

FABRIC & SERVICES FOR BUILDINGS BEING MODELLED FOR WELSH BUILDING REGULATIONS PART L2A

Building	Floor	Roof	Walls	Glazing	Space Heating	DHW	Cooling	Ventilation
Primary School	Concrete ground floor incorporating insulation	Profiled steel sheet with polyurethane insulation	Brick/blockwork cavity wall with insulation	Double glazed, timber framed windows & rooflights, insulated doors with double glazing	Gas boiler + rads	Stand alone gas-fired water heater	None	Natural ventilation + toilet extracts
Hotel	Concrete ground floor incorporating insulation	Timber pitched roof with tiles on battens, underlay and mineral wool insulation	Brick/blockwork cavity wall with insulation	Double glazed, timber framed windows & rooflights, insulated doors with double glazing	Gas boiler + rads	Stand alone gas-fired water heater	None	Natural ventilation + toilet extracts
Retail	Concrete ground floor incorporating insulation	Steel pitched roof with tiles on battens and insulation	Brick/blockwork cavity wall with insulation	Double glazed, timber framed windows & rooflights, insulated doors with double glazing	Electric VRF/multi-split system	Small electric point of use heaters	Yes - from VRF/multi-split system	Mechanical ventilation - small AHUs
Community Hospital	Concrete ground floor incorporating insulation	Warm flat roof	Brick/blockwork cavity wall with insulation	Double glazed, timber framed windows & rooflights, insulated doors with double glazing	Gas boiler with low surface temperature (LST) rads	Stand alone gas-fire water heater	Chiller linked to AHU to ensure air =< 20degC	Central AHU
Shallow Office NV	Concrete ground floor incorporating insulation	Polymer membrane system, insitu/precast concrete, mineral wool insulation	Brick/blockwork cavity wall with insulation	Double glazed, timber framed windows & rooflights, insulated doors with double glazing	Gas boiler + rads	Electric point of use heaters	None	Natural ventilation
Care Home	Concrete ground floor incorporating insulation	Timber pitched roof with tiles on battens, underlay and mineral wool insulation	Brick/blockwork cavity wall with insulation	Double glazed, timber framed windows & rooflights, insulated doors with double glazing	Gas-fired boiler + rads	Stand alone gas-fired water heater	None	Natural ventilation + toilet extracts
Warehouse	Concrete ground floor incorporating insulation	Profiled steel sheet with polyurethane insulation	Profiled metal cladding system with insulation	Double glazed, timber framed windows & rooflights, insulated doors with double glazing	Gas-fired radiant heating	Point of use electric if any	None	Electric wall fans