

Wall-Dog™ Universal Light Duty Anchor

PRODUCT DESCRIPTION

The Wall-Dog is an all steel, one-piece screw anchor, which features high-profile threads for easy fastening into wallboard and other masonry base materials. The deep cutting, corkscrew-like threads provide for smooth entry and a powerful hold. When removed, the Wall-Dog leaves a much smaller hole than toggles or other systems. For aesthetic appearances, the Wall-Dog is available in two color finishes: white and chrome; and in two head styles: pan and oval. For fastening into wallboard or wood, no pre-drilling is required – the anchor is inserted through the fixture and screwed in with an ordinary Phillips screwdriver. Fastening into concrete, hollow or grout-filled concrete masonry, brick and plaster requires a pre-drilled hole using a 3/16" ANSI bit. Wall-Dog anchors are ideal for light to medium duty anchoring. Typical applications include lightweight fixtures, drapery supports, as well as electrical, telephone and cable accessories.

FEATURES AND BENEFITS

- Installs in a variety of base materials.
- Installs directly through fixtures into wallboard – no second step is required
- When removed the Wall-Dog leaves a much smaller hole than toggles or other systems
- Thread design prevents spinning and stripping
- Heat treated point penetrates metal and wood studs
- Two finished heads, oval and pan
- Two colors, chrome & white head
- No pilot hole required for wallboard
- Can be easily backed out of hole
- No hole spotting required

MATERIAL SPECIFICATIONS

Anchor Component	Component Material	
	Chrome Wall-Dog	White Head Wall-Dog
Anchor Body	Carbon Steel – AISI 1018	Carbon Steel – AISI 1018
Plating	Decorative Chrome	Screw Head – White Screw Body – Zinc

INSTALLATION SPECIFICATIONS

ANSI Drill Bit Size, d_{bit} (in.)	3/16 (Required for concrete, masonry and plaster)
Head Size	No. 8
Driver	No. 2 Phillips

Installation Guidelines

For fastening into wallboard or wood, no pre-drilling is required. The anchor is inserted through the fixture and screwed in with an ordinary Phillips screwdriver.



Fastening into concrete, grout-filled or hollow block, brick or plaster requires a 3/16" pre-drilled hole using a carbide tipped drill bit.



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Wall-Dog Chrome, Oval Head



Wall-Dog Chrome, Pan Head



Wall-Dog White, Oval Head



Wall-Dog White, Pan Head

ANCHOR MATERIALS

Carbon Steel

ANCHOR SIZE RANGE (TYP.)

1/4" Diameter with No. 8 Head

SUITABLE BASE MATERIALS

Normal-Weight Concrete
Grout-Filled Concrete Masonry
Hollow Concrete Masonry
Brick Masonry
Wallboard
Plywood
Plaster

PERFORMANCE DATA

Ultimate and Allowable Load Capacities for Wall-Dog in Normal-Weight Concrete¹

Anchor Diameter <i>d</i> in. (mm)	Minimum Embedment Depth <i>h_v</i> in. (mm)	Minimum Concrete Compressive Strength <i>f'_c</i> ≥ 4,000 psi (27.6 MPa)			
		Ultimate Load		Allowable Load	
		Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)
1/4 (6.4)	3/4 (19.1)	350 (1.6)	1,030 (4.6)	90 (0.4)	260 (1.2)
	1 (25.4)	700 (3.2)	1,070 (4.8)	175 (0.8)	270 (1.2)

1. Allowable load capacities listed are calculated using an applied safety factor of 4.0.

Ultimate Load Capacities for Wall-Dog in Wallboard and Plywood¹

Anchor Diameter <i>d</i> in. (mm)	1/2" Wallboard		5/8" Wallboard		3/4" Plywood	
	Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)
1/4 (6.4)	85 (0.4)	245 (1.1)	135 (0.6)	360 (1.6)	255 (1.1)	600 (2.7)

1. The values listed above are ultimate load capacities which should be reduced by a minimum safety factor of 4.0 or greater to determine the allowable working load.

Allowable Load Capacities for Wall-Dog in Wallboard and Plywood¹

Anchor Diameter <i>d</i> in. (mm)	1/2" Wallboard		5/8" Wallboard		3/4" Plywood	
	Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)
1/4 (6.4)	20 (0.1)	60 (0.3)	35 (0.2)	90 (0.4)	65 (0.3)	150 (0.7)

1. Allowable load capacities listed are calculated using an applied safety factor of 4.0.

Ultimate Load Capacities for Wall-Dog in Grout-Filled, Hollow Concrete Masonry and Structural Brick Masonry¹

Anchor Diameter <i>d</i> in. (mm)	Minimum Embedment Depth <i>h_v</i> in. (mm)	Anchor Location	Grout-Filled Concrete Masonry ASTM C 90		Hollow Concrete Masonry ASTM C 90		Brick Masonry	
			Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)
1/4 (6.4)	3/4 (19.1)	Center of Masonry Unit	–	–	–	–	400 (1.8)	650 (2.9)
	3/4 (19.1)	T-Joint	–	–	–	–	350 (1.6)	600 (2.7)
	1 (25.4)	Center of Masonry Unit	285 (1.3)	825 (3.7)	305 (1.4)	825 (3.7)	600 (2.7)	900 (4.1)
	1 (25.4)	T-Joint	290 (1.3)	915 (4.1)	290 (1.3)	915 (4.1)	380 (1.7)	825 (3.7)

1. The values listed above are ultimate load capacities which should be reduced by a minimum safety factor of 5.0 or greater to determine the allowable working load.

WALL ANCHORS

PERFORMANCE DATA

Allowable Load Capacities for Wall-Dog in Grout-Filled, Hollow Concrete Masonry and Structural Brick Masonry¹

Anchor Diameter <i>d</i> in. (mm)	Minimum Embedment Depth <i>h_v</i> in. (mm)	Anchor Location	Grout-Filled Concrete Masonry ASTM C 90		Hollow Concrete Masonry ASTM C 90		Brick Masonry	
			Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)
1/4 (6.4)	3/4 (19.1)	Center of Masonry Unit	–	–	–	–	80 (0.4)	130 (0.6)
	3/4 (19.1)	T-Joint	–	–	–	–	70 (0.3)	120 (0.5)
	1 (25.4)	Center of Masonry Unit	55 (0.2)	165 (0.7)	60 (0.3)	165 (0.7)	120 (0.5)	180 (0.8)
	1 (25.4)	T-Joint	60 (0.3)	185 (0.8)	60 (0.3)	185 (0.8)	75 (0.3)	165 (0.7)

1. Allowable load capacities listed are calculated using an applied safety factor of 5.0.

WALL ANCHORS

ORDERING INFORMATION

Wall-Dog Light Duty Anchor

Catalog Number		Description	Standard Box	Standard Carton
Oval Head	Pan Head			
2314	2316	Wall-Dog Chrome	100	1,000
2328	2330	Wall-Dog White Head	100	1,000



Wall-Dog Master Pack

Catalog Number		Description	Standard Box
Oval Head	Pan Head		
2317	2315	Wall-Dog Chrome Master Pack	5,000
2329	2331	Wall-Dog White Head Master Pack	5,000



Wall-Dog Kit (Screwdriver)

Catalog Number	Description	Standard Box	Standard Carton
2289	Wall-Dog Kit with Screwdriver	1	10

Screwdriver packaged with 50 Chrome Pan Head anchors and one No. 2 Phillips Screwdriver

Wall-Dog Kit (Bit)

Catalog Number	Description	Standard Box	Standard Carton
2332	Wall-Dog Kit with Drill Bit	1	10

Bit packaged with 50 Chrome Pan Head anchors and 3/16" Straight Shank Bit