

Appendix 2

Permeance of Building Materials to Water Vapor

Material	Permeance (perm) grain/ft ² hr (in.Hg)
Aluminum foil (1 mil)	0.00
Aluminum foil (0.35 mil)	0.05
Polyethylene (6 mil)	0.06
Polyethylene (4 mil)	0.08
Polyethylene (2 mil)	0.16
Asphalt kraft paper facing	0.30
Unplasticized PVC (2 mil)	0.68
Asphalt paint on plywood (2 coats)	0.40
Aluminum paint (2 coats)	0.30–0.50
Latex VDR paint (1 coat)	0.45
White lead/oil paint on wood siding (3 coats)	0.30–0.99
White lead/zinc oxide/oil paint on wood (3 coats)	0.88
Extruded polystyrene (1 in.)	0.40–1.60
Polyurethane (1 in.)	1.20
25 mm (1 in.) expanded polystyrene	2.00–5.79
100 mm (4 in.) rock wool	28.97
100 mm (4 in.) cellulose fibre	28.97
100 mm (4 in.) glass fibre wool	28.97
100 mm (4 in.) glazed tile masonry	0.10–0.16
3 mm (1/8 in.) cement board with oil paint	0.30–0.50
19 mm (3/4 in.) board (wood)	0.30–4.03
Plywood, exterior glue, Douglas-fir (1/4 in.)	0.70
Brick (4 in.)	0.80
Concrete block (8 in.)	2.38
Tar paper (15 lb.)	4.00
Hardboard (standard) (1/8 in.)	10.96
Spunbonded polypropylene	15.37
Sheathing paper, asphalt saturated and coated	20.35
Gypsum drywall	49.74
Tyvek® HomeWrap®	77
CommercialWrap®	28