STEICO *tradejoist*Joist Selection Guide

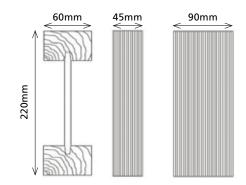
Construction elements – made naturally out of wood



STEICOtradejoist TJ60/220 THE SIMPLER SOLUTION



- STEICOtradejoist available in 3.6 m, 4.8 m & 6.0 m
- STEICOultralam sizes to suit 45 mm @ 3.0 m, 90 mm @ 4.8 m
- Spans up to 5.0 m for standard loads
- Solid timber flange for traditional fixings
- Colour coated for enhanced moisture resistance
- All beams clearly stamped with usage criteria
- STEICO complete floor kits, properly installed eliminates floor squeaks
- Lightweight and easy to cut
- · Ease of access for service runs
- Consistent quality BBA approved product



For further information, please visit www.steico.co.uk

STEICOtradejoist **Selector**

THE SIMPLER ENGINEERED JOIST SOLUTION STEP 1, STEP 2, STEP 3 ... ✓

STEP 1 Select center spacing for joist A&B

Clear Span of Joist													
	<4.	0 m	4.1 m	4.2 m	4.3 m	4.4 m	4.5m	4.6 m	4.7 m	4.8 m	4.9 m	5.0 m	5.1 m
300 c/c							V						х
400 c/c	←								х	х	Х	х	х
480 c/c	\	,					Х	Х	х	х	х	х	х
600 c/c	€			Х	х	Х	х	х	х	х	х	х	х

x not allowed

STEP 2 Select Header C

Clear Spa]						
Clear Span of Joist B		1.0 m	1.5 m	2.0 m	2.5 m	3.0 m	ĺ
	1.0 m						use TJ60/220
	1.5 m						
	2.0 m						1
	3.0 m					/	use 45mm ULR
	3.5 m					>	
	4.0 m						use 90mm ULR

STEP3 Select Trimmer D

Header C Material	Clear Span of Trimmer D						
neader C Material	3.6 m	3.9 m	4.2 m	4.5 m	4.8 m		
TJ60/220	2 x TJ	2 x TJ	2 x TJ	90 ULR	2 x 90 ULR		
45 mm STEICOultralam	2 x TJ	2 x TJ	90 ULR	2 x 90 ULR	2 x 90 ULR		
90 mm STEICOultralam	2 x TJ	90 ULR	2 x 90 ULR	2 x 90 ULR	2 x 90 ULR		

All dimensions are Permissible clear spans for domestic floor joists designed to BS5268

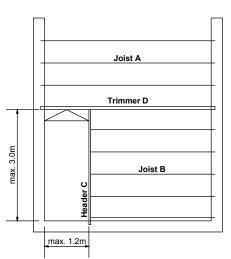
Service Class 1 Imposed load not exceeding 1.5 kN/m². Dead load not exceeding 0.75 kN/m² $(0.5 \, \text{kN/m}^2 \, \text{Dead} + 0.25 \, \text{kN/m}^2)$ non-load bearing partitions)

The following notes should be considered when selecting **Header C materials in STEP 2:**

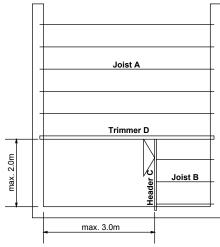
- a. When Trimmer D or Header C support staircase loads from above and below, Header C material should be a minimum 45 mm STEICOultralam R (ULR).
- b. Where Header C is 2.0 m or longer, and supports the head of the staircase, Header C material should be a minimum 45 mm STEICOultralam R (ULR).

WORKED EXAMPLE

Staircase Perpendicular to Joists



Staircase Parallel to Joists



Joist span = 4.5 m Staircase perpendicular = $2.8 \,\mathrm{m} \times 1.1 \,\mathrm{m}$

STEP 1

Joist A Span = 4.5 m Centers = 400 mm Joist B Span = $3.4 \, \text{m} (4.5 \, \text{m} - 1.1 \, \text{m})$ Centers = 600 mm

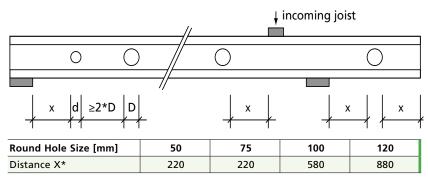
STEP 2

Span Joist $B = 3.4 \,\mathrm{m}$ (use $3.5 \,\mathrm{m}$) Length of Header $C = 2.8 \,\mathrm{m}$ (use 3.0 m) Header $C = 45 \, \text{mm STEICO}_{ultralam R}$

STEP 3

Header C material = 45 mm STEICOultralam R Span of Trimmer $D = 4.5 \,\text{m}$ Trimmer $D = 2 \times 90 \text{ mm}$ STEICOultralam R

HOLES CAN BE CUT THROUGH THE STEICOtradejoist IN LINE WITH THE DRAWING AND TABLE BELOW



^{*}Minimum distance in mm from inside face of any support to nearest edge of hole.

20 mm holes can be drilled anywhere in the web. Distance between hole edges min 40 mm.

For larger holes close to supports use Simpson IHS. Fixed in line with manufacturers recommendations.















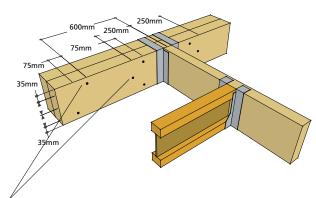


METALWORK SELECTOR

Masonry		use	Simpson	or	Cullen
Single	TJ60/220	\rightarrow	JHMI225/61	\rightarrow	JHI-61-225
Double	TJ60/220	\rightarrow	HJHMI225/120	\rightarrow	RBJHI-122-225
Single	45mm STEICOultralam	\rightarrow	HJHMI225/45	\rightarrow	RBJHI-46-225
Single	90mm STEICOultralam	\rightarrow	HJHMI225/91	\rightarrow	RBJHI-92-225
Double	90mm STEICOultralam	\rightarrow	HJHMI225/180	\rightarrow	RBJHI-183-225
Timber		use	Simpson	or	Cullen
Single	TJ60/220*	\rightarrow	ITB220/61	\rightarrow	UH-61-220
Single	45mm STEICOultralam	\rightarrow	HITB-LT220/47	\rightarrow	HUH-46-220
Single	90mm STEICOultralam	\rightarrow	HITB-LT220/91	\rightarrow	HUH-92-220

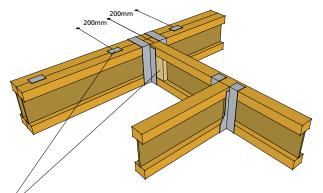
^{*}if TJ60/220 is a Stair Header use HITB-LT220/61 or HUH-61-220.

STEICOultralam CONNECTION



Fix with 2 rows of Simpson SDW22634 screws at max 600 mm centers, with an additional 3 screws both sides of incoming member

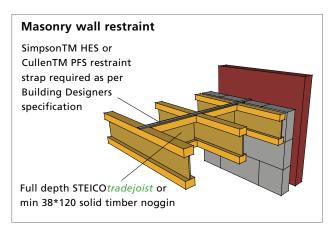
STEICOtradejoist CONNECTION

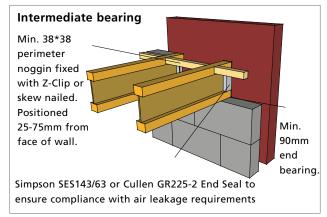


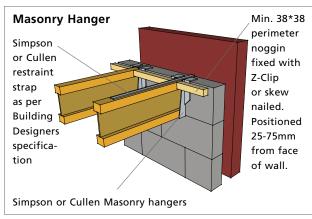
Use 25 mm x 100 mm x 125 mm ply/OSB web stiffener with STEICOtradejoist header.

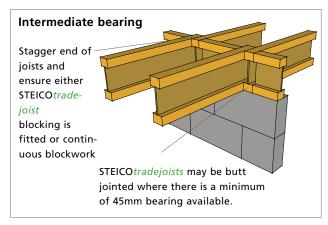
Number of multi ply connections at incoming member as table below.

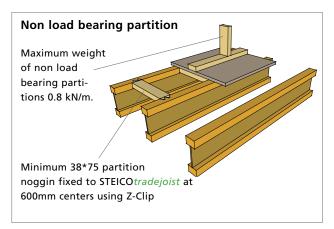
Incoming Member	Simpson MJC	Cullen I-Clip		
TJ60/220	1 pair either side	1-either side		
STEICOultralam	2 pairs either side	2-either side		

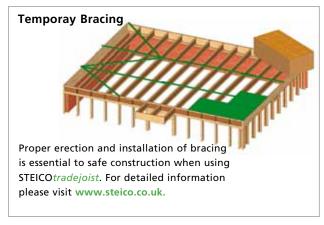












For additional fixing details please refer to full STEICO Technical manual available at www.steico.co.uk



Do not angle cut



Do not notch



Do not walk on unbraced joists



Do not cut holes over bearings



Do not splay hangers











Your STEICO Dealer

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