

FACT SHEET



THERMAL PERFORMANCE

WALL TYPES AND WALL INSULATION

WALLS DO MORE THAN JUST HOLD THE ROOF UP – THEY PLAY A CRITICAL ROLE IN THE THERMAL PERFORMANCE OF A HOME. FROM A SUSTAINABILITY PERSPECTIVE, IT IS ALSO IMPORTANT TO CONSIDER THE EMBODIED ENERGY CONTENT OF WALLING MATERIALS – THAT IS, THE AMOUNT OF ENERGY REQUIRED TO MANUFACTURE AND BUILD THEM.

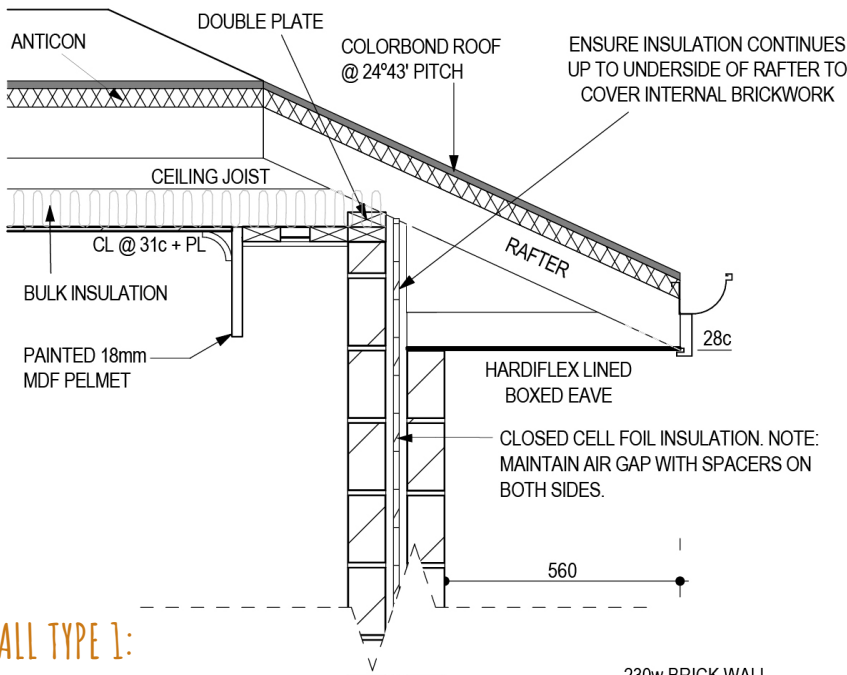
In our build, we've used a combination of wall types in order to maximise the best properties of each, including double brick (with closed cell foil insulation in the cavity) where we needed high thermal mass combined with sound insulation (highest embodied energy); stud walling with both bulk and closed cell foil insulation where mass isn't required (lowest embodied energy); and reverse brick veneer on the exposed east and west sides of the house where we wanted the brick mass internally and lighter weight, low mass cladding externally, plus maximum insulation opportunities in between.

Installing wall insulation correctly is critical for good thermal performance. The following drawings illustrate how we've done it at Josh's House to help achieve a 10 Star NaTHERS rating. For more information on where we've used the various wall types, refer to the house plans on our website.



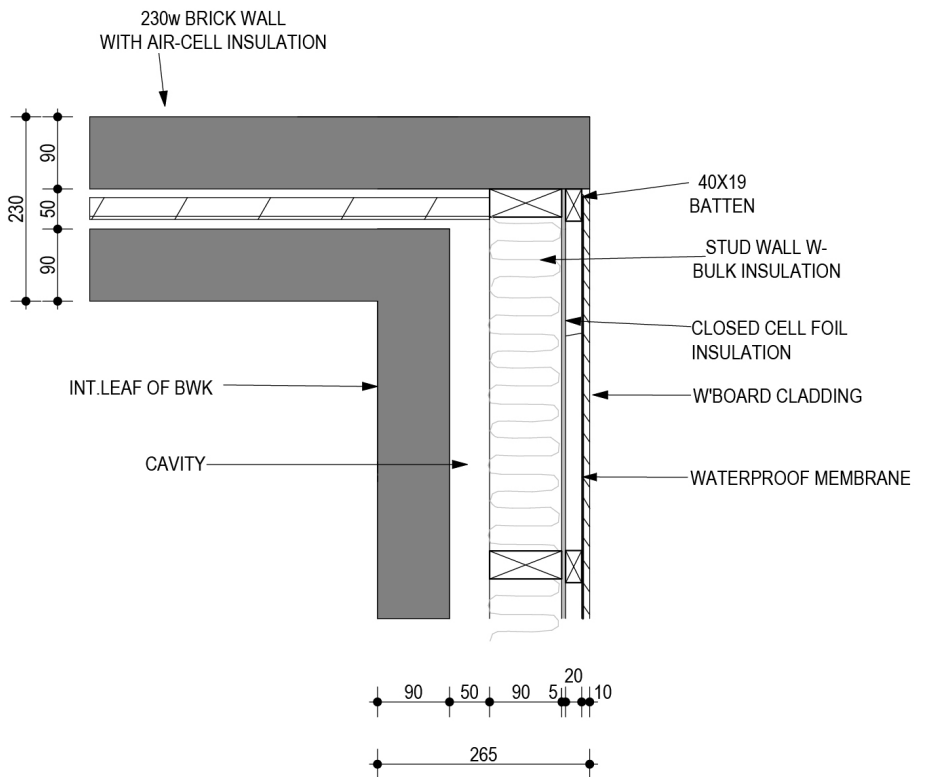
MORE INFO

Your Home Design Guide
www.yourhome.gov.au



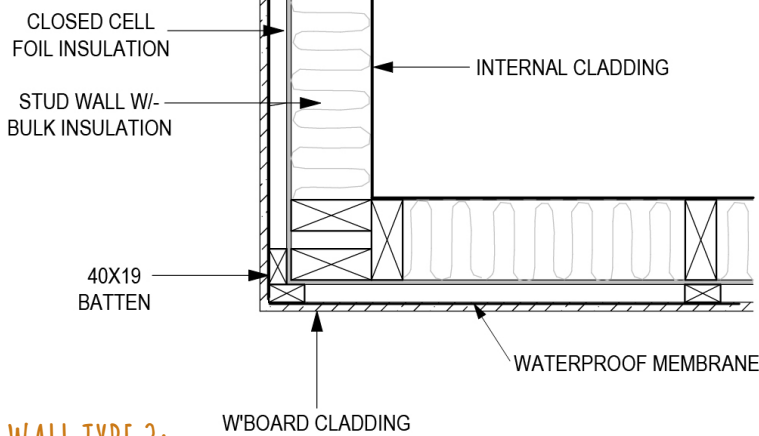
WALL TYPE 1:

DOUBLE BRICK WITH INSULATED CAVITY



WALL TYPE 2:

REVERSE BRICK VENEER



WALL TYPE 3:

STUD WALL WITH INSULATION

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