

Important Information

Building Control Service

London Borough of Waltham Forest
Sycamore House,
Walthamstow Town Hall Complex,
Forest Road,
London
E17 4JF



Tel: 0208 496 6154/55

Fax: 0208 496 6122

E-mail: building.control@walthamforest.gov.uk

From January 2007

Dear Valued Customer,

IMPORTANT CHANGES TO THE BUILDING REGULATIONS 2000 REQUIREMENT L: CONSERVATION OF FUEL AND POWER

I would like to take this opportunity to advise you that as from January 2007 all building work in Waltham Forest will be expected to meet the new Building Regulations thermal standards.

This means that insulation levels in all walls, floors and roofs may be higher than previously used and will mean some fundamental changes to the building design; for example in loft conversions, external stud walls will need to be at least 125mm (5 inches) thick instead of the previously accepted 100mm (4 inches).

For your guidance and to help you and your builders to order and use the correct materials and of course to prevent any unnecessary delays, expenditure and problems on site, I have attached an explanatory table that provides alternative ways of achieving the new standards.

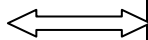
The table uses all of the most commonly available materials and will be suitable in most instances. However we do accept that there are many different materials available and many ways of achieving the same results. In this instance it is strongly recommended that you contact the Building Control Service before buying insulation to check its suitability.

These new standards will be imposed on all new applications, including Building Notice applications that have not yet started. However, any Full Plan applications that have already been approved prior to January 2007 will only be subject to the standards current at the time of that approval.

I hope you find the attached table of assistance.

Kind Regards

**London Borough of Waltham Forest
Building Control Service**

	Description	U value	Celotex 3000 series	Kingspan	Xtratherm	Thermal plasterboard	Glass or Rock fibre
Masonry Walls	200mm Wall in Celcon Solar or similar	0.30	N/A		N/A	55mm Thermal line SUPER	N/A
	215mm Wall in Celcon Solar or similar	0.30	N/A	TW 55 52.5mm thick	N/A	50mm Thermal line SUPER	N/A
	250mm Wall in Celcon Solar or similar	0.30	N/A	TW 55 47.5mm thick	N/A	50mm Thermal line PLUS	N/A
	265mm Wall in Thermalite Turbo or similar	0.30		TW 55 47.5mm thick		45mm Thermal line PLUS	N/A
	250mm Wall in Durox 400	0.30	N/A	TW 55 42.5mm thick	N/A	45mm Thermal line PLUS	N/A
	Brick/ 100mm lightweight block cavity wall	0.30	50mm thick in a 75mm cavity	50mm TW50 in a 75 mm cavity	50mm thick in a 75mm cavity	N/A	80mm cavity batt with 115mm Block
	Block / 100mm lightweight block cavity wall	0.30	35mm thick in a 75mm cavity	35mm TW50 in a 75 mm cavity	35mm thick in a 75mm cavity	N/A	80mm cavity batt
	Brick/ 100mm mediumweight block cavity wall	0.30	45mm thick in a 75mm cavity	45mm TW50 in a 75 mm cavity	45mm thick in a 75 mm cavity	N/A	90mm cavity batt
Stud Walls Dormers etc	125 x 50 timber frame at 400 centres with tile hanging to outside face	0.30	112mm thick between studs OR →	70mm thick between 100 x 50 studs 12mm across inside face	112mm thick between studs ← OR	30mm Thermal line with 75mm Celotex between 100 x 50 studs	N/A
Pitched Roofs and Sloping Ceilings in Loft Conversions	Pitch roof insulation between ceiling joists at 400 centres	0.16	70mm across underside with 150 fibreglass between joists	60mm TP10 underside and 150 fibreglass between joists	60mm across underside with 150 fibreglass between joists	N/A	100mm between and 150mm across joists
	Pitch roof insulation between ceiling joists at 600 centres	0.16	<i>This assumes that storage is required ontop of ceiling →</i>	80mm TP10 underside and 100 fibreglass between joists		N/A	100mm between and 150mm across joists
	Sloping ceiling in new building or extension rafters at 400 centres 50mm airspace over	0.2	50mm between and 75mm across underside	50mm between and 70mm across underside	50mm between and 75mm across underside		N/A
	Sloping ceiling in new building or extension rafters at 600 centres 50mm airspace over	0.2	90mm between and 40mm across underside	75mm between and 45mm across underside	50mm between and 70mm across underside		N/A
Flat Roofs	Warm pitch roof insulation on top of rafters	0.2	100mm made from combinations of thickness.	100mm TP10 ensuring counter battens under tiles	100mm ensuring counter battens under tiles	N/A	N/A
	Flat roof warm deck	0.20	115mm TD3115	96mm TR31 with 20mm TP10 placed between joist to underside TR31		N/A	N/A
	Flat cold deck roof with joists at 400 centres ensuring 50mm vented air space over insulation	0.20	100mm between with 40mm across underside	170mm cut between joists Or 		100mm Kingspan between with 50mm Thermal line SUPER across	
Floors	Timber ground floor joists at 400 centres	0.22	120mm	120mm	120mm	N/A	175mm between joists
	Solid concrete floor	0.22	75mm	75mm	75mm	N/A	125mm polystyrene
	Timber floor at 400 centres over a garage	0.22	125mm	125mm	125mm	N/A	200mm fibreglass