

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

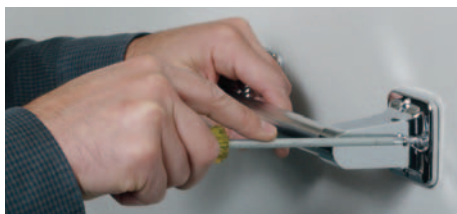
| Anchor Component | Component Material | |
|------------------|--------------------------|---|
| | Chrome Wall-Dog | White Head Wall-Dog |
| Anchor Body | Carbon Steel – AISI 1018 | Carbon Steel – AISI 1018 |
| Plating | Decorative Chrome | Screw Head – White Screw Body – Zinc |

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, Pan Head



Wall-Dog Chrome, Oval Head



Wall-Dog White, Pan Head



Wall-Dog White, Oval 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.

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



WALL ANCHORS