

CSD/DSD Design Information — Concrete

CSD/DSD Product Data

Size (in.)	Model No.	Head Style/Finish	Drill Bit Diameter (in.)	Quantity	
				Box	Carton
¼ x 1½	CSD25112	Countersunk head – Zinc plated	¼	100	500
¼ x 2	CSD25200			100	500
¼ x 2½	CSD25212			100	500
¼ x 3	CSD25300			100	400
¼ x 3½	CSD25312			100	400
¼ x 4	CSD25400			100	400
¼ x 3	CSD25300MG	Countersunk head – Mechanically galvanized ¹	¼	100	400
¼ x 4	CSD25400MG			100	400
¼ x 3	DSD25300	Duplex head – Zinc plated	¼	100	400

1. Mechanical galvanizing meets ASTM B695, Class 55, Type 1. Intended for some preservative-treated wood sill plate applications. Not for use in other corrosive or outdoor environments. See p. 235 for details.

CSD Allowable Tension and Shear Loads in Normal-Weight Concrete



Size (in.)	Drill Bit Diameter (in.)	Embed. Depth (in.)	Minimum Spacing (in.)	Minimum Edge Distance (in.)	Tension Load (lb.)		Shear Load (lb.)	
					$f'_c \geq 2,000$ psi		$f'_c \geq 2,000$ psi	
					Ultimate Load	Allowable Load	Ultimate Load	Allowable Load
¼	¼	1¼	2½	3	655	165	970	240

DSD Allowable Tension and Shear Loads in Normal-Weight Concrete



Size (in.)	Drill Bit Diameter (in.)	Embed. Depth (in.)	Minimum Spacing (in.)	Minimum Edge Distance (in.)	Concrete Compressive Strength (psi)	Tension Load (lb.)		Shear Load (lb.)	
						Ultimate Load	Allowable Load	Ultimate Load	Allowable Load
¼	¼	1¼	2½	3	2,500	800	200	2,480	620
¼	¼	1¼	2½	3	4,000	1,060	265	2,740	685

*See p. 14 for an explanation of the load table icons.