

Trisobuild™ 'U' Values

The depth below refers to the spacer bracket & quilt insulation height above the standard top hat and assumes purlin centres of 1800mm and bracket centres of 1000mm

- Depth 100 = 0.23 W/m²K.
- Depth 120 = 0.20 W/m²K.
- Depth 140 = 0.19 W/m²K.
- Depth 180 = 0.16 W/m²K.



LPS1181:1 Approved
460u/14,15,16 & 23

Tata Steel retain the right to amend
the construction and technical specifications
shown on this drawing without prior notice.

TATA STEEL

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PROJECT
TYPICAL TRISOBUILD™
BUILT UP ROOF DETAIL

TITLE
Sound Absorption System - Trough
perforated RL32 with trough infills

DRAWN BY	JCA	SCALE	NTS
APPROVED BY	DA	TOLERANCES	
DATE	14/06/10	DRG. No.	R1-046-02-B

Test Report Ref: L/3142(3) Tested: 30/03/2010

Frequency (Hz)	Sound Absorption	
	$\bar{\alpha}_w$	$\bar{\alpha}_s$
50	0.26	
63	0.65	0.50
80	0.59	
100	0.90	
125	0.93	1.00
160	1.12	
200	1.14	
250	1.00	1.00
315	1.08	
400	1.08	
500	1.10	1.00
630	1.09	
800	1.05	
1000	0.99	1.00
1250	0.90	
1600	0.76	
2000	0.71	0.75
2500	0.72	
3150	0.74	
4000	0.67	0.70
5000	0.69	

Single Figure Rating: $\bar{\alpha}_w = 1.00$, Sound Absorption Class B

The tested construction is as drawn, deeper spacers and thicker layers of glass fibre quilt can be used for lower U-value requirements, and would not be expected to be detrimental to the acoustic performance.

