Roof build-up: To Structural Engineers Specifacitons.
Insulation Depth Varies, U values to be achieved as per Appendix D of TGD part L in order for Psi value to be valid.

When using a Truss Roof, the Truss should be designed to have a bearing point on each leaf of the external cavity wall, to structural Engineer and Roof designers details.

440 x 215 x 100 Roadstone Standard Blocks

440 x 215 x 100 Roadstone Thermal Liteblock

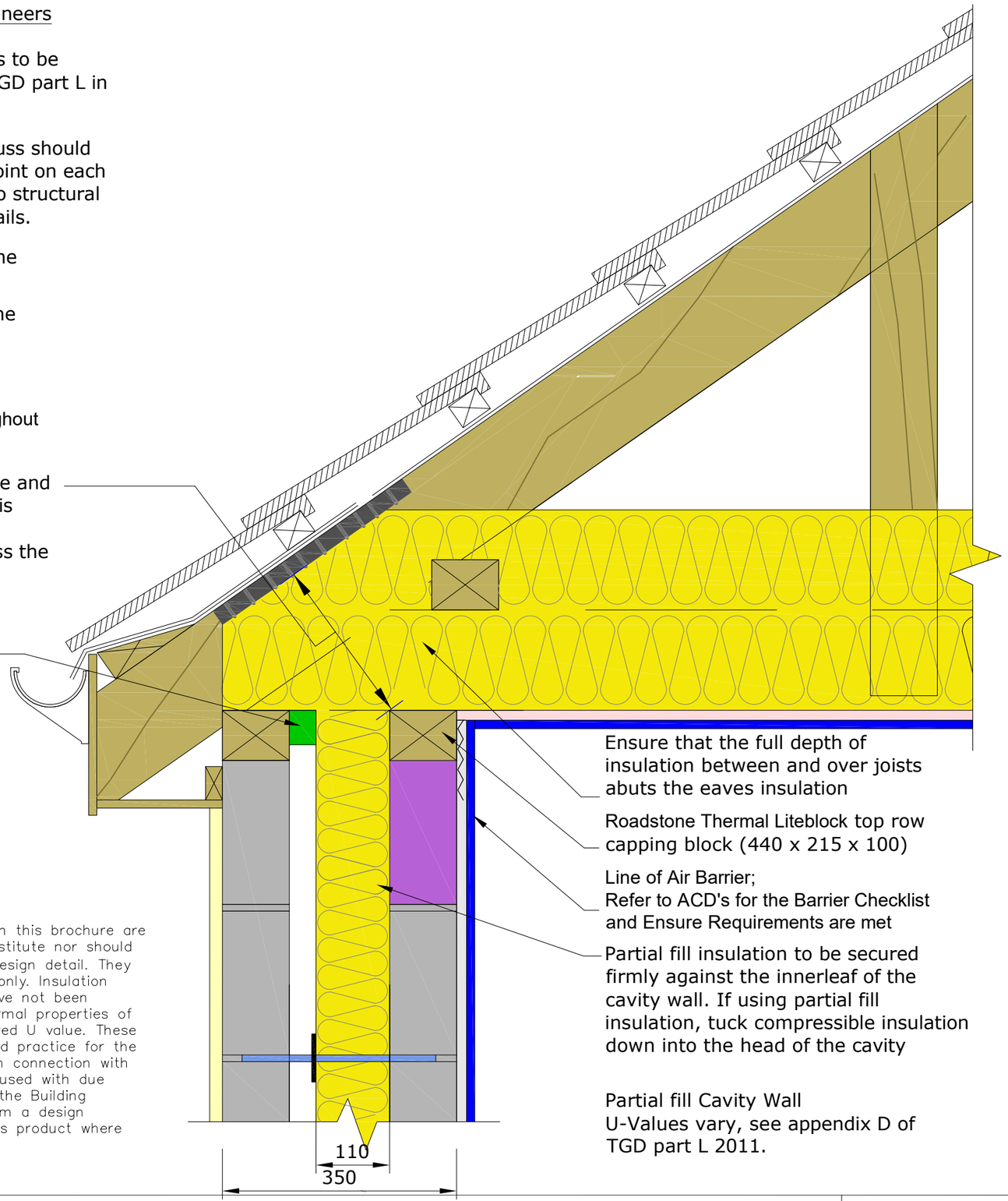
Expanded Metal

Ensure continuity of insulation throughout junction

Ensure gap between the wallplate and the proprietary eaves ventilator is completely filled with insulation having a minimum R-value across the insulation of 3.36 m²K/W

Cavity closer with min R of 1.714 m^2K/W

Ensure ventilation to roof space is maintained, as required by current building regulations for ventilated attic spaces.



Ensure that the full depth of insulation between and over joists abuts the eaves insulation

Roadstone Thermal Liteblock top row capping block (440 x 215 x 100)

Line of Air Barrier;
Refer to ACD's for the Barrier Checklist and Ensure Requirements are met

Partial fill insulation to be secured firmly against the innerleaf of the cavity wall. If using partial fill insulation, tuck compressible insulation down into the head of the cavity

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

thermal Liteblock

Roadstone Custom Psi values

U Value Range (W/m^2K)	Part L (Ψ)	Roadtone TLB Psi (Ψ) Value
0.18	0.049	0.031

As modelled by NSAI registered Thermal Modellers:

NSAI Agrément

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

NSAI Agrément

Robert Kelly
Evolusion Innovation Ltd
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All options pass *f*Rsi assessment, no surface condensation predicted

*Note:
The 0.18 U Value Range model surpasses the default Psi value and therefore a default y-value of 0.08 can be assumed using this option without a y-value calculation, provided all other details in the building comply with the published ACDs / Roadstone details.

REVISION: **D**	DWG. NO.: **DETAIL RS 1.09a**	DATE: **APRIL 2020**	roadstone A CRH COMPANY
SCALE: **NTS**	JUNCTION: **PARTIAL FILL CAVITY WALL/ ROOF INSULATED AT CEILING REGULAR SIZE THERMAL LITEBLOCK**	TO BE READ IN CONJUNCTION WITH Y-VALUE CALCULATION	