440 x 215 x 100 Roadstone Standard Blocks

440 x 215 x 100 Roadstone Thermal Liteblock

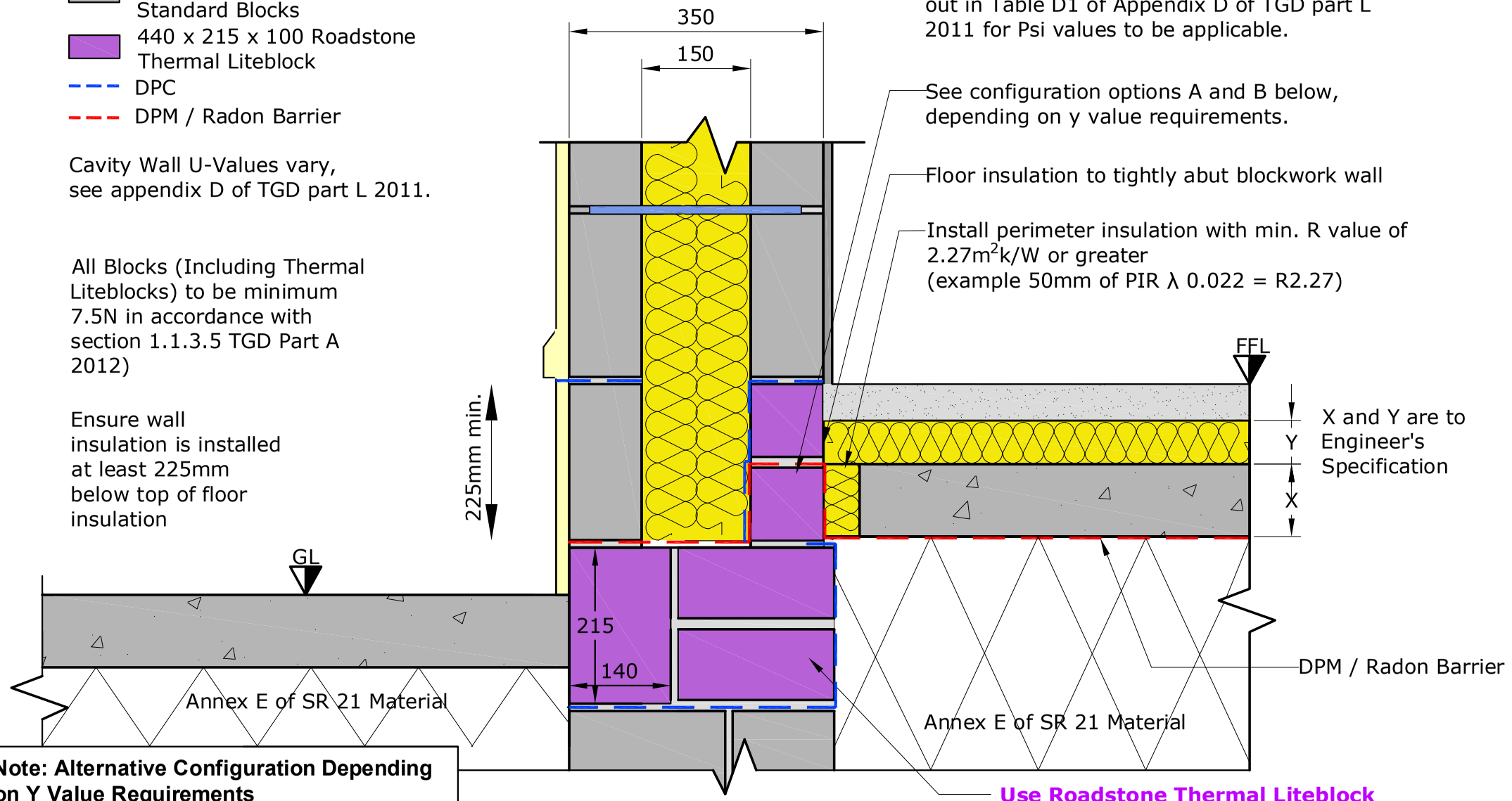
DPC

DPM / Radon Barrier

Cavity Wall U-Values vary, see appendix D of TGD part L 2011.

All Blocks (Including Thermal Liteblocks) to be minimum 7.5N in accordance with section 1.1.3.5 TGD Part A 2012)

Ensure wall insulation is installed at least 225mm below top of floor insulation



Floor U Value varies, must be within Ranges set out in Table D1 of Appendix D of TGD part L 2011 for Psi values to be applicable.

See configuration options A and B below, depending on y value requirements.

Floor insulation to tightly abut blockwork wall

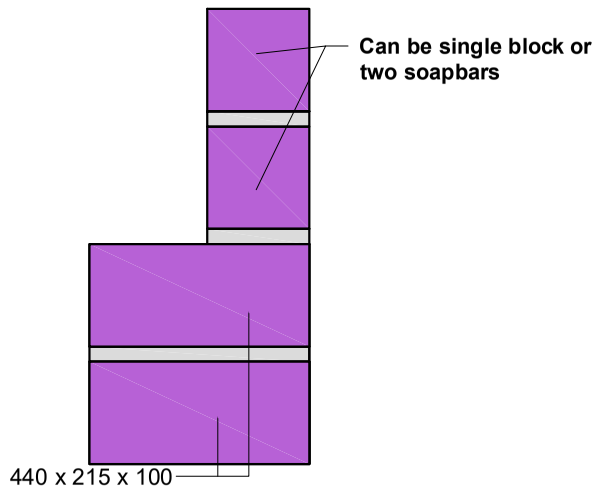
Install perimeter insulation with min. R value of 2.27m²k/W or greater (example 50mm of PIR λ 0.022 = R2.27)

X and Y are to Engineer's Specification

Use Roadstone Thermal Liteblock configuration A or B as advised by Y-Value calculation and Roadstone Technical Support

Note: Alternative Configuration Depending on Y Value Requirements

OPTION B



OPTION A

thermal Liteblock

Roadstone Custom Psi values

U Value Range (W/m²K)	Part L (Ψ)	Roadstone TLB Psi (Ψ) Value	
		Option A	Option B
0.21	0.080	0.036	0.042
0.15	0.042	0.033	0.040

as modelled by NSAI registered Thermal Modellers:

NSAI Agrément

Diarmuid Hynes
Evolusion Innovation ltd.
Registration Number IAB/TM/04
NSAI Approved Thermal Modeller

NSAI Agrément

Andrew Dunne
Evolusion Innovation ltd.
Registration Number IAB/TM/07
NSAI Approved Thermal Modeller

All options pass *f*Rsi assessment, no surface condensation predicted

Options A and B in the 0.15 and 0.21 W/m² K U Value ranges surpass default Psi values and therefore a default y-value of 0.08 can be assumed using these options without a y-value calculation, provided all other details in the building comply with the published ACDs / Roadstone details.

The diagrams, drawings and details included in this brochure are for indicative purposes only. They do not constitute nor should they be relied upon as giving/providing any design detail. They focus on the issues of thermal performance only. Insulation thicknesses of the main building elements have not been provided, as these are dependent on the thermal properties of the materials chosen, as well as on the desired U value. These diagrams, drawings and details illustrate good practice for the design and construction of interfaces solely in connection with thermal performance. The product should be used with due regard to all other requirements imposed by the Building Regulations and advices should be sought from a design professional in connection with the use of this product where required.

REVISION: **A**	DWG. NO.: **DETAIL RS 1.01 b FF**	DATE: **September 2018**	roadstone
SCALE: **NTS**	JUNCTION: **FULL FILL CAVITY WALL/ INSULATION ABOVE SLAB**	TO BE READ IN CONJUNCTION WITH Y-VALUE CALCULATION	