



fireshield

RENDER & INSULATION

Your Ultimate **Insulation** Product

HELPING INSULATE BRICK VENEER HOMES TO A R VALUE OF R.5

BRICK VENEER HOMES



Brick veneer wall construction techniques became popular in the 1960,s with the arrival of a new light weight internal plaster board, this made for an easier and quicker way to construct a home, but most homes had

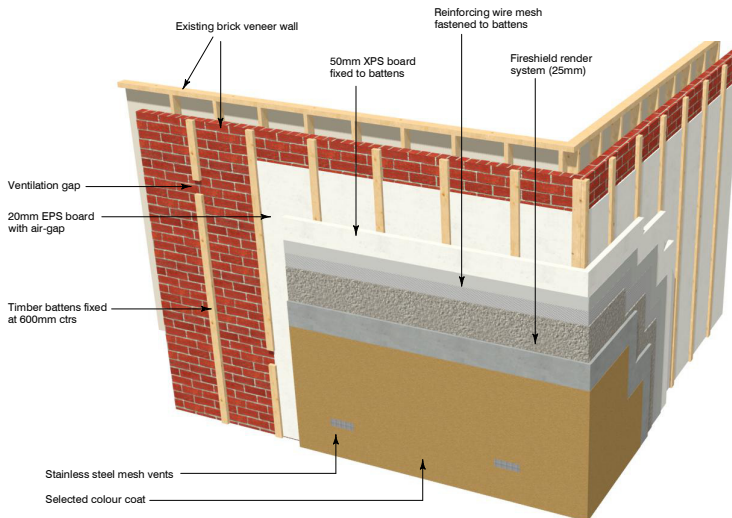
no wall insulation making them very hot in the summer and cold in the winter. The brick skin on the outside of the veneer heats up in the summer and radiates heat late into the evening while in the winter they stay cold and absorb the heat from the house All products have an energy efficiency rating or R value. The recommended minimum R value for wall insulation is R1.5 However, going above the minimum standards to R2 .5 will result in greater comfort and energy savings in your renovated home. (sustainability. Vic.gov.au)

By installing the FIRESHIELD RETROFIT SYSTEM to the external walls of a brick veneer home with a thermal resistance of just of R 0.56 is improved by 4.5 times to R2.56. As FIRESHIELD RETROFIT SYSTEMS is added externally, potential remains to add further insulation internally if walls were relined. In this case a total wall R value of R5 could be achieved.

An added thermal benefit of retrofitting the Fireshield system to existing brick veneer walls is the potential to thermally isolate the mass component of the brick veneer wall from the outside air temperature and radiant heat from the sun. By positioning the thermal mass inside the insulation layer, the existing bricks would have a stabilizing effect on internal room temperatures in a similar way to reverse brick veneer. The change in performance would be most noticeable if the existing walls are un-insulated. On north and west facing walls better thermal comfort would be noticeable in summer because the bricks would not heat up and re-radiate heat into adjacent rooms on hot nights - a common problem with older un-insulated brick veneer homes. Any heat that is conducted through the render and EPS (polystyrene board) would be vented externally through the new cavity and installed wall vents. As well as insulating the home the Fireshield Retrofit system covers all the cracks and other defects that accumulate over time.



INSULATED AND RENDERED WALL DETAIL FOR EXISTING BRICK VENEER DWELLINGS



FOR MORE INFORMATION

Noel 0417 369 659 | info@fireshieldsystems.com.au | www.fireshieldsystems.com.au