

25. Boilers. Condensing wall mounted boiler to external wall with balanced flue and wire mesh guard if less than 2M above ground level with minimum SEDBUK value 90%. Owner to be provided with operating instructions for the heating and hot water systems. Boiler to be minimum 300mm from any opening and 25mm from any combustible material. All heating and hot water vessels to be fully commissioned to ensure they are operating at maximum efficiency and all controls work as intended. Person carrying out the commissioning must provide a certificate confirming it has been carried out properly to both the client and local authority approval.
26. Electrical work to meet requirements of Part P (electrical safety must be designed, installed, inspected and tested by a person competent to do so). Prior to completion the council should be satisfied that Part P has been complied with. This may require an appropriate S7671 electrical installation certificate to be issued for the work by a person competent to do so (defined as a member of an approved self certification scheme).
27. Timber floor. Joists as noted to galy joists hangers secured to walls. 22mm T&G flooring grade chipboard to joists. Joints filled with PVA adhesive with 10mm perimeter expansion joint. 100mm oversite concrete slab in C25 design mix on 1200g visqueen DPM lapped with DPC on 100mm minimum sand blinded hardcore. Oversite sited at ground level and ensure min 150mm clear air void (unless noted) below. 120mm celotex between joists off chicken wire stapled to joists. 225 x 150 deep air grills at 1.8M c/c to perimeter.
28. Solid base. 75mm c/c cement on 150mm aggregate slab in C20 design mix with 1.1M x 1.4M top up with 25mm concrete and 45mm reinforcement. This slab to 300 x 450mm c/c around door and window openings. 100mm insulation between joists with 170mm across. Sloping roofs to have 100mm Xtratherm XT/PR between rafters with 50mm XT/TL-MF below with 12.5mm plasterboard and skim finish. 25mm continuous eaves vents with fly proof screens.
32. Cavity walls: 102 face brickwork to be agreed with client and 85 cavity with 40mm Xtratherm XT/CW T&G extending, commencing 150mm below the top of the ground floor perimeter. 100mm duxorb blockwork inner leaf and 13mm plaster finish. Stainless steel wall ties at 450mm c/c vertically and 750mm c/c horizontally staggered to alternate courses and at least 300mm c/c around door and window openings. Close cavity head with insulating block or the roof insulation should meet with the wall insulation. 2 leaf fletton brickwork below DPC level with cavity filled with concrete to ground level. Insulation installed to manufacturers specification and taken down below DPC level finishing at the same level as the underside of the floor slab insulation. Cavity wall insulation to be taken up the full extent of the gable walls where applicable. Use insulated cavity closers.
33. Limiting air leakage. Great care must be taken to prevent air leakage including: keeping joints between adjacent materials, components or service penetrations as narrow as possible. Closing vertical ducts at top and bottom. Sealing joints between adjacent materials, components and service penetrations using an appropriate sealer/gap filler for the size of gap and degree of movement expected. Install drylinings with a continuous ribbon of adhesive at perimeters of external walls, openings and service penetrations. Support floor joists on galvanised steel hangers on external walls. Seal between skirting boards and floor boarding or screeds.
36. Walls/gables restrained at all levels via 50x5x1200mm long galv ms straps at 1.5M centres plug and screwed to walls and screwed to underside of at least 3 joists/rafters and secured via nogging pieces.
37. 150mm code 4 lead to all roof and wall abutments
38. Screed and finish to 100mm
39. 150mm code 4 lead to all roof and wall abutments
40. Screed and finish to 100mm
41. 150mm code 4 lead to all roof and wall abutments
42. Screed and finish to 100mm
43. 150mm code 4 lead to all roof and wall abutments
44. Screed and finish to 100mm
45. 150mm code 4 lead to all roof and wall abutments
46. Screed and finish to 100mm
47. 150mm code 4 lead to all roof and wall abutments
48. Screed and finish to 100mm
49. 150mm code 4 lead to all roof and wall abutments
50. Screed and finish to 100mm
51. 150mm code 4 lead to all roof and wall abutments
52. Screed and finish to 100mm
53. 150mm code 4 lead to all roof and wall abutments
54. Screed and finish to 100mm
55. 150mm code 4 lead to all roof and wall abutments
56. Screed and finish to 100mm
57. 150mm code 4 lead to all roof and wall abutments
58. Screed and finish to 100mm
59. 150mm code 4 lead to all roof and wall abutments
60. Screed and finish to 100mm
61. 150mm code 4 lead to all roof and wall abutments
62. Screed and finish to 100mm
63. 150mm code 4 lead to all roof and wall abutments
64. Screed and finish to 100mm
65. 150mm code 4 lead to all roof and wall abutments
66. Screed and finish to 100mm
67. 150mm code 4 lead to all roof and wall abutments
68. Screed and finish to 100mm
69. 150mm code 4 lead to all roof and wall abutments
70. Screed and finish to 100mm
71. 150mm code 4 lead to all roof and wall abutments
72. Screed and finish to 100mm
73. 150mm code 4 lead to all roof and wall abutments
74. Screed and finish to 100mm
75. 150mm code 4 lead to all roof and wall abutments
76. Screed and finish to 100mm
77. 150mm code 4 lead to all roof and wall abutments
78. Screed and finish to 100mm
79. 150mm code 4 lead to all roof and wall abutments
80. Screed and finish to 100mm
81. 150mm code 4 lead to all roof and wall abutments
82. Screed and finish to 100mm
83. 150mm code 4 lead to all roof and wall abutments
84. Screed and finish to 100mm
85. 150mm code 4 lead to all roof and wall abutments
86. Screed and finish to 100mm
87. 150mm code 4 lead to all roof and wall abutments
88. Screed and finish to 100mm
89. 150mm code 4 lead to all roof and wall abutments
90. Screed and finish to 100mm
91. 150mm code 4 lead to all roof and wall abutments
92. Screed and finish to 100mm
93. 150mm code 4 lead to all roof and wall abutments
94. Screed and finish to 100mm
95. 150mm code 4 lead to all roof and wall abutments
96. Screed and finish to 100mm
97. 150mm code 4 lead to all roof and wall abutments
98. Screed and finish to 100mm
99. 150mm code 4 lead to all roof and wall abutments
100. Screed and finish to 100mm

RECEIVED
24 JUL 2015
SUPPORT SERVICES

PROJECT: 27. HILLSIDE ROAD.
RAYLEIGH, ESSEX.

Colin Millard IEng.AMIStruct.E.
Unit 5, Barleylands Craft Centre, Barleylands Road,
Billericay, Essex CM11 2UD
E.Mail: plans@colinmillard.com
01268 274114 | 07958 217061