

MSD/CSD/DSD Split Drive Anchors

The Split Drive anchor is a one piece anchor, with a split-type expansion mechanism on the working end. As the anchor is driven into the hole, the expansion mechanism compresses and exerts force against the walls of the hole. Can be installed in concrete, grout-filled block and stone. Available in mushroom, countersunk and duplex-head styles. The duplex head Split Drive is designed for temporary fastening applications and can be removed using a claw hammer.

Warning for CSD and MSD only: Industry studies show that hardened fasteners can experience performance problems in wet or corrosive environments. Accordingly, use these products in dry, interior and non-corrosive environments only.

MATERIAL: Heat-treated carbon steel

FINISH: Zinc plated and mechanically galvanized

INSTALLATION:

Caution: Oversized holes in the base material will reduce the anchor's load capacity. For CSD and MSD, embedment depths greater than 1½" may cause bending during installation.

- Drill a hole in the base material using a ¼" diameter carbide tipped drill. Drill the hole to the specified embedment depth and blow it clean using compressed air. Alternatively, drill the hole deep enough to accommodate embedment depth and dust from drilling. Overhead installations need not be blown clean.
- Position fixture and insert Split Drive anchor through fixture hole. For CSD and MSD, 3/8" diameter fixture hole is recommended for hard fixtures such as steel. For DSD, 5/16" diameter fixture hole is recommended.
- Drive anchor until head is flush against fixture.



MSD/CSD/DSD Product Data

Size (in.)	Model No.	Head Style/ Finish	Drill Bit Dia. (in.)	Quantity	
				Box	Carton
¼ x 1½	MSD25112	Mushroom Head - Zinc Plated	¼	100	500
¼ x 2	MSD25200			100	500
¼ x 2½	MSD25212			100	500
¼ x 3	MSD25300			100	400
¼ x 3½	MSD25312			100	400
¼ x 4	MSD25400	Countersunk Head - Zinc Plated	¼	100	400
¼ x 1½	CSD25112			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 pressure-treated wood sill plate applications. Not for use in other corrosive or outdoor environments. See page 16 for details.

MSD & CSD Tension and Shear Load Values in Normal-Weight Concrete

Size (in.)	Drill Bit Dia. (in.)	Embed. Depth (in.)	Min. Spacing (in.)	Min. Edge Dist. (in.)	Tension Load (lbs.)		Shear Load (lbs.)	
					f'c ≥ 2000 psi		f'c ≥ 2000 psi	
					Ultimate Load	Allowable Load	Ultimate Load	Allowable Load
¼	¼	1¼	2½	3	655	165	969	240



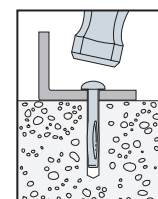
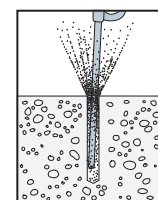
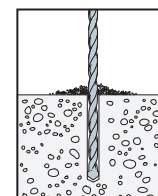
DSD Tension and Shear Load Values in Normal-Weight Concrete

Size (in.)	Drill Bit Dia. (in.)	Embed. Depth (in.)	Min. Spacing (in.)	Min. Edge Dist. (in.)	Concrete Compressive Strength (psi)	Tension Load (lbs.)		Shear Load (lbs.)	
						f'c ≥ 2000 psi		f'c ≥ 2000 psi	
						Ultimate Load	Allowable Load	Ultimate Load	Allowable Load
¼	¼	1¼	2½	3	2500	800	200	2480	620
¼	¼	1¼	2½	3	4000	1060	265	2740	685



*See page 10 for an explanation of the load table icons

Installation Sequence



DSD anchor may be removed with a claw hammer

