

TABLE 5—ALLOWABLE SHEAR LOADS FOR KH-EZ, KH-EZ P, KH-EZ PM, KH-EZ PL, KH-EZ C AND KH-EZ CRC INSTALLED IN THE FACE OF GROUT-FILLED MASONRY WALLS (POUNDS)^{1,2,6}

NOMINAL ANCHOR DIAMETER (INCHES)	MINIMUM EMBEDMENT (INCHES) ²	ALLOWABLE SHEAR LOADS AT S _{CR} AND C _{CR} ⁵	SPACING			EDGE DISTANCE			
			CRITICAL S _{CR} (INCHES)	MINIMUM S _{MIN} (INCHES)	LOAD REDUCTION FACTOR ⁴	CRITICAL C _{CR} (INCHES)	MINIMUM C _{MIN} (INCHES)	LOAD DIRECTION PERPENDICULAR TO EDGE	LOAD DIRECTION PARALLEL TO EDGE
1/4	1 1/8	532	4	4	1.00	4	4	1.00	1.00
	2 1/2	650						1.00	
3/8	1 1/8	912	6	4	0.94	6	4	0.61	1.00
	3 1/4	952						0.70	
1/2	2 1/4	1476	8	4	0.88	8	4	0.50	1.00
	4 1/4	1959						0.40	
5/8	3 1/4	2432	10	4	0.62	10	4	0.36	1.00
	5	2731						0.34	
3/4	4	2432	12	4	0.36	12	4	0.36	1.00
	6 1/4	2731						0.34	

¹Anchors shall be installed in base materials in compliance with Section 3.6 of this report.

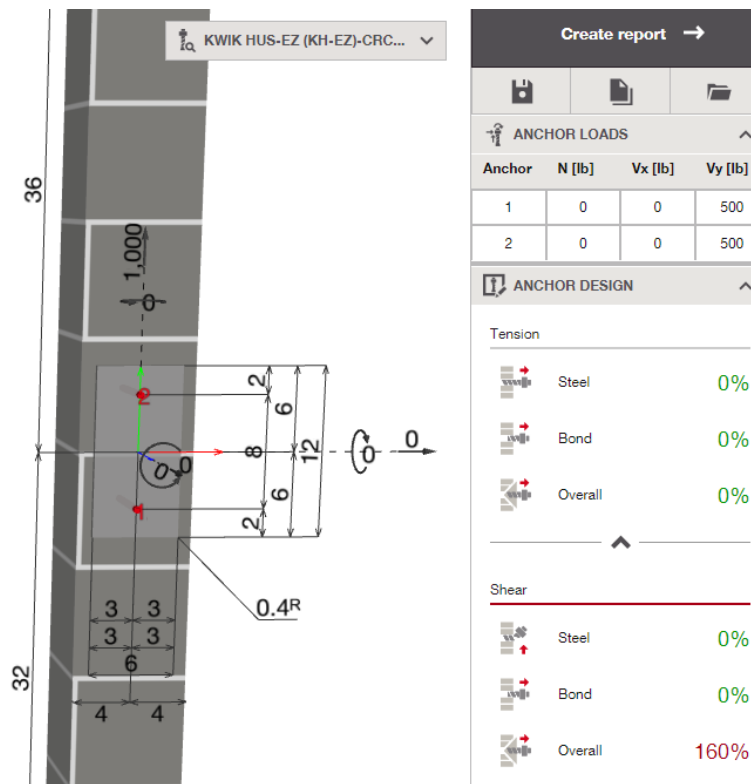
²Embedment depth is measured from the outside surface of the concrete masonry unit.

³Refer to Section 5.4 of this report for modifying allowable loads in this table for anchors resisting short-term loads.

⁴Allowable loads are based on installation at critical spacing and edge distance. Load reduction factors are applicable at the minimum spacing and edge distance. Linear interpolation of reduction factors is allowed for spacings and edge distances between critical and minimum.

⁵Tabulated allowable loads for the IBC/IRC are based on a safety factor of 5.0.

⁶Special inspection must be provided in accordance with Section 4.3 of this report.



4.2 Overall strength perpendicular

$$V_{t,Base,\perp} = \text{ESR Value}$$

refer to ICC-ES ESR-3056

$$V_{t,\perp} = V_{t,Base,\perp} \cdot f_{red,E,\perp} \cdot f_{red,S,\perp} \cdot f_{red,Temp}$$

$$V_{t,\perp} \geq V_{s,\perp}$$

Variables

c _{min} [in.]	c _{cr} [in.]	s _{min} [in.]	s _{cr} [in.]	Temperature [°F]
4.000	8.000	4.000	8.000	68

Results

V _{t,⊥} [lb]	V _{t,Base,⊥} [lb]	V _{s,⊥} [lb]	f _{red,E,⊥}	f _{red,S,⊥}	f _{red,Temp}	Utilization β _{V,⊥} [%]
313	1,959	500	0.160	1.000	1.000	160