slopes on 18mm external quality WPB plywood on treated sw firrings laid to a minimum fall of 1:80 fixed to 45 x 195 C24 flat roof joists at 600mm c/s 150mm Celotex XR4000 insulation board laid between joists having 50mm air gap over and Celotex PL4040 with joints sealed as a VCL fixed to underside of these to provide a 'U' value of 0.15W/m²K, and skim with gyproc multi-finish plaster flat roof construction:
Sika Trocal or similar approved single ply membrane laid strictly in accordance the the manufacturers intructions, extended a minimum of 150mm up roof

flat roof construction:
Sika Trocal or similar approved single ply membrane laid strictly in accordance the the manufacturers intructions, extended a minimum of 150mm up roof slopes on 18mm external quality WPB plywood on treated sw firrings laid to a minimum fall of 1: 80 fixed to 45 x 195 C24 flat roof joists at 600mm c/s 150mm Celotex XR4000 insulation board laid between joists having 50mm air gap over and Celotex PL4040 with joints sealed as a VCL fixed to underside of these to provide a 'U' value of 0.15W/m²K, and skim with gyproc multi-finish plaster

9

R. Sexton C.Eng., MICE

NOTE: this drawing is to be read in conjunction with the Engineers Structural Calculations

glidevale FV250 facia ventilator to provide a continuous air gap of 25,000mm²/m white permacell pvc-u soffits & facias 110mm H.R. white u-pvc gutters

65mm dia' white u-pvc RWP's

catnic CG90/100 lintel

provide 30 \times 5mm galv'd lateral restaint straps to both ends of flat roof at max' 1.8m c/s fixed to not less than three rafters with solid noggins between them

white permacell pvc-u soffits & facias 110mm H.R. white u-pvc gutters 65mm dia' white u-pvc RWP's glidevale FV250 facia ventilator to provide a continuous air gap of 25,000mm $^2/m$ finish ceiling with one layer of 12.5mm gyproc plaster board with skim finish insulation +12.5mm plasterboard) on 15mm plaster dabs to provide a "U" value of cavity wall comprising two leafs of 100mm thick Thermalite Shield blocks tied together with Ancon double triangular stainless steel floor joists supported on hangers nailed to 45 x 195 bearers bolted to walls 18mm T & G moisture resistant chipboard flooring with glued joints laid on 45 x 195 (C24) joists at 400mm c/s and having 100mm mineral wool acoustic insulation laid line inner leaf with celotex PL4025 (25mm 900mm horizontal c/s and having a 50m cavity between them insulated with Celotex ties staggered at 450mm vertical c/s and 900mm horizontal c/s and having a 50mm with M10 RAWLOK bolts at 600mm c/s provide 30 x 5mm galv'd lateral restaint straps to both ends of flat roof at max' 1.8m c/s fixed to not less than three rafters with solid noggins between them catnic CG50/100 lintel c/s to provide a net ventilation area of $10,000 \text{mm}^2/\text{m}$ Simpson G5 tile ventilators at 2m beam щī all new beams to be encased 15mm gyproc fireline board a skimmed with multi-finish to provide ½ hr fire resistance beam 'C' beam 'A' catnic CG90/100 linte

cavity wall comprising two leafs of 100mm thick Thermalite Shield blocks tied together with Ancon double triangular stainless steel ties staggered at 450mm vertical c/s and 900mm horizontal c/s and having a 100mm cavity between them insulated with 90mm Celotex Thermaclass Cavity Wall 21 insulation

CW4000 50mm insulation batts

Mrs. Louise Letch

23 Salisbury Avenue, Colchester CO3 3DW

> insulation to be laid on 1200 gauge polythene dpm laid over existing concrete floor 18mm T & G moisture resistant chipboard flooring on 70mm thick celotex GA4000 floor insulation to provide a 'U' value of 0.23W/m²/K concrete trenchfill foundations, GEN3, minimum 450mm wide x 1.0m deep measured below F.G.L. or such depth as may be instructed by the B.C.O.

value of $0.17W/m^2/K$

horizontal c/s and and having a 100mm cavity between them insulated with 90mm Celotex

Thermaclass Cavity Wall 21 insulation to provide a "U"

cavity wall comprising brick outer leaf and 100mm thick Thermalite Sheild block inner leaf tied together with Ancon double triangular stainless steel ties staggered at 450mm vertical c/s and 900mm

finish ceiling with one layer of 12.5mm gyproc plaster board with skim finish

100mm mineral wool acoustic insulation laid between them

18mm T & G moisture resistant chipboard flooring with glued joints laid on 45 x 195 (C24) joists at 400mm c/s and having

to provide a 'U' value of $0.17W/m^2/K$

rockwool acoustic insulation between them and covered both sides with soundblock plasterboard having a mass of $10 \text{kg/m}^2 \& \text{skim}$ 45 \times 95 C24 studs at 600c/s with 65mm Internal Studwork Walls

Section A.A.

scale

BUILDING, CIVIL, & STRUCTURAL ENGINEERING SERVICES SEXTON DESIGN SERVICES Empress 8EX, Avenue, West Mersea, tel & fax 01206 384153 CLIENT

22 NEW ROAD, MISTLEY, CO11 SECTION A.A'

PROJECT

TWO STOREY REAR EXTENSION I 2AG Drawn Scale DRG. No. Date Designed

2156/09 January 2024 GRS GRS 40