USG Structural Solutions



LIMITATION

INSTALLATION

USG STRUCTURAL PANEL CONCRETE ROOF DECK

A concrete roof deck that can be combined with other noncombustible materials to create 1- and 2-hour fire-rated roof-ceiling assemblies.

- Strong, durable concrete panel; great uplift ratings
- Dimensionally stable; panel will not buckle or warp like wood sheathing; no moisture issues like structural concrete
- Installs fast and easy: circular saw for cutting; screws for fastening
- Meets the criteria of ASTM E136-12 for use in all types of noncombustible construction

USG Structural Panel Concrete Roof Decks are mechanically fastened to cold-formed steel joists or framing members. This roof system is designed to carry gravity and lateral loads. Roof membranes may be applied directly over USG Structural Panel Concrete Roof Decks. For retrofit or renovation projects, USG Structural Panel Concrete Roof Decks can also be installed on wood-joists and hot-rolled steel framing. See recommended fasteners within this submittal sheet.

USG Structural Panel Concrete Roof Decks can carry a total load, live and dead, of 150 psf (7.2 kPa) on cold-formed steel framing spaced 48" (1220mm) o.c.

USG Structural Panel Concrete Roof Decks have a linear variation with change in moisture content of less than 0.10%. This means that the panels will not buckle or warp like wood sheathing.

Cutting USG Structural Panel Concrete Roof Decks require a carbide-tipped saw blade and a circular saw equipped with dust collection or suppression to lessen airborne dust. Fastening is also conventional, using a screw gun and self-drilling No. 8-gauge screws. Because these panels are so durable, they may be installed in most weather conditions, including mild precipitation (rain or snow) and temperatures from 0°F to 125°F (-18°C to 52°C).

USG Structural Panel Concrete Roof Decks should not be left in service without an appropriate roof membrane covering.

To perform in the expected manner, USG Structural Panel Concrete Roof Decks must be installed according to USG specifications, using only the listed materials and components. For a complete set of specifications, email usgstructural@usg.com.

As with all types of construction, appropriate safety procedures must be followed to protect installers from personal injuries resulting from lifting incorrectly, falling, and eye, hand and lung irritation.

Care must be taken when placing pallets of USG Structural Panel Concrete Roof Decks on roof framing. A pallet of USG Structural Panel Concrete Roof Decks, 20 sheets, 3/4" x 4' x 8' (19mm x 1220mm x 2440mm) weighs approximately 3,400 lbs. (1542 kg). Do not exceed limits when loading pallets or panels on open framing or completed roof assemblies. Store units next to structural walls where the joists meet the wall. See *USG Structural Panel Concrete Roof Deck Field Installation Guideline* (form SCP43) for additional information.



INSTALLATION CONT.

RECOMMENDED FASTENERS

USG recommends the following fasteners for the installation of USG Structural Panels to structural framing:

Manufacturer		16 ga. Cold-Formed Steel [1/2 in. (13 mm) Min. Edge Distance]		SPF Lumber [5/8 in. (16 mm) Min. Edge Distance]		1/4 in. (6.5 mm) A36 Hot-Rolled Steel [3/4 in. (19 mm) Min. Edge Distance]	
	Part #	Fastener Pull-Through'	Part #	Fastener Pull-Through ¹	Part #	Fastener Pull-Through	
Grabber Constructio Products, Inc.	n CGH8158LG	581 lb. (264 kg)	C8200L2M	581 lb. (264 kg)	-	-	
Simpson Strong-Tie Company Inc	CBSDQ158S	581 lb. (264 kg)	WSNTLG2S	581 lb. (264 kg)	TBG1260S	581 lb. (264 kg)	
SENCO ²	-	-	GL24AABF ³	581 lb. (264 kg)	-	-	
2. SENCO 8d ring sha	signer of record sh nk nails are manufa nt 8d ring shank n er of record. ance for nails is 1/2 ordance with PER- mm) o.c. in the fie	all apply an approp actured with a lengt ails meeting these d ? in. 14076, the minimur Id of the panels. Do	riate safety facto h of 2-3/8 in., he limensional requi n screw pattern i not use a larger	rr (ASD) or resistanc ad diameter of 0.26 irements may be uti s 6 in. (153 mm) o.c. size screw unless sp	e factor (LRFI 6 in., and a shi lized when ap along the per ecified by the	D). ank diameter proved by the imeter of the structural enginee	
The steel roof fra in the contract d (41mm) wide wit framing must be the contract doc installation and l	ocuments. The h at least 3/4" a minimum 16 uments and th	e attachment fl (19mm) of the gauge and spa he steel framing	ange or bear panel bearin aced no grea	ing edge must g on the suppo ter than 48" (12	be a minim rting flang 20mm) o.o	um 1-5/8" e. Metal c. Follow	
Place sheathing high traffic areas <i>Roof Deck Field</i> Cut panels to siz device or a wate and a NIOSH-ap	e with a circula proved N95 du	wly installed co ideline (form Si ar saw equippe evice that limit ist mask when	oncrete roof of CP43) for ad- d with carbic s the amount cutting this p	decks. See USG ditional informa de-tipped blade t of airborne du banel. Dispose o	Structural ation. and a dry ast. Wear sa	Panel Concrete dust collection afety glasses	
manner and in co Install USG Struct framing. Apply t after it has been panels in a runni are staggered by and groove join less than 24" (61 formed from ste base metal thick flange or bearing must bear on the Installation Guid	tural Panel Cc he panel with placed following bond patte v at least two s s should be fr Omm) wide, al el complying v ness (no. 16 ga g edge must b e supporting fl	ncrete Roof De the print marking the fastenin rn so that end supports from v ee of debris ar I edges must b vith AISI Gener auge) and a min e at least 1-5/8° ange or edge.	ecks with the ngs facing up ng schedule li joints fall ove where the en nd fitted tigh e supported al, with a mir nimum G60 g " (41mm) wid See USG Stru	long edges per o toward the ins isted in the con er the center of d joints fall in th tly without any by blocking. Blo imum 54 mils (galvanized coati le and at least 3 ictural Panel Co	taller. Fast tract docur the framin- ne adjacent gapping. ocking mus 0.0538 inc ing. The at 5/4" (19mm	en each panel ments. Install g members and t rows. Tongue For all panels st be cold- th or 1.36mm) tachment I) of the panel	
Installed panels avoid accumulat removal whenev	ion of snow ar er possible. Ex gnificant accu	d/or ice on inst cessive shoveli	talled panels ing or scrapir	. Brooms should ng may damage :e, use indirect	d be used f e installed p	or snow banel surface.	

FING SYSTEM	application of roof materials. Bef	ore the application of roof	cturer's recommendations for the materials, ensure that all panels are ghtly below the surface of the panels.				
ODUCT DATA	approximately 170 lbs. (77kg) and	Sizes and Packaging: 3/4" x 4' x 8' (19mm x 1220mm x 2440mm) panels. Each panel weighs approximately 170 lbs. (77kg) and is intended to be handled by two people. USG Structural Panel Concrete Roof Decks are packaged in 20-piece units.					
	Availability: USG Structural Panel Concrete Roof Decks are sold through any USG distributor. Email usgstructural@usg.com for information on availability and a dealer in your area.						
	Storage: USG Structural Panel Co	Storage: USG Structural Panel Concrete Roof Decks are shipped in 20-piece units. Panels should be stored in a horizontal position and uniformly supported. Panels must be covered when stored					
	units. Therefore, care should be t are not exposed to excessive mo together within a unit, the unit ne the ice to melt naturally. Never pl	aken to ensure units of USC isture, ice and snow. In the eeds to be brought to a tem hysically pry panels apart. S Covering the units complete	panels sticking together within the G Structural Panel Concrete Roof Decks event that panels do become frozen operature above 32°F (0°C) to allow Salt, fertilizer or other deicing agents sly with tarps or similar coverings is an				
	except to remove standing water panels should be replaced with so	and repair damage from a ound USG Structural Panel					
	replacement panels must be a mi supports. If not, the replacement	inimum of 24" (610mm) wid panel must be fully blocke	de and must span a minimum of two d on all sides. See <i>USG Structural</i> SCP43) for additional information.				
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(a) Fastener lateral resistance measured with #81-5/8" (41mm) Hi-Low screw.
(b) Density measured at equilibrium conditioning per Section 5.2.3.1., 28 days after manufacturing.
(c) Absorption measured from equilibrium conditioning followed by immersion in water for 48 hours.
(d) Reference Standard: California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010 (Emission testing method for CA Specification 01350).

SYSTEM PERFORMANCE

Description	Reference
Code Reports	PER-14076
Ultimate Uniform Load	150psf (7.2kPa) @ 48" o.c. (1220mm). See Table
Shear Diaphragm Ratings	1641plf ^b (23.9kN/m)
UL 1-, 1.5-, 2-Hour Fire Resistance Designs	P561, P562, P573
UL Roofing System, Uplift Resistance	TGIK.R25352

(a) On steel framing.

(b) Joists spaced 48" (1219.2mm) o.c. and fasteners spaced 4" (102mm) o.c. at the perimeter and 12" (305mm) o.c. in field, fully blocked. See the Progressive Engineering Inc. Product Evaluation Report PER-14076.

LOAD TABLE

The following table represents the load-carrying capacity of USG Structural Panel Concrete Roof Decks. For the most up-to-date load tables, see the Progressive Engineering Inc. report, PER-14076. For technical questions, email usgstructural@usg.com. A qualified architect or engineer should review and approve calculations, framing and fastener spacing for all projects.

Ultimate Uniform Load for USG Structural Panel Concrete Roof Deck

Joist Spacing - inches (millimeters)	12" (305mm) 16" (406mm)		24" (610mm)	32" (813mm)	48" (1220 mm)
Uniform Load - psf (kPa)	1,320 psf	744 psf	330 psf	240 psf	150 psf
	(63.2 kPa)	(35.6 kPa)	(15.8 kPa)	(11.5 kPa)	(7.2 kPa)

For SI: 1 inch = 25.4mm, 1 psf = 47.88 Pa.

(1) Ultimate Load Values have no safety factor included.

(2) Two framing spans minimum per panel piece.

(3) Ultimate Uniform Load Table for general reference only.

For complete load capacities, consult Progressive Engineering Inc. Product Evaluation Report PER-14076

(4) Blocking at all joints perpendicular to framing to be a minimum of 16 gauge 3-5/8" wide track. For sheathing installation where a single span condition exists, additional track blocking is required perpendicular to the framing located mid-way between the edges of the panel.

SUBMITTAL APPROVALS

Job Name	
Contractor	Date

PRODUCT INFORMATION

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

DANGER

Causes skin irritation. Causes serious eve 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/MSHAapproved respirator. Wear protective gloves/protective clothing/eve 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 off 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.

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NOTICE

We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor 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 date it was or reasonably should have been discovered.

SAFETY FIRST!

Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protection equipment. Read SDS and literature before specification and installation. usg.com/structural Manufactured by United States Gypsum Company 550 West Adams Street

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