore slabs are to be left unloaded so that the load can be shared between them

The following table identifies the capacity of Fortera hollowcore units to support packs of blockwork for two load cases and incorporates data for 72No. block packs, 90No. block packs and Thermalite, medium dense and dense blocks.

- Load case one is when packs of blockwork are required to be stacked on one end only of the unit.
- Load case two is when packs of blockwork are required to be stacked on both ends of the unit.

The load capacity table is based on the self weight of the floor slab plus the pack/s of blockwork and incorporates a construction load of 1.5kN/m2. No allowance has been made for any finishes or any other loads.

Please refer to figure 1 for clarification of the two load cases and conditions relating to the positioning of the packs.



Load case 1 Load case 2

Figure 1 - Locations where packs of blockwork can be placed

If mortar tubs are to be used then these can replace a pack of blocks provided that the weight is equivalent or less.

The following data sheet is for plain slabs only. If slabs have openings, notches or support steel trimmer beams then advice must be sought from Forterra's Technical Department.

OUR PEOPLE. OUR PASSION. OUR PRODUCTS
The components you need for a more successful project.
Bison Precast - Tetron Point - William Nadin Way - Swadlincote - Derbyshire - DE11 0BB
01283 817 500 concrete@bison.co.uk bison.co.uk

BISON PRECAST
a Forterra brand

TECHNICAL GUIDANCE NOTE

Loading of hollowcore with blocks during construction - 25 April 2017

Table 1 – maximum spans for 72 pack size

Load case 1 - 72 blocks - Thermalite - 576kg/m³								
	Span (m)							
Slab	4	5	6	7	7.5	8	9	10
P150C								
A150/A150H								
A159								
A159H								
A200								
A250								

Load case 2 - 72 blocks - Thermalite - 576kg/m³								
	Span (m)							
Slab	4	5	6	7	7.5	8	9	10
P150C								
A150/A150H								
A159								
A159H								
A200								
A250								

Load case 1 - 72 blocks - medium dense - 1500kg/m³								
	Span (m)							
Slab	4	5	6	7	7.5	8	9	10
P150C								
A150/A150H								
A159								
A159H								
A200								
A250								

Load case 2 - 72 blocks - medium dense - 1500kg/m³								
	Span (m)							
Slab	4	5	6	7	7.5	8	9	10
P150C								
A150/A150H								
A159								
A159H								
A200								
A250								

Load case 1 - 72 blocks - dense - 2000kg/m³								
	Span (m)							
Slab	4	5	6	7	7.5	8	9	10
P150C								
A150/A150H								
A159								
A159H								
A200								
A250								

Load case 2 - 72 blocks - dense - 2000kg/m³								
	Span (m)							
Slab	4	5	6	7	7.5	8	9	10
P150C								
A150/A150H								
A159								
A159H								
A200								
A250								

OUR PEOPLE. OUR PASSION. OUR PRODUCTS
The components you need for a more successful project.
Bison Precast - Tetron Point - William Nadin Way - Swadlincote - Derbyshire - DE11 0BB
01283 817 500 concrete@bison.co.uk bison.co.uk

TECHNICAL GUIDANCE NOTE

Loading of hollowcore with blocks during construction - 25 April 2017

Table 2 – maximum spans for 90 pack size

Load case 1 - 90 blocks - Thermalite - 576kg/m³								
	Span (m)							
Slab	4	5	6	7	7.5	8	9	10
P150C								
A150/A150H								
A159								
A159H								
A200								
A250								

Load case 2 - 90 blocks - Thermalite - 576kg/m³								
	Span (m)							
Slab	4	5	6	7	7.5	8	9	10
P150C								
A150/A150H								
A159								
A159H								
A200								
A250								

Load case 1 - 90 blocks - medium dense - 1500kg/m³								
	Span (m)							
Slab	4	5	6	7	7.5	8	9	10
P150C								
A150/A150H								
A159								
A159H								
A200								
A250								

Load case 2 - 90 blocks - medium dense - 1500kg/m³								
	Span (m)							
Slab	4	5	6	7	7.5	8	9	10
P150C								
A150/A150H								
A159								
A159H								
A200								
A250								

Load case 1 - 90 blocks - dense - 2000kg/m³								
	Span (m)							
Slab	4	5	6	7	7.5	8	9	10
P150C								
A150/A150H								
A159								
A159H								
A200								
A250								

Load case 2 - 90 blocks - dense - 2000kg/m3								
	Span (m)							
Slab	4	5	6	7	7.5	8	9	10
P150C								
A150/A150H								
A159								
A159H								
A200								
A250								

OUR PEOPLE. OUR PASSION. OUR PRODUCTS
The components you need for a more successful project.
Bison Precast - Tetron Point - William Nadin Way - Swadlincote - Derbyshire - DE11 0BB
01283 817 500 concrete@bison.co.uk bison.co.uk