

Part section at **X** scale 1 : 50

Proposal for a rear kitchen/living room extension to the bungalow at:
21 Kingswell Ride Cuffley Herts EN6 4LH

Scale : 1:100 and as noted. (A3)

Date : Aug 2017

Laurie Reynolds 01707 652794

Revision:
20th Oct 2017 roof insulation note added- this sheet (7 of 8) only.
10th Oct 2017 Re-issued BR with building regs detail.

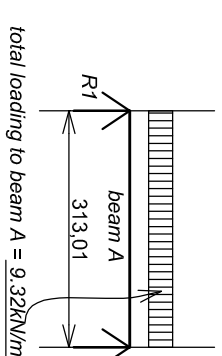
DRG 138 -17BR sheet 7 of 8

loading to beam A
Main roof pitched tiled area = 178.44²m. 2/3 of the dead load is taken on the outer perimeter walls at 32.52m run. DL : tile, battens, rafters, felt and insulation = 1.05kN/m² = 3.80kN/m DL x area/perimeter
Main house ceiling DL = 0.31x ceiling span/2 = 0.31x5.2/2 = 0.81kN/m DL

Main pitched roof live load = plan area x 0.6/ perimeter = 74.14 x 0.6 / 32.52 = 1.37kN/m LL

New flat roof DL = 1.03x span/2 = 1.93kN/m DL

New flat roof LL = 0.75x span/2 = 1.41kN/m LL



Support steel A, 2 No 150 x 90 x 24 PFC bolt together using thick wall machine cut tubular steel spacers and M10 bolting at 90cm spacing. Each end mounted on 225 x 200 x 150mm high reinforced concrete pad stones. Encase steels in 1/2 hr fire check cladding.

total loading to beam A = 9.32kN/m