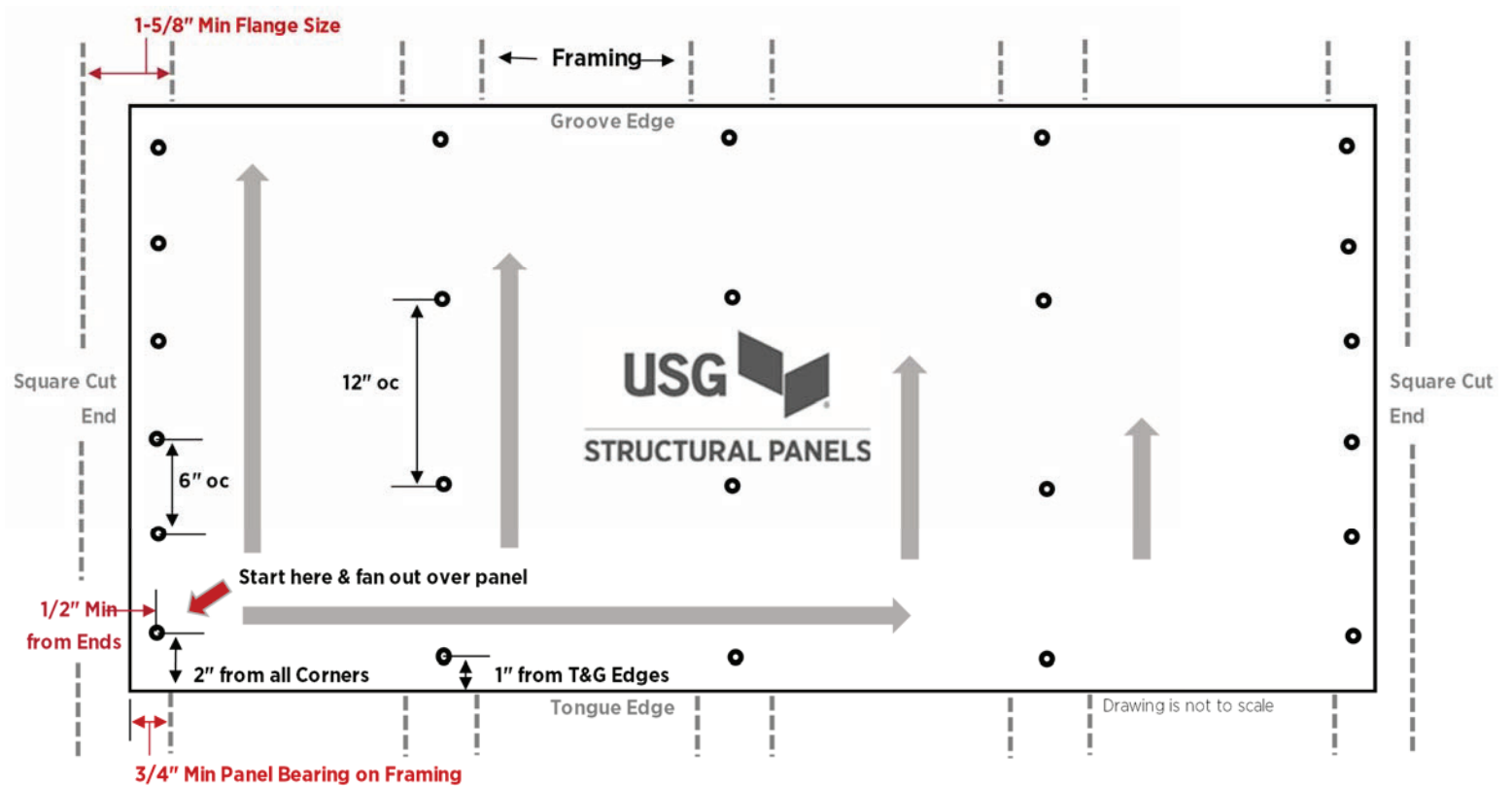


# USG STRUCTURAL PANEL INSTALLER TIP SHEET

Cold-Formed Steel Framing - 54-97 mil (16-12 ga.)

## Fastener Basics

- In accordance with PER-13067 (Subfloor) and PER-14076 (Roof Deck), the minimum screw pattern is 6 in. (153 mm) o.c. along the perimeter and 12 in. (305 mm) o.c. in the field of the panels.
- Do not use a larger size fastener unless specified by the structural engineer.
- Framing and fastener selected may affect minimum end distance and minimum flange required.
- Fasteners should be driven straight and shall be flush with the panel surface.



## Recommended Fasteners, Minimum End Distance, and Minimum Flange Sizes

Framing	Min. End Distance	Min. Flange	Manufacturer	Part Number	Fastener Description <sup>3</sup>	Drive Bit Part Number
<b>33-43 mil (20-18 ga) CFS</b>	1" (25mm)	2-5/8" (67 mm)	Grabber	CGH8158LG	#8 x 1-5/8" Winged Flat Wafer Head Self-Drilling Screw	T2178LN LOX® #2 (178 mm) <sup>7</sup>
<b>54-97 mil (16-12 ga) CFS</b>	1/2" (13mm)	1-5/8" (41 mm)	Grabber	CGH8158LG	#8 x 1-5/8" Winged Flat Wafer Head Self-Drilling Screw	T2178LN LOX® #2 (178 mm) <sup>7</sup>
			Simpson	CBSDQ158S	#8 x 1-5/8" Winged Self-Drilling Screw	BIT2SU #2 (undersized sq.)

### Table Notes:

**Framing** - CFS = cold-formed steel.

33 mil (structural 20 ga) CFS is for gravity loads only.

Framing gauge, size and type is determined by the engineer, architect or design professional of record.

Gauge/thickness of steel, fastener min. end distance, and joist min. flange width is identified for each fastener.

**Min End Distance** - minimum distance from the end (square cut) of the panel a fastener may be inserted.

**Min Flange** - minimize size flange required for this fastener and end distance to be used.

**Fastener Description** - any length of the same fastener is approved provided a minimum of 3 threads penetrate the steel framing.

Do not use a larger size fastener unless specified by the structural engineer.

**Drive Bit** - Grabber SuperDrive 75 uses the 178mm LOX® #2 drive bit. They also offer a 3" LOX® #2 drive bit, Part # 3002L.

**Go to [www.USGSCP95.com](http://www.USGSCP95.com) for the full list of recommended fasteners for all framing types and sizes.**



Contact our industry experienced Field Technical Sales Manager, Tim Lucas, for assistance with construction detail and installation issues.

### TIM LUCAS

Technical Sales Manager - Field

tlucas@usg.com

312-436-5748

USG.4YOU  
800 (874-4968)  
usg.com/structural

SCP89-USA-ENG/rev. 8-20  
© 2020 USG Corporation and/or its affiliates  
All rights reserved.  
Printed in USA

**A qualified architect or engineer should review and approve calculations, framing, and fastener spacing for all projects.**

### PRODUCT INFORMATION

See usg.com for the most up-to-date product information.

### Notice

We shall not be liable for any special, incidental or consequential damages, directly or indirectly sustained, not for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from the date it was or reasonably should have been discovered.

### DANGER

The following are warnings when installing the panels. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause respiratory irritation. May cause cancer by inhalation of respirable crystalline silica. Do not handle until all safety precautions have been read and understood. Avoid breathing dust. Use only in a well-ventilated area, wear a NIOSH/MSHA approved respirator. Wear protective gloves/protective clothing/eye protection. If in eyes: rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing. Immediately call a poison center/doctor. If on skin: wash with plenty of water. Take of contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. If skin irritation or rash occurs, or otherwise exposed or concerned: get medical attention. Store locked up. Dispose of in accordance with local, state, and federal regulations. For more information call Product Safety: 800 507-8899 or see the SDS at usg.com. **KEEP OUT OF REACH OF CHILDREN.**

### TRADEMARKS

The trademarks USG, IT'S YOUR WORLD. BUILD IT., the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. GRABBER, SUPERDRIVE and LOX are trademarks of Grabber Construction Products, Inc.

### SAFETY FIRST!

Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read SDS and literature before specification and installation.

Manufactured by  
United States Gypsum Company  
550 West Adams Street  
Chicago, IL 60661