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MPROVED EXTERNAL HOUSE WALLS AT GROUND FLOOR (U-value $0.16 \mathrm{w} / \mathrm{m} 2 \mathrm{k}$ ) Strip back walls to stone block face. nstall damp proof membrane 1.1 m up the stone wall to avoid any damp

Form 25 mm clear cavity using short lengths of 25 mm diameter alkathene pipe betwee inner face of stone and new timber frame.

Timberframe panel to consist of Frameshield / Tyvek breather membrane. 9 mm thick ext. grade plywood sheathing. $90 \times 45 \mathrm{~mm}$ treated $\mathrm{w} / \mathrm{w}$ studs at 600 mm max. centres, $90 \times 45 \mathrm{~mm}$ top and bottom runners with $90 \times 45 \mathrm{~mm}$ dwangs between and $90 \times 45 \mathrm{~mm}$ tie rail on top).
nsulation as below -
90 mm FRAMETHERM 35 glasswool insulation between 90 mm studs. 50 mm PIR Kingspan internally.

38 mm service void formed by means of $38 \times$ 45 mm treated timber battens. 12.5 mm thick C plasterboard, screw fixed with taped and filled finish.

