

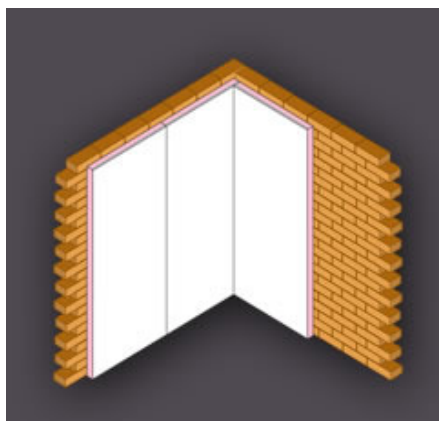
## ARC Thermal and Acoustic Plasterboard Laminates

Designed to provide an insulated internal lining for walls and ceilings, enhanced thermal and acoustic insulation is provided to satisfy the ever increasing requirements in both new build and refurbishment projects.

ARC Thermal Plasterboard Laminates are available incorporating tapered edge, square edge and foil faced plasterboard, incorporating a variety of insulations offering varying degrees of thermal and acoustic efficiency for both adhesive and mechanical fixing methods.

### Fitting Instructions

ARC Plasterboard Laminates can be adhered to existing walls using suitable bonding compounds / filling adhesives, manufacturer's guidelines must be followed. They can also be fixed utilizing metal frame work or timber framing and battens.



### Technical Data

#### ARC Plasterboard Laminates:

Plasterboard length 2400mm x 1200mm wide x 12.5mm thick.

Plasterboard Conductivity 0.25 W/mk

Insulation: Extruded Polystyrene Conductivity 0.029 W/mk

Expanded Polystyrene Conductivity 0.038 W/mk

Polyurethane Conductivity 0.024 W/mk

Phenolic Conductivity 0.019 W/mk

Overall Board Thickness mm	Insulation Thickness mm	Extruded Polystyrene Thermal Resistance R Value m <sup>2</sup> K/W	Expanded Polystyrene Thermal Resistance R Value m <sup>2</sup> K/W	Polyurethane Thermal Resistance R Value m <sup>2</sup> K/W	Phenolic Thermal Resistance R Value m <sup>2</sup> K/W
29.5	17	0.636	0.497	0.758	0.945
32.5	20	0.740	0.576	0.883	1.103
42.5	30	1.084	0.839	1.300	1.629
52.5	40	1.429	1.103	1.717	2.155
62.5	50	1.774	1.366	2.133	2.682
72.5	60	2.119	1.629	2.550	2.550
87.5	75	2.636	2.024	3.175	3.997
92.5	80	2.809	2.155	3.383	4.261
102.5	90	3.153	2.418	3.800	4.787
112.5	100	3.498	2.682	2.217	5.313

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