

Summary of As-Built U-values

Envelope	Existing U-value: Refurbished Buildings Only (W/m2K)	As-built U-value (W/m2K)	Description
Existing Medburn Building external wall	1.40	0.86	Single leaf brick upgraded with insulated plasterboard lining
Existing Salisbury Building external wall	0.35	0.35	Existing cavity wall construction retained
Existing Sports Block external wall	0.35	0.35	Existing cavity wall construction retained
New build external wall		0.25	Insulated render/glazed blockwork/timber rain screen exterior finish with plasterboard lined insulated cavity
Existing Medburn Building external floor	0.25	0.25	Ground bearing concrete slab
Existing Salisbury Building external floor	0.25	0.25	Ground bearing concrete slab
Existing Sports Block external floor	0.25	0.25	Ground bearing concrete slab
New build external floor		0.20	Insulated ground bearing concrete slab
Existing Medburn Building external Roof	1.85	0.19	Tiled pitched roof upgraded with insulation at ceiling level
Existing Salisbury Building external roof	0.25	0.25	Existing insulated concrete construction retained with exposed soffit
Existing Sports Block external roof	0.25	0.25	Existing insulated concrete construction retained with exposed soffit
New build external roof		0.15	Insulated concrete roof with exposed soffit
Existing Medburn Building external glazing	5.14	1.6	Timber framed single glazing upgraded to timber framed low-emissivity solar control double glazing. Solar transmittance 0.4, light transmittance 0.66
Existing Salisbury Building external glazing	2.2	2.2	Existing low-emissivity double glazing retained. Solar transmittance 0.64, light transmittance 0.76
Existing Sports block Building external glazing	2.2	2.2	Existing low-emissivity double glazing retained. Solar transmittance 0.64, light transmittance 0.76
New build composite windows, curtain walling and glazed entrance doors		1.8	Timber/metal framed low-emissivity double glazing. Northwest, North and Northeast orientations, other orientations if heavily shaded: solar transmittance 0.64, light transmittance 0.76. East, Southeast, South, Southwest and West orientations: solar transmittance 0.40, light transmittance 0.66.
New build roof lights		1.49	Timber/metal framed low-emissivity solar control double glazing. solar transmittance 0.32, light transmittance 0.60.