

Building Regulations: TGD Compliance Notes

The Building(Scotland) Regulations 2004		
Regulation	8	Fitness and durability of materials and Workmanship <u>Comment</u> Concrete mass walls formed in a moist curing environment have a service life in excess of 60 years,
Regulation	8(1)	Fitness and durability of materials and Workmanship <u>Comment</u> Concrete mass walls formed in a moist curing environment have a service life in excess of 60 years,
Regulation	9	Building Standards Construction
Standard	1.1,(a, b)	Structure
Standard	1.2	Disproportionate Collapse CP102:1973 Code of practice for the protection of buildings against water from the ground. BS8102: 1990 Code of practice for the protection of structures against water from the ground. BS8110-1 1997 Structural use of concrete – Code of Practice for design and construction tables 3.2 &3.4 BS8110-2:1985 Structural use of Concrete – Code of practice for special circumstances tables 4.6 <u>Comment</u> Walls constructed by ICF formwork have strength properties significantly higher than traditional masonry and timber frame. The walls are formed with 25 Newton Concrete.
Standard	2.2	Separation BS8110-2:1985 Structural use of Concrete – Code of practice for special circumstances tables 2 Technical hand book 2.3 annex 2a, 2b and 2.3 annex 2c 2d
Standard	2.3	Structural Protection BS8110-2:1985 Structural use of Concrete – Code of practice for special circumstances tables 4.6 <u>Comment</u> Within the wall all rebar's are placed with a minimum distance of 25mm from the surface of the concrete wall Plaster Board and fire stops should be included at floor boundaries, openings, see drawing for detail.

Standard	3.4	<p>Moisture From the ground BS8102: 1990 Code of practice for the protection of structures against water from the ground.</p> <p><u>Comment</u> EPS does not permit the transmission of water by capillary action. Walls limit the risk of Moisture ingress from the ground, EPS does not absorb water. When used under ground water proofing materials should be attached to the surface and adequate drainage provided. See drawing for detail.</p>
Standard	3.15	<p>Condensation BS5250:2002 Code of Practice for the control of condensation in Buildings</p> <p><u>Comment</u> EPS has limits the risk of condensation both on the surface and internally with in the structure, being effectively non condensing.</p>
Standard	5.1	<p>Resistance sound transmission to dwellings Type 3 wall Approved Doc E</p> <p><u>Comment</u> The structure of the wall meets the sound transmission requirements achieving the mass requirements of the Standard plus the sound insulation properties of the EPS</p>
Standard	6.2	<p>Building Insulation Envelope BS EN ISO 6946:1997 Building Components and Building elements –Thermal resistance and thermal transmittance –Calculation method And BRE 443: 2002</p> <p><u>Comment</u> U value 0.2 W/m²/K</p>