Minimum Bearing

Beam 1 - 200mm
Beam 2 - 150mm
Beam 3 - 150mm
Beam 4 - 150mm

All dimensions and beam lengths to be checked on site to prevent error. Ensure you add sufficient bearing each end.

Example
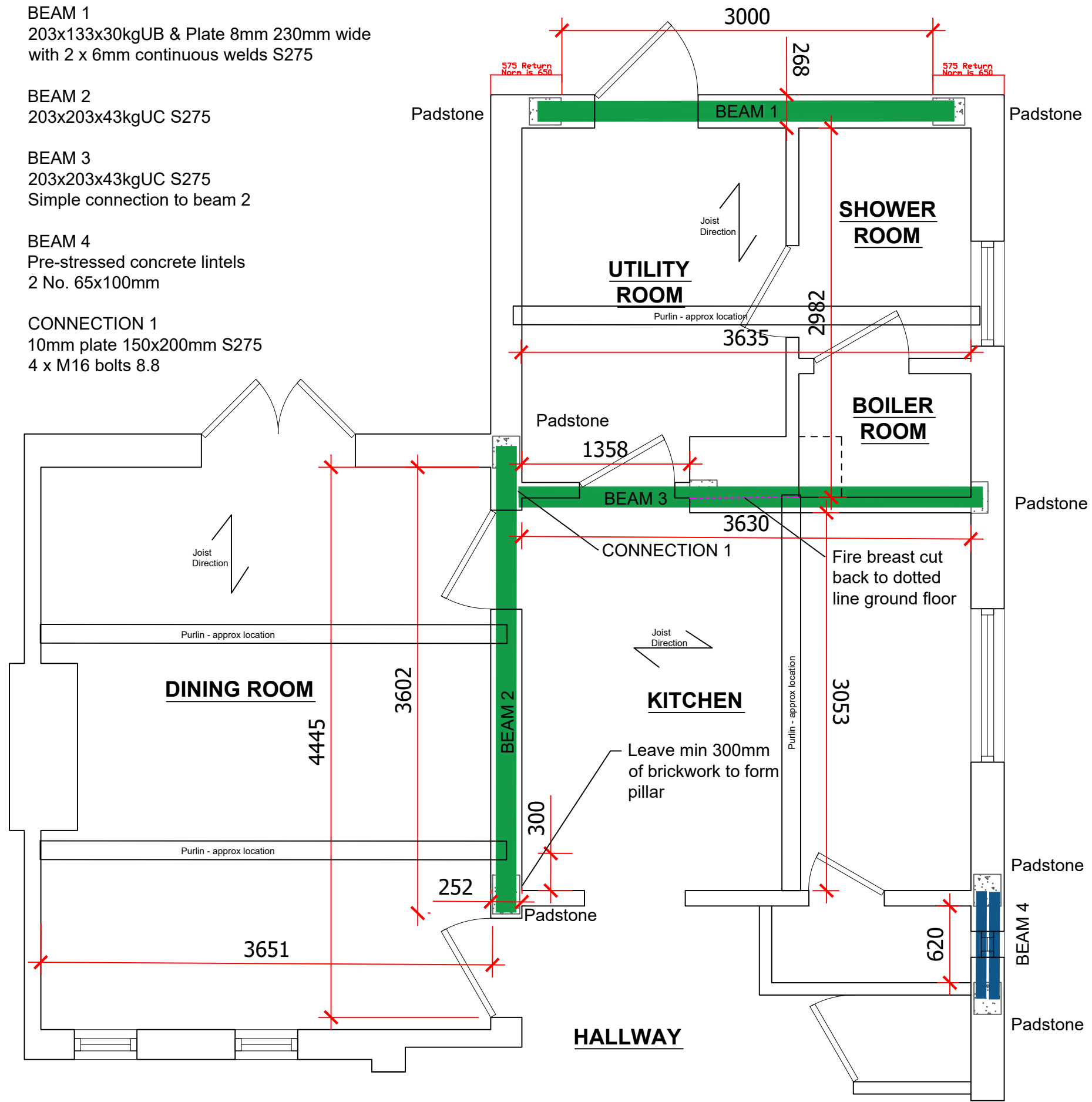BEAM 3
span 3630 + 150 bearing + 100 connection = 3880mm

BEAM 1
203x133x30kgUB & Plate 8mm 230mm wide with 2 x 6mm continuous welds S275

BEAM 2
203x203x43kgUC S275

BEAM 3
203x203x43kgUC S275
Simple connection to beam 2

BEAM 4
Pre-stressed concrete lintels
2 No. 65x100mm

CONNECTION 1
10mm plate 150x200mm S275
4 x M16 bolts 8.8

Structural Beam Layout & Design

Hughes — Load Span Tables for Prestressed Lintels

4" x 3" Prestressed Concrete Lintels
65mm x 100mm

Nominal Length mm	Safe Load Capacity[1] On Edge kN/m Rm = 0.53 kNm	Safe Load Capacity[1] On Flat kN/m Rm = 0.21 kNm
900	37.43	22.27
1050	33.54	20.66
1200	29.65	19.05
1350	25.76	17.44
1500	21.87	15.83
1650	17.98	14.22
1800	14.09	12.61
1950	10.20	11.01
2100	7.54	8.88
2250	6.29	6.76
2400	5.24	4.64

BEAM 4
Assume 5 kN/m per skin of brickwork, or 10 kN/m 225mm solid masonry wall.
Referring to chart above, 2 No. concrete lintels lying flat spanning 620mm is PASS.