

Amvic™ ICF Fastener Load Testing

The maximum capacity supported by the ICF webs can vary depending on the type screw and application. Alleguard has tested several typical configurations, see table below. For applications that require a minimum pull-out strength such as for masonry veneer ties, the Withdrawal Fastener Loads are the applicable values. For shelving, cabinetry and

other vertical gravity loads, Lateral Shear Fastener Loads should be used. It is important to note that fastening to ICF webs should always be done with screws and not nails. Nails do not provide the necessary loading requirements and are likely to shatter the web greatly reducing its loading capacity.

	Maximum Lateral Shear Fastener Load	Maximum Withdrawal Fastener Load
	ASTM D1761	ASTM D1761
	lbs (kg)	lbs (kg)
#6 Fine thread drywall screw	39.9 (18.1)	22.0 (9.98)
#6 Coarse thread drywall screw	43.4 (19.7)	24.1 (10.9)
#8 Coarse thread drywall screw	63.1 (28.6)	22.7 (10.3)
#8 Deck screw	52.0 (23.6)	25.7 (11.7)

