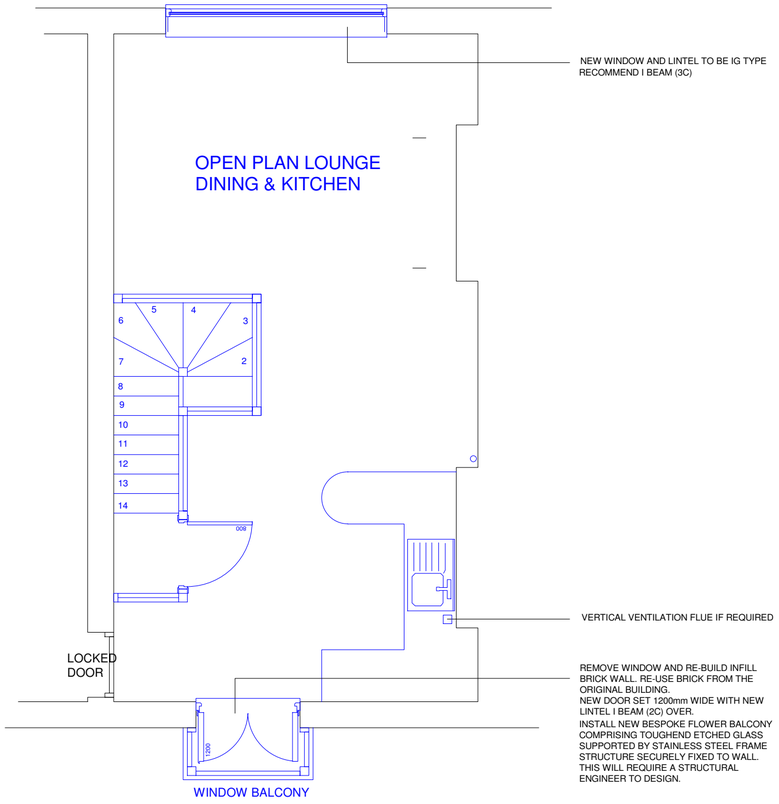
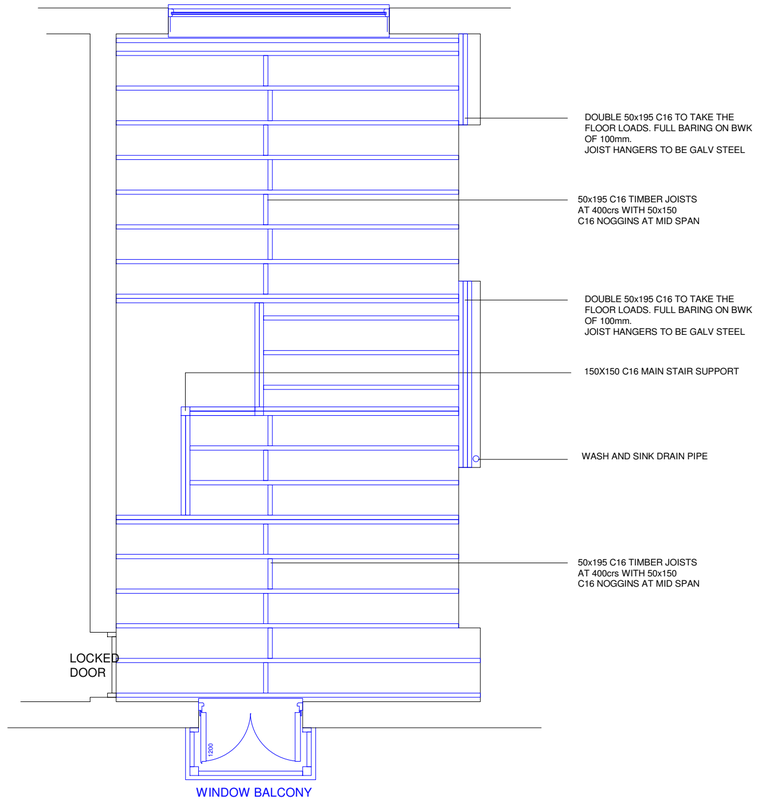
PROPOSED SECOND FLOOR PLAN

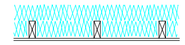


FLOOR JOIST LAYOUT



LOFT INSULATION OVER CEILING

INSULATION BETWEEN & OVER CEILING JOISTS
USE EARTHWOOL OR ROCKWOOL ROLL
100mm BETWEEN AND 170mm OVER.

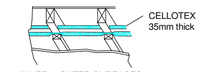


INNER & OUTER SURFACES	= 0.18
INSULATION 0.27/0.044	= 6.14
PLASTER BOARD CLG 0.013/0.16	= 0.08
'U' VALUE = 0.156 W/sqmK	= 6.40

'U' VALUE ALLOWABLE = 0.16W/sqmK

LOFT INSULATION BETWEEN RAFTERS

ACTIS TRISO SUPER 10 INSULATION
INSTALLED ACCORDING TO THE
MANUFACTURERS SPECIFICATIONS.
SUBJECT TO BUILDING CONTROL.

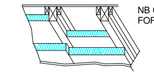


INNER & OUTER SURFACES	= 0.18
CONCRETE TILES 0.025/0.84	= 0.03
FELT & BATTENS (NOMINAL)	= 0.11
EQUIV TO INS. 0.21/0.04	= 5.25
PLASTER BOARD CLG 0.013/0.16	= 0.08
'U' VALUE = 0.18 W/sqmK	= 5.65

'U' VALUE ALLOWABLE = 0.18W/sqmK

LOFT INSULATION BETWEEN RAFTERS

VENTED COLD DECK PITCHED ROOF
CELOTEX 100mm BETWEEN & 35mm UNDER
KINGSPAN KOOLTHERM 127mm K7 BETWEEN
& 25mm K18 DRY-LINING BOARD



INNER & OUTER SURFACES	= 0.18
INSULATION 0.135/0.022	= 6.14
PLASTER BOARD CLG 0.013/0.16	= 0.08
'U' VALUE = 0.156 W/sqmK	= 6.4

'U' VALUE ALLOWABLE = 0.18W/sqmK

KEITH SWAIN DESIGN

KEITH SWAIN 01744 885131 07980 555415
swain.keith@sky.com

DRAWING NUMBER	P 13162

PROPOSED DEVELOPMENT

RE-DEVELOPMENT OF LISTED BUILDING

AT

31 LIVERPOOL ROAD
MANCHESTER

SCALES 1 : 50	sht 5