K Series drywall

About the product
Steelcraft’s K Series Drywall frames are designed for light to heavy duty applications in both commercial and institutional buildings. They can be installed in rough openings after the wall has been constructed and finished. They are installed in virtually all types of buildings in all interior drywall partition locations not using baseboards. To accommodate the installation of the K Series Drywall frames on finished drywall construction, they are supplied with a KD (knock-down) corner for quick installation.

Installation
1. Installation shall conform to the published Steelcraft installation instructions, ANSI A250.11-2012 (formerly SDI 105) Recommended Erection Instructions for Steel Frames.
2. Fire Rated Assemblies must be in accordance with NFPA Pamphlet 80. The Authority Having Jurisdiction is the final authority in issues related to the installation and use of installed Fire Rated Doors.

Features and benefits
Steelcraft K Series Drywall frames include unique features which enhance long-term functionality and durability:
1. Quick and flexible installation of Steelcraft’s K Series Drywall frames facilitates their installation in minutes and they can be relocated without damage to the frame.
2. Die-mitered corner connections of the K Series Drywall Frame corners lock together once the frame is installed. The tab/lock design:
   a. prevents the head from rising
   b. keeps the head and jamb members in alignment
   c. keeps the miter tight
   d. includes wedge-lock corner clips. Screws are supplied to secure miter.
3. Sill attachment is made through the face of the frame directly into the wall sill runner. The frame is supplied with factory countersunk holes for the screw attachment.
4. Factory prepared for field installed silencers.
5. Factory applied baked-on rust inhibiting primer in accordance with ANSI A250.10-2011.

Specification compliance
1. Overall frame construction for Steelcraft K Series Drywall frames meet the requirements of ANSI A250.8-2014 (SDI 100).
2. Hardware preparations and reinforcements are in accordance with ANSI A250.6. Locations are in accordance with ANSI/DHI A115 unless otherwise stated.

Fire ratings
The K Series Drywall frames meet the broadest fire rating requirements. They are listed for installations requiring compliance to both neutral pressure testing (ASTM E152 and UL 10B) and positive pressure standards (UL 10C). Refer to the Fire Rated Section of this manual for particular listings.

Applications
Steelcraft K Series Drywall frames are typically installed in wall construction types as defined in the chart below:

<table>
<thead>
<tr>
<th>Profile</th>
<th>Steel thickness</th>
<th>Wall construction</th>
<th>Typical wall anchors</th>
</tr>
</thead>
<tbody>
<tr>
<td>K16</td>
<td>16 Gauge [0.053” (1.3 mm)]</td>
<td>Drywall partitions with wood or steel stud</td>
<td>Compression jamb anchor(s) with factory countersunk holes for screw attachment directly to the wall sill runner</td>
</tr>
<tr>
<td>K14</td>
<td>14 Gauge [0.067” (1.7 mm)]</td>
<td>Drywall partitions with wood or steel stud</td>
<td>Compression jamb anchor(s) with factory countersunk holes for screw attachment directly to the wall sill runner</td>
</tr>
</tbody>
</table>
### Elevation

- **Finished Opening Width**: 2" (50 mm)
- **Opening Width**: ½" (13 mm)
- **Throat**: ½" (13 mm)
- **Opening Jamb Depth**: ½" (13 mm)
- **Depth**: 1/9/n (16 mm)
- **Varies**: Jamb Depth
- **Equal**: Throat
- **Finishing Opening Height**: 9 ¾" (248 mm)
- **Optional 14 gauge closer reinforcement**: HINGE
- **STRIKE**: HINGE

### Standard Double Rabbet Frame

- **Opening Width**: ½" (13 mm)
- **Throat Opening**: ½" (13 mm)
- **Jamb Depth**: 1 9/16" (40 mm)
- **Hinge**: HINGE
- **Strike**: STRIKE
- **Finishing Opening Height**: 9 ¾" (248 mm)
- **Standard profile dimensions (variations available)**
- **Corners**: Wedge Lock Corner with interlocking soffit tab

### Single Rabbet Frame

- **Opening Width**: ½" (13 mm)
- **Throat Opening**: 9/16" (14 mm)
- **Jamb Depth**: 1 9/16" (49 mm)
- **Varies**: Jamb Depth
- **Equal**: Throat
- **Finishing Opening Height**: 9 ¾" (248 mm)
- **Standard profile dimensions (variations available)**
- **Corners**: Wedge Lock Corner with interlocking soffit tab

### Frame sizing options

<table>
<thead>
<tr>
<th>Series</th>
<th>Maximum opening size</th>
<th>Jamb depth availability (profile)</th>
<th>Standard profile dimensions (variations available)</th>
<th>Corners</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Single rabbit</td>
<td>Double rabbet</td>
<td>Face</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Min.</td>
<td>Max.</td>
<td>Min.</td>
</tr>
<tr>
<td>K16</td>
<td>4’0” x 9’0”</td>
<td>3 ¼” (83 mm)</td>
<td>4 ½” (114 mm)</td>
<td>2” (51 mm)</td>
</tr>
<tr>
<td></td>
<td>(1219 mm x 2743 mm)</td>
<td></td>
<td></td>
<td></td>
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<td>(1219 mm x 2743 mm)</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
General notes
1. Variations in jamb depths available in ⅛" (3 mm) increments.
2. All K Series frames are supplied standard with field adjustable compression anchors located near the top of each jamb and factory countersunk holes for direct screw attachment to the wall runner.
   a. The compression anchor can be easily adjusted with a screw driver or power driver.
   b. A fastener [typically a drywall screw (by others)] is installed through the factory countersunk hole for attachment directly to the floor runner (sill) when not using wall baseboards.
3. Depending on environmental and usage conditions, the steel used can be either cold rolled or galvannealed. Galvannealed steel is recommended in areas of high moisture.
4. K Series frames are supplied standard with 4 ⅜" standard duty hinge preps. Optional universal 4 ⅜" or 5" hinge preps are available.
5. K Series with 4" heads are used mainly when installed in close proximity to a F Series or MU Series frame installed with a 4" head.

Frame options
<table>
<thead>
<tr>
<th>Series</th>
<th>Frame profile</th>
<th>Corner connections</th>
<th>4&quot; (102 mm) Heads</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>KD (Knock-down)</td>
<td>SUA (Set-up &amp; weld)</td>
</tr>
<tr>
<td></td>
<td>Single rabbet</td>
<td>Double rabbet</td>
<td>Single rabbet</td>
</tr>
<tr>
<td>K16</td>
<td>Typically for walls less than 3 ¾&quot; (95 mm) thick. Minimum walls thickness = 2&quot; (51 mm)</td>
<td>Factory Die-Mitered, Soffit Tab included. Corner clip assembly screws required on labeled frames.</td>
<td>N/A</td>
</tr>
<tr>
<td>K14</td>
<td>N/A - Not Available</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

N/A - Not Available
Anchoring and installation notes

1. **K Series Drywall frames** are supplied with field adjustable compression anchors in each jamb. The base of each jamb is anchored to the wall by installing screws through the factory prepared anchor holes. K Series frames are designed especially for use in applications not using base boards.

2. **For anchoring applications, refer to the Frames: Anchoring systems section of this manual.**

3. **Optional security anchor**: Security anchors are recommended in frames over 8’0” (2438 mm) high or in frames installed in areas where security is a priority. Locate the security anchor immediately above or below the strike reinforcements, and on both faces of the jamb. Anchors may be used in both the strike and hinge jamb. Also recommend to be used in the head of the frame for pairs.

4. **Grouting of the K Series frames** is not recommended.

5. Installation shall conform to the published Steelcraft installation instructions, SDI 105 Recommended Installation Instructions for Steel Frames.

6. All fire rated frames must be installed in accordance with NFPA Pamphlet 80 and the Authority Having Jurisdiction.

### Framing applications

<table>
<thead>
<tr>
<th>Series</th>
<th>Steel type</th>
<th>Building type</th>
<th>Opening</th>
<th>Usage frequency ¹</th>
<th>KD Corner ²</th>
<th>SUA Corner</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>K16</td>
<td>Non-Galvannealed ²</td>
<td>Institutional and Commercial</td>
<td>Interior</td>
<td>Heavy to extra heavy duty</td>
<td>✓</td>
<td>N/A</td>
<td>Typical building conditions where base boards are not being used</td>
</tr>
<tr>
<td></td>
<td>Galvannealed ³</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K14</td>
<td>Non-Galvannealed ²</td>
<td>Institutional and Commercial</td>
<td>Interior</td>
<td>Extra heavy to maximum duty</td>
<td>✓</td>
<td>N/A</td>
<td>Typical building conditions where base boards are not being used</td>
</tr>
<tr>
<td></td>
<td>Galvannealed ³</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹ Usage frequency is based on ANSI A250.8-2014 (SDI 100)
² Commercial quality carbon steel
³ Reinforcements for galvannealed frames are also galvannealed
⁴ Knock-Down for field assembly prior to installation