Building Regulations: TGD Compliance Notes

Building Regulations Northern Ireland 2000 Plus amendments		
Regulation	B2	Fitness of materials and Workmanship. **Comment** Concrete mass walls formed in a moist curing environment have a service life in excess of 60 years,
Regulation	C4	Resistance to ground Moisture and weather. **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 Section 4 **Comment** 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.
Regulation	C5	Condensation **BS5250:2002** Code of Practice for the control of condensation in Buildings **Comment** EPS has limits the risk of condensation both on the surface and internally with in the structure, being effectively non condensing.
Regulation	D1	Stability **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

Regulation	D2	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 Section 4 **Comment** Walls constructed by ICF formwork have strength properties significantly higher than traditional masonry and timber frame. The walls are formed with 25 Newton Concrete.
Regulation	E4	Internal Spread of fire **BS8110-2:1985** Structural use of Concrete – Code of practice for special circumstances Section 4.6 **Comment** 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.
Regulation	F2,F3 & F4	Building Fabric/Insulation Amendments 2006 **Comment** U value 0.2 $W/m^2/K$
Regulation	G2	Separating wall and separating Floors **Type 3 wall Approved Doc E** **Comment** 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