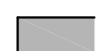



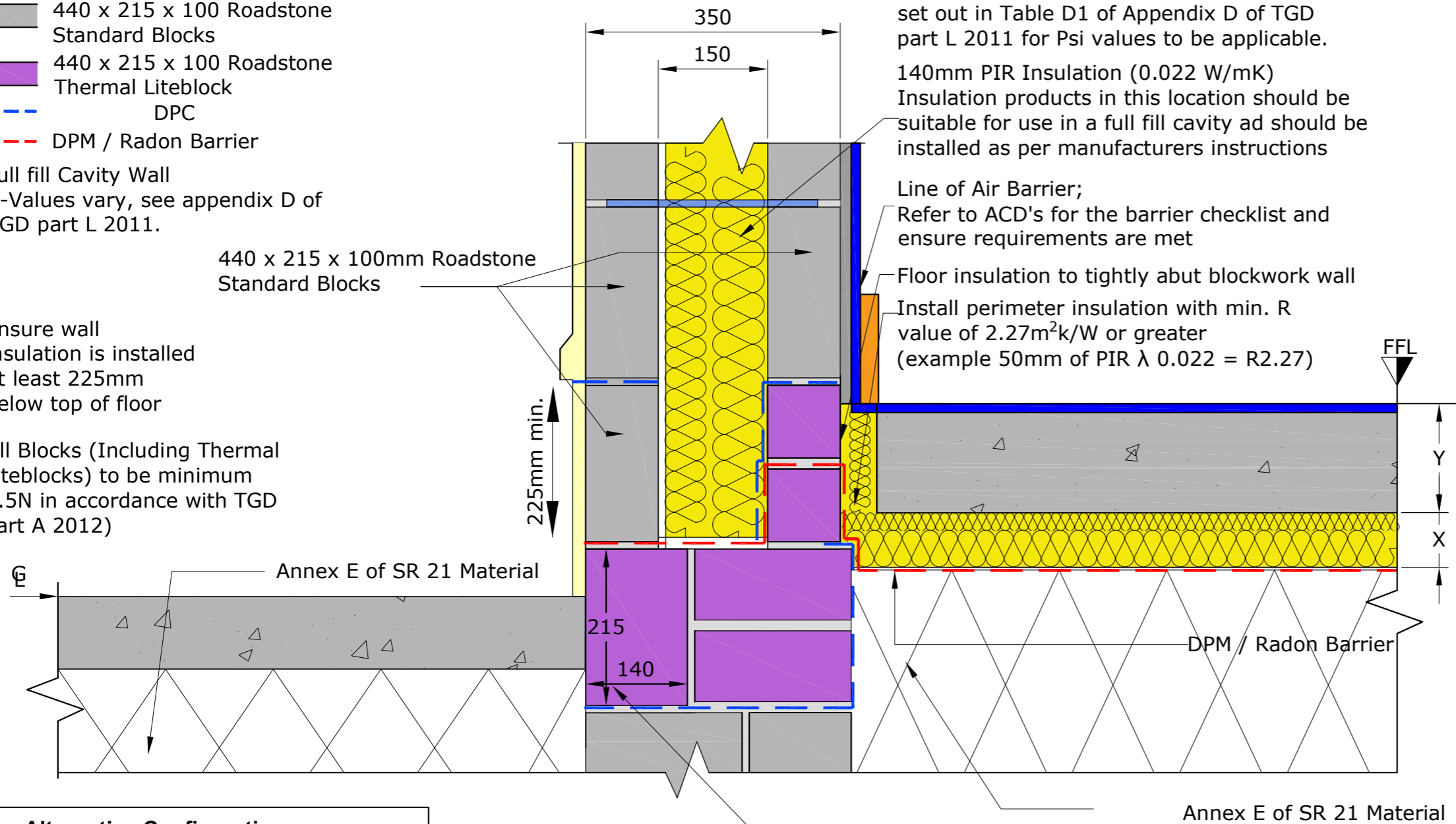


-  440 x 215 x 100 Roadstone Standard Blocks
-  440 x 215 x 100 Roadstone Thermal Liteblock
-  DPC
-  DPM / Radon Barrier

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

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

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



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.  
 140mm PIR Insulation (0.022 W/mK)  
 Insulation products in this location should be suitable for use in a full fill cavity and should be installed as per manufacturers instructions



Line of Air Barrier;  
 Refer to ACD's for the barrier checklist and ensure requirements are met  
 Floor insulation to tightly abut blockwork wall  
 Install perimeter insulation with min. R value of 2.27m<sup>2</sup>k/W or greater (example 50mm of PIR λ 0.022 = R2.27)



### Roadstone Custom Psi values

U Value Range (W/m <sup>2</sup> K)	Part L (Ψ)	Roadstone TLB Psi (Ψ) Value	
		Option A	Option B
0.18	0.070	0.048	0.054
0.15	0.061	0.047	0.053

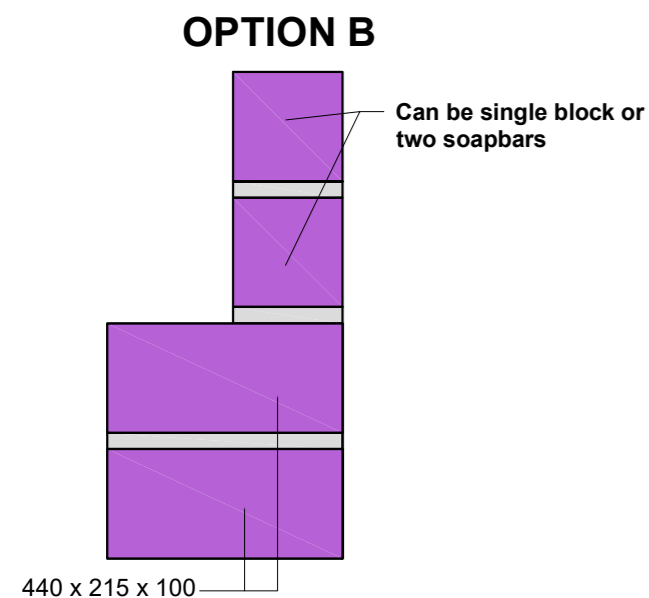
As modelled by NSAI registered Thermal Modellers:

 <b>NSAI</b> Agrément	 <b>NSAI</b> Agrément
Andrew Dunne Evolusion Innovation Ltd. Registration Number IAB/TM/07 NSAI Approved Thermal Modeller	Robert Kelly Evolusion Innovation Ltd Registration Number IAB/TM/24 NSAI Approved Thermal Modeller

All options pass fRsi assessment, no surface condensation predicted

Options A and B in the 0.15 and 0.18 W/m<sup>2</sup> 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.

#### Note: Alternative Configuration Depending on Y Value Requirements



#### OPTION A

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

X and Y are to Engineer's Specification

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: D

DWG. NO.: DETAIL RS 1.02b FF

DATE: APRIL 2020

SCALE: NTS

JUNCTION: FULL FILL CAVITY WALL/ INSULATION BELOW SLAB WITH ADDITIONAL PERIMETER INSULATION

TO BE READ IN CONJUNCTION WITH Y-VALUE CALCULATION

