


FERO System 		Free Play mm (in)	Deflection @0.45kN (100 lbs) Load mm (in)		Tie Design Capacity		
					CAN3-A370-04	A370-2005	
			Working Stress		Working Stress	Limit States	
			w/o free play	w/ free play	Safe Working Load	Safe Working Load	Factored Resistance
				kN (lbs)	kN (lbs)	kN (lbs)	
Block Shear Connector		0.80 (0.031")	0.15 (0.006")	0.95 (0.037")	1.65 (371 lbs)	1.86 (417 lbs)	3.35 (750 lbs)
Stud Shear Connector		0.80 (0.031")	0.05 (0.002")	0.85 (0.033")	1.29 (290 lbs)	1.45 (325 lbs)	2.61 (585 lbs)
Side Mounting Rap-Tie		0.80 (0.031")	0.11 (0.043")	0.91 (0.036")	1.55 (348 lbs)	1.74 (390 lbs)	3.13 (701 lbs)
Rap-Tie	Mounted Directly to Steel Stud	0.80 (0.031")	0.47 (0.019")	1.27 (0.05")	0.76 (170 lbs)	0.86 (193 lbs)	1.54 (345 lbs)
	Mounted on Protected Drywall	0.80 (0.031")	0.50 (0.02")	1.30 (0.051")	0.67 (150 lbs)	0.75 (168 lbs)	1.36 (305 lbs)
Slotted Block Tie (Type I)		1.04 (0.041")	0.07 (0.003")	1.11 (0.044")	0.76 (170 lbs)	0.85 (190 lbs)	1.54 (345 lbs)
Slotted Block Tie (Type II)		0.5 (0.02")	0.10 (0.004")	0.60 (0.024")	1.27 (284 lbs)	1.43 (320 lbs)	2.57 (576 lbs)
Slotted Stud tie (Type I)		1.04 (0.041")	0.07 (0.003")	1.11 (0.044")	0.76 (170 lbs)	0.85 (190 lbs)	1.54 (345 lbs)
Slotted Stud Tie (Type II)		0.5 (0.02")	0.10 (0.004")	0.60 (0.024")	1.27 (284 lbs)	1.43 (320 lbs)	2.57 (576 lbs)
Slotted Side Mounting Rap-Tie		1.04 (0.041")	0.16 (0.0063")	1.2 (0.047")	1.07 (240 lbs)	1.20 (269 lbs)	2.16 (484 lbs)
Slotted Rap-Tie	Mounted Directly To Steel Stud	1.04 (0.041")	0.63 (0.025")	1.67 (0.066")	0.76 (170 lbs)	0.86 (193 lbs)	1.54 (345 lbs)
	Mounted on Protected Drywall	1.04 (0.041")	0.66 (0.026")	1.7 (0.067")	0.67 (150 lbs)	0.75 (168 lbs)	1.36 (305 lbs)
Adjustable BVTs		0.74 (0.029")	0.45 (0.018")	1.19 (0.047")	0.67 (150 lbs)	0.75 (168 lbs)	1.36 (305 lbs)
Pac-Tie	Mounted Directly to Steel Stud	0.74 (0.029")	0.45 (0.018")	1.19 (0.047")	0.67 (150 lbs)	0.75 (168 lbs)	1.36 (305 lbs)
	Mounted on Protected Drywall	0.74 (0.029")	1.13 (0.044")	1.87 (0.074")	0.67 (150 lbs)	0.75 (168 lbs)	1.36 (305 lbs)
Cat-Tie		0.74 (0.029")	0.42 (0.017")	1.16 (0.046")	1.50 (336 lbs)	2.25 (504 lbs)	4.05 (907 lbs)
BVTs		0.00	0.95 (0.037")	0.95 (0.037")	0.36 (81 lbs)	0.40 (90 lbs)	0.73 (164 lbs)
Lateral Tie Clip		N/A	1.01 (0.04")	N/A	0.73 (164 lbs)	0.81 (181 lbs)	1.47 (329 lbs)

MASONRY TIE DESIGN & SELECTION - CANADA