

**Table 32 – Hilti KWIK HUS-EZ and KWIK HUS-EZ P allowable loads installed in top-of-grout-filled concrete masonry walls or horizontal members of wall openings<sup>1,2,3</sup>**

Nominal anchor diameter in.	Minimum embedment depth in.	Edge distance <sup>4</sup> in.	Critical spacing <sup>5</sup> in.	Minimum end distance <sup>6</sup> in.	Tension lb	Shear lb	
						Load direction	
						Parallel to edge of masonry wall	Perpendicular to edge of masonry wall
1/4	1 5/8	1 1/2	4	4	205	180	135
		3 3/4			205	275	275
	2 1/2	1 1/2			355	345	155
		3 3/4			390	415	330
3/8	1 5/8	1 1/2	6	6	245	345	175
		3 3/4			245	345	345
	3 1/4	1 1/2			465	490	200
		3 3/4			540	800	625
1/2	2 1/4	1 3/4	8	8	390	460	200
		3 3/4			610	525	500
	4 1/4	1 3/4			540	885	245
		3 3/4			750	1275	550
5/8	5	1 3/4	10	10	975	930	245
		3 3/4			975	2190	630
3/4	6 1/4	3 3/4	12	12	975	2430	630

3.3.6

**Table 33 – Hilti KWIK HUS-EZ and KWIK HUS-EZ P allowable loads installed in end-of-wall or vertical members of wall openings<sup>1,2,3</sup>**

Nominal anchor diameter in.	Minimum embedment depth in.	Edge distance <sup>4</sup> in.	Critical spacing <sup>5</sup> in.	Minimum end distance <sup>6</sup> in.	Tension lb	Shear lb	
						Load direction	
						Parallel to edge of masonry wall	Perpendicular to edge of masonry wall
1/4	1 5/8	1 1/2	4	4	360	525	205
		3 3/4			380	595	585
	2 1/2	1 1/2			590	610	225
		3 3/4			755	635	585
3/8	1 5/8	1 1/2	6	6	355	725	215
		3 3/4			465	1010	825
	3 1/4	1 1/2			565	875	240
		3 3/4			1020	1195	1050
1/2	2 1/4	1 3/4	8	8	500	855	260
		3 3/4			525	1100	1050
	4 1/4	1 3/4			650	925	280
		3 3/4			1150	1240	1050
5/8	5	3 3/4	10	10	1605	2215	1050
3/4	6 1/4	3 3/4	12	12	1865	2550	1050

- All values are for anchors installed in fully grouted concrete masonry with minimum masonry prism strength of 1,500 psi. Concrete masonry units may be lightweight, medium-weight or normal-weight conforming to ASTM C90. Allowable loads are calculated using safety factor of 5.
- See figure 6 and 7 for allowable anchor installation locations on the top of grout-filled concrete masonry walls. Anchors may not be installed within one inch of a vertical joint. See figure 7 for anchor installation locations in end-of-wall and vertical members of wall openings.
- Anchors may not be installed within one inch in any direction of a vertical joint.
- For load values at edge distances between listed values linear interpolation is permitted.
- Critical spacing equals minimum spacing.
- Minimum end distance applicable to top-of-wall and end-of-wall and does not apply for wall openings such as windows.