

Repair Anchors

Description

DUR-O-WAL has a complete line of quality restoration products that includes a variety of mechanical and friction pinning anchors as well as replacement systems for seismic and non-seismic applications.

Some of the more popular anchors are shown here with brief information.

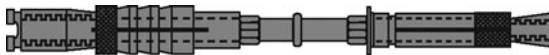
DA5000 Mechanical Anchor

Designed for backing materials of solid concrete, brick, solid CMU and stone



DA5100 Mechanical Anchor

Designed for backing material of brick, hollow CMU, solid CMU, stone, clay tile and precast concrete



DA5300 Mechanical Anchor

Designed for backing material of wood stud, steel stud and wood sheathing



DA508 Dur-O-Flex Friction Pinning Anchor

Designed for variety of backing materials for wall tying applications that typically would use masonry connectors of the light to medium duty variety



Features and Benefits

- Easy to install. The anchor is installed by drilling through either the mortar joint or the brick of the outer wythe and into the backup material, inserting the tie, and locking with setting tool.
- Minimum disturbance. The Dur-O-Wal Repair Anchor leaves only a small hole that can be quickly filled with mortar or caulking and finished.
- Corrosion resistant materials. Every component of the anchor is manufactured from corrosion resistant steel and brass with the exception of the plastic bushing on Structural Steel Anchors.
- Positive mechanical lock. The anchor is locked mechanically by the expansion of the brass shields or threading the shaft into light gauge stud. It does not rely on any chemical bond, plastic expansion or setting.
- No lateral tensile stress applied to structure. The expander does not draw the two wall assemblies together and therefore induces no tensile stress in the wall.
- Quality control. Installation of both backup and facade expanders are independently gauged and activated which provides assurances the anchors are working.

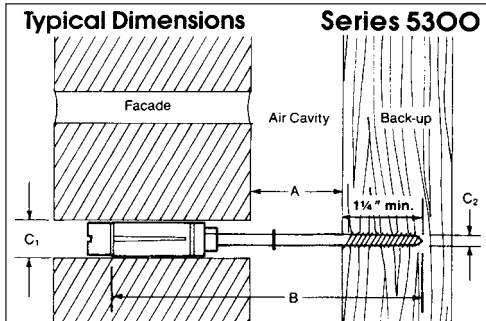
Warranty

Seller makes no warranty of any kind, express or implied, except that the goods sold under this agreement shall be of the standard quality of seller, and buyer assumes all risk and liability resulting from the use of the goods, whether used singly or in combination with other goods. Seller neither assumes nor authorizes any person to assume for seller any other liability in connection with the sale or use of the goods sold, and there is no oral agreement or warranty collateral to or affecting this transaction.

Performance in Wood

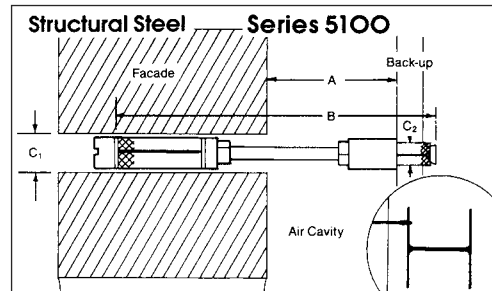
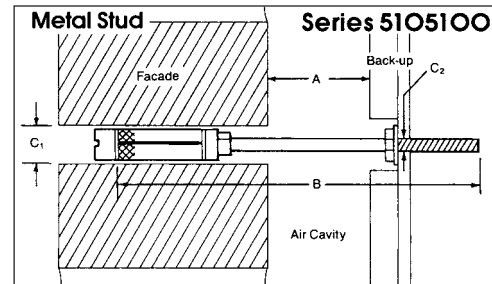
Type of wood	Installation	Ultimate wood thread strip failure	Recommended safe working load (max.)
2" x 4" kiln dried fir	2" edge @ 3/4" edge distance	800 lbs.	200 lbs.
2" x 6" pressurized lumber	2" edge @ 3/4" edge distance	1000 lbs.	250 lbs.
4" x 4" pressurized lumber	1-3/4" edge distance	1600 lbs.	400 lbs.

Based on tension tests of the timber connection at a minimum of 1-1/4" thread engagement. Facade connection 1,400 lbs. ultimate.



Performance in Steel

Product Series	Ultimate failure load
5100	2000 lbs.
5400	1400 lbs.
5200	800 lbs.
5105100	700 lbs. (400≤20ga.)
5205100	2000 lbs.



Ordering Information

Backup Material	Catalog Number	Air Cavity Range (In.) (A)	Nominal Anchor Lgth. (In.) (B)	Facade Hole Dia. (In.) (C ₁)	Backup Hole Dia. (C ₂)	Qty/ Box	Setting Tool Catalog Number
Wood	5005354	0"-1-1/2"	6"	1/2"	NR	25	5550001
	5005364	1"-2-1/2"	7"	1/2"	NR		
	5005374	2"-3-1/2"	8"	1/2"	NR		
	5005384	3"-4-1/2"	9"	1/2"	NR		

Torque Requirements (in.-lbs.)

Series	Facade	Backup
5300	50-100	25-35 on 2" x 4" and 2" x 6" 55-75 on 4" x 4" and pressurized lumber

Ordering Information

Backup Material	Catalog Number	Air Cavity Range (In.) (A)	Nominal Anchor Lgth. (In.) (B)	Facade Hole Dia. (In.) (C ₁)	Backup Hole Dia. (C ₂)	Qty/ Box	Setting Tool Catalog Number
Structural Steel 7/16" - 1-1/8" Thick	5005154	1/2"-1-1/2"	6"	5/8"	7/16"	25	5550001
	5005164	1-1/2"-2-1/2"	7"	5/8"	7/16"		
	5005174	2-1/2"-3-1/2"	8"	5/8"	7/16"		
	5005184	3-1/2"-4-1/2"	9"	5/8"	7/16"		
	5005194	4-1/2"-5-1/2"	10"	5/8"	7/16"		
	5005454	1/2"-1-1/2"	5-1/2"	1/2"	3/8"	25	5554001
	5005464	1-1/2"-2-1/2"	6-1/2"	1/2"	3/8"		
	5005474	2-1/2"-3-1/2"	7-1/2"	1/2"	3/8"		
	5005484	3-1/2"-4-1/2"	8-1/2"	1/2"	3/8"		
	5005494	4-1/2"-5-1/2"	9-1/2"	1/2"	3/8"		
Metal Stud, 14 ga.- 20 gal (tap backup) hole with 1/4"-20)	5105144	5/8"-1-1/4"	5"	5/8"	13/64"	25	5550001
	5105154	1"-2"	6"	5/8"	13/64"		
	5105164	1-1/2"-2-1/2"	7"	5/8"	13/64"		
	5105174	2"-3"	8"	5/8"	13/64"		
Structural Steel 1/8"- 3/4"	5205144	1-1/4"-1-7/8"	5"	5/8"	1/2"	25	5550001
	5205154	1-5/8"-2-5/8"	6"	5/8"	1/2"		
	5205164	2-1/8"-3-1/8"	7"	5/8"	1/2"		
	5205174	3-1/8"-4-1/8"	8"	5/8"	1/2"		

Torque Requirements (in.-lbs.)

Series	Facade	Backup
5200	50-100	25-35
5105100	50-100	25-35 on 20 ga. and thinner 40-75 on 18 ga. and thicker
5100 & 5400	50-100	50-100