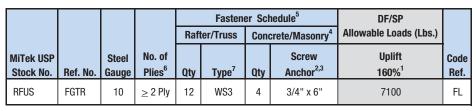
The RFUS is a multi-purpose engineered solution for attaching trusses to concrete or masonry walls. Screw Anchor fastening eliminates mislocated cast-in-place anchor bolts and allows retrofit installations.

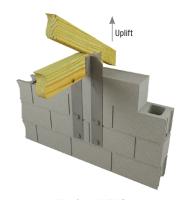
Materials: 10 gauge Finish: Primer Codes: FL

Installation:

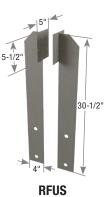
- · Always install in pairs.
- Use all specified fasteners. See Product Notes, page 18.
- Designer shall be responsible for design of masonry structure, including any required reinforcement.
- MiTek's WS structural wood screws are included with RFUS connector.
- For 1-ply applications, add filler block. Refer to page 287 for wood filler block installation.
- Moisture barrier may be required.



- 1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
- 2) Use DeWalt 3/4" x 6" Screw-Bolt™+; or equal, installed in accordance with manufacturer's specifications.
- 3) DeWalt 3/4" x 6" Screw-Bolt™+ are not supplied with RFUS ties. See page 45 for anchor information.
- 4) Fasteners shall be installed to fully grouted and reinforced masonry units (CMU) type S or better mortar or reinforced concrete (f'c = 2,500 psi at 28 days).
- 5) Fastener shedule is for two straps used together. The straps shall be installed in pairs.
- 6) Truss plies shall be fastened together to act as a single unit.
- 7) MiTek's WS3 structural wood screws are 1/4" dia. x 3" long and are supplied with RFUS connector.



Typical RFUS installation



MiTek® USP® Product Catalog

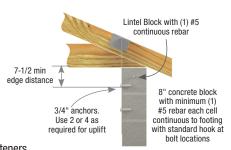
UGTS – 2-screw anchor shorter design when space is limited

USC – 4-screw anchor high load design

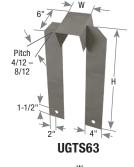
Materials: 10 gauge Finish: Primer Codes: FL

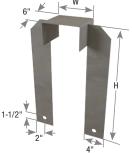
Installation:

- Use all specified fasteners. See Product Notes, page 18.
- Place connector over truss or rafter and fasten with specified fasteners.
- Designer shall be responsible for design of masonry structure, including any required reinforcement.
- For 2-ply applications, add filler block. Refer to page 287 for wood filler block installation.
- . Works with heel heights up to 14".
- . Moisture barrier may be required.

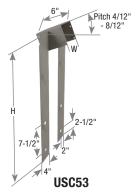


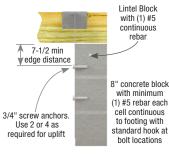
Typical USC53 installation
UGTS Similar



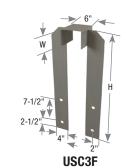


UGTS4F









				Dimens	ions (in)	Rafter/ Truss Concrete/			DF/SP		
						Rafte	r/ Truss	_	oncrete/ sonry Wall	Allowable Loads (Lbs.)	
	MiTek USP		Steel						Screw	Uplift	Cod
Description		Ref. No.	Gauge	w	н	Qty	Type ⁵	Qty	Anchor ^{2,3,4}	160% ¹	Ref
	UGTS3F		10	4-3/4	23	8	16d	2	3/4" x 6"	7813	
3-Ply Flat	USC3F		10	4-3/4	30-1/2	8	16d	2	3/4" x 6"	7813	
	USUSF		10	4-3/4	30-1/2	°	Tou	4	3/4 X U	10133	
	UGTS4F		10	6-1/2	23	8	16d	2	3/4" x 6"	7813	
4-Ply Flat	USC4F		10	6-1/2	30-1/2	8	16d	2	3/4" x 6"	7813	
	03041		10	0-1/2	30-1/2	0	Tou	4	3/4 X 0	10133	
	UGTS43		10	4-3/4	23	8	16d	2	3/4" x 6"	7813	
	UGTS44		10	6-1/2	23	8	16d	2	3/4" x 6"	7813	
4/12 pitch	USC43		10	4-3/4	30-1/2	8	16d	2	3/4" x 6"	7813	
4/12 pitch	00040		10	4-0/4	30-1/2		100	4	3/4 X 0	10133	
	USC44		10	6-1/2	30-1/2	8	16d	2	3/4" x 6"	7813	
	00044		10	0-1/2	30-1/2		100	4	3/4 X 0	10133	
	UGTS53		10	4-3/4	23	8	16d	2	3/4" x 6"	7813	
	UGTS54		10	6-1/2	23	8	16d	2	3/4" x 6"	7813	
5/12 nitch	USC53		10	4-3/4	30-1/2	8	16d	2	3/4" x 6"	7813	
5/12 pitch			10	7 0/7	00 1/2		100	4	0/4 / 0	10133	
	USC54		10	6-1/2	30-1/2	8	16d	2	3/4" x 6"	7813	
								4		10133	FL
	UGTS63		10	4-3/4	23	8	16d	2	3/4" x 6"	7813	
	UGTS64		10	6-1/2	23	8	16d	2	3/4" x 6"	7813	4
6/12 pitch	USC63		10	4-3/4	30-1/2	8	16d	2	3/4" x 6"	7813	4
			_			_		4		10133	
	USC64		10	6-1/2	30-1/2	8	16d	2	3/4" x 6"	7813	
								4		10133	4
	UGTS73		10	4-3/4	23	8	16d	2	3/4" x 6"	7813	
	UGTS74		10	6-1/2	23	8	16d	2	3/4" x 6"	7813	
7/12 pitch	USC73		10	4-3/4	30-1/2	8	16d	2	3/4" x 6"	7813	
·								4		10133	4
	USC74		10	6-1/2	30-1/2	8	16d	2	3/4" x 6"	7813	
								4		10133	4
	UGTS83		10	4-3/4	23	8	16d	2	3/4" x 6"	7813	-
	UGTS84		10	6-1/2	23	8	16d	2	3/4" x 6"	7813	-
8/12 pitch	USC83		10	4-3/4	30-1/2	8	16d	2	3/4" x 6"	7813	
			-			. 0		4		10133	
	USC84		10	6-1/2	30-1/2	8	16d	2	3/4" x 6"	7813	
				I	I		"	4		10133	

- 1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
- 2) Use DeWalt 3/4" dia. x 6" Screw-BoltTM+; or equal, installed in accordance with manufacturer's specifications. 3) DeWalt 3/4" dia. x 6" Screw-BoltTM+ are not supplied with ties. See page 45 for anchor information.
- 4) Fasteners shall be installed to fully grouted and reinforced masonry units (CMU) type S or better mortar or reinforced concrete (f'c = 2,500 psi at 28 days).
- 5) NAILS: 16d nails are 0.162" dia. x 3-1/2" long.

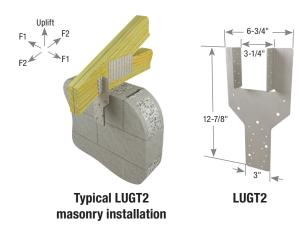
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The LUGT series is an adaptable tiedown for girder trusses and offers several installation options to accommodate different framing conditions. It is an ideal retrofit solution to reinforce truss connections to transfer high wind loads to supporting walls and can be used on either concrete or CMU block walls. Sizes available for 2-ply, 3-ply and 4-ply trusses.

Materials: See chart Finish: G90 galvanizing

Installation:

- Use all specified fasteners. See Product Notes, page 18.
- All large fastener holes must be filled with specified fasteners to achieve loads listed in the chart. Smaller fastener holes are for girder-to-stud applications (reference page 257) and do not need to be filled when used for concrete/masonry installations.
- MiTek's WS structural wood screws are included with LUGT3 and LUGT4.
- For concrete and masonry applications, a moisture barrier may be required, check local building code.





masonry installation (LUGT3 similar)

					Faste	Fastener Schedule ²			DF/SP			S-P-F			
			No.	Doff	er/Truss	(CMU/Concrete	Allowa	ble Loads	(Lbs.) ¹	Allowa				
MiTek USP		Steel	of	nait	ci/iiuss	Wall ⁴		Uplift	F1 F2		Uplift F1		F2		
Stock No.	Ref. No.	Gauge	Plies	Qty	Type ^{5,6}	Qty	Qty Screw Anchor ³		160%	160%	160%	160%	160%	Code	
					Con	crete/	Masonry Installatio	n						Ref.	
LUGT2	LGT2	14	2	16	10d	5	1/4" x 3"	1655	1015	475	1460	790	475		
LUGT3	LGT3-SDS2.5	12	3	12	WS25	4	3/8" x 5"	3380			3380				
LUGT4	LGT4-SDS3	12	4	16	WS3	4	3/8" x 5"	3380			3380				

- 1) Allowable loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
- 2) Additional anchorage products to be designed by others.
- 3) Use DeWalt Screw-Bolt™+ 1/4" dia. x 3" or 3/8" dia. x 5" screw anchors; or equal, installed in accordance with manufacturer's specification. Screw Anchors must be ordered seperately, see page 44 for anchor information.
- 4) Fasteners must be installed in fully grouted and reinforced concrete masonry (f'm = 1,500 psi) or reinforced concrete (f'c = 2,500 psi).
- 5) MiTek's WS25 structural wood screws are 1/4" dia. x 2-1/2" long (supplied with LUGT3) and WS3 structural wood screws are 1/4" dia. x 3" long (supplied with LUGT4).
- 6) NAILS: 10d nails are 0.148" dia. x 3" long.

Designed for higher uplift resistance for concrete block construction. The MUGT15 can accommodate variable truss bearing depths.

Materials: 12 gauge Finish: G90 galvanizing Codes: IBC, FL, LA

Install a minimum of (6) 10d nails into face

Install a minimum of (12) 10d nails into back Install a minimum of (4) 10d nails into the top

Typical MUGT15 installation

MUGT15

Installation:

- Use all specified fasteners. See Product Notes, page 18.
- When straps are wrapped over the truss, install nails in backside of truss. See MUGT15
 installation diagram for minimum nail requirements into the face and on top of the truss.
- If installed straight-up with no wrap over the top of the truss, fill all nail holes.
- . Moisture barrier may be required.

				Fastener Schedule ³						DF/SP	S-P-F		
				A	nchor		Rafte	r/Truss	5	Allowable	Allowable		
MiTek USP		Steel	Mounting	Bolt ^{2,4}		Top	p Face Back			Loads (Lbs.)	Loads (Lbs.)		
Stock No.	Ref. No.	Gauge	Condition	Qty	Dia (in)	- 1	Qty	Qty	Туре	Uplift 160% ¹	Uplift 160% ¹	Code	
Concrete/Masonry Installation													
MUGT15	MGT	12	Face-Max	1	5/8		28		10d	4240	3730	IBC,	
WIOGITS	IVIGI	12	Top-Min	1	5/8	4	6	12	10d	3945	3160	FL, LA	
1) Allowoble	loodo hove	hoon inc	rooped 600/ 1	for wir	nd or onio	mio loo	do: no	further	inorono	shall be permit	tod		

- Allowable loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
- 2) MiTek CIA-GEL 7000-C may be used to anchor 5/8" threaded rod when installed into an 8" wide reinforced masonry or concrete wall. With 12" minimum embedment, the MUGT15 will achieve loads listed in table. Reinforcement is to be specified by the certified designer.
- 3) Additional anchorage products to be designed by others.
- 4) Designer must specify anchor bolt type, length, and embedment.
- 5) NAILS: 10d nails are 0.148" dia. x 3" long.
- New products or updated product information are designated in blue font.

HUGT Girder Tiedowns

The HUGT series high uplift girder tiedowns can be installed on beams and top chords of trusses with slopes from 0° to 34° .

Materials: 7 gauge Finish: Primer Codes: FL

Installation:

- Use all specified fasteners. See Product Notes, page 18.
- Install the HUGT over the beam or truss (see "W" dimension on chart for appropriate width).
- Attached members shall be designed to resist applied loads.
- Moisture barrier may be required.







HUGT

				O.C. Dim Between	Thr	Threaded Rod Girder		DF/SP Allowable Loads (Lbs.) ^{1,2}	S-P-F Allowable Loads (Lbs.) ^{1,2}		
MiTek USP Stock No.	Ref. No.	Steel Gauge	W (in)	Anchors (in)	Otv	Dia (in)	Otv	Type	Uplift 160%	Uplift 160%	Code
			C	oncrete/M	ason	ry Insta	llatio				Ref.
HUGT2	HGT-2	7	3-5/16	5-3/4	2	3/4	8	10d	9575	6925	
HUGT3	HGT-3	7	4-15/16	7-3/8	2	3/4	8	10d	9860	7805	FL
HUGT4	HGT-4	7	6-7/8	9	2	3/4	8	10d	9860	7790	

- 1) Allowable loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
- 2) Listed loads apply where roof pitch is between 3:12 and 8:12.
- 3) Additional anchorage products to be designed by others.
- 4) Designer must specify anchor bolt type, length, and embedment.
- 5) **NAILS:** 10d nails are 0.148" dia. x 3" long.

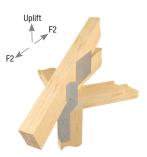
The LUGT series is an adaptable tiedown for girder trusses and offers several installation options to accommodate different framing conditions. It is an ideal retrofit solution to reinforce truss connections to transfer high wind loads to supporting walls. Sizes available for 1-ply, 2-ply, 3-ply and 4-ply trusses.

Materials: See chart **Finish:** G90 galvanizing

Codes: See chart for code references

Installation:

- Use all specified fasteners. See Product Notes, page 18.
- All fastener holes must be filled with specified fasteners to achieve loads listed in the chart. Large fastener holes are for concrete/masonry installations (reference page 253) and do not need to be filled when used for girder-to-stud applications.
- . MiTek's WS structural wood screws are included with LUGT3 and LUGT4.



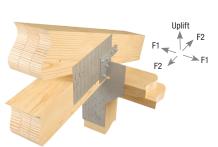
Typical LUGTC2 corner hip installation



LUGTC2

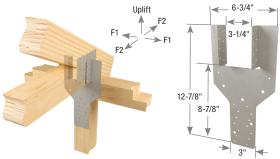


Typical LUGT1
offset stud installation
(See footnote #4)



Typical LUGT3 installation (LUGT4 similar)

Fastener Schedule^{2,3,7,8}



Typical LUGT2 installation





Typical LUGT1 installation



LUGT1



S-P-F

DF/SP

LUGT4

12-7/8"
16-1/8"
6-1/4"
LUOTA

					Ra	fter/Truss		Plate		Stud	Allowa	ble Loads	(Lbs.) ¹	Allowa	ole Loads (Lbs.) ¹		
	No. of Plies	MiTek USP Stock No.	Ref. No.	Steel Gauge	Qty	Туре	Qty	Туре	Qty	Туре	Uplift ⁴	F1 160%	F2 160%	Uplift ⁴	F1 160%	F2 160%	Code
							Woo	od-to-Wood I	Instal	lation							Ref.
	1	LUGT1	H10S	18	8	8d x 1-1/2	8	8d x 1-1/2	7	8d x 1-1/2	1045	600	175	920	470	175	
l	2	LUGT2	LGT2	14	16	10d	2	10d	14	10d	2020	880	495	1780	685	495	IBC,
	۷	LUGTC2		14	16	10d	2	10d	14	10d	2020	455		1780	355		FL, LA
l	3	LUGT3	LGT3-SDS2.5	12	12	WS25	4	16d Sinker	24	16d Sinker	3500	1980	890	3080	1575	665	
١	4	LUGT4	LGT4-SDS3	12	16	WS3	5	16d Sinker	32	16d Sinker	4725			4160			

- 1) Allowable loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
- 2) Additional anchorage products to be designed by others.
- 3) For proper installation, the number of studs must be equal-to or greater-than the number of roof truss plies.
- 4) The LUGT1 can be installed with the stud offset from the rafter a maximum of 1" (center-to-center) for a reduced allowable uplift load of 955-lb (DF/SP) and 840-lb (S-P-F).
- 5) Fasteners must be installed in fully grouted and reinforced concrete masonry (f'm = 1,500 psi) or reinforced concrete (f'c = 2,500 psi).
- 6) Use DeWalt Screw-Bolt™+ 1/4" dia. x 3" or 3/8" dia. x 5" screw anchors; or equal, installed in accordance with manufacturer's specification.
- 7) MiTek's WS25 structural wood screws are 1/4" dia. x 2-1/2" long (supplied with LUGT3) and WS3 structural wood screws are 1/4" dia. x 3" long (supplied with LUGT4).
- 8) NAILS: 8d x 1-1/2 are 0.131" dia. x 1-1/2" long, 10d nails are 0.148" dia. x 3" long, 16d Sinkers are 0.148" dia. x 3-1/4" long,
- New products or updated product information are designated in **blue font.**

14-5/8

designed by others

Min 3" x 3" x 1/4"

Bearing Plate

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Designed for higher uplift resistance for wood frame construction. The MUGT15 can accommodate variable truss bearing depths.

Materials: 12 gauge Finish: G90 galvanizing Codes: IBC, FL, LA

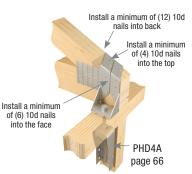
Installation:

- Use all specified fasteners. See Product Notes, page 18.
- When straps are wrapped over the truss, install nails in backside of truss. See MUGT15 installation diagram for minimum nail requirements into the face and on top of the truss.
- If installed straight-up with no wrap over the top of the truss, fill all nail holes.
- Moisture barrier may be required.

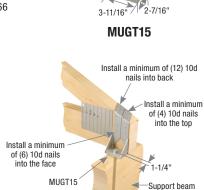
				Fastener Schedule ² Rod/Bolt ³ Rafter/Truss ⁴					DF/SP Allowable	S-P-F Allowable		
MiTek USP		Steel	Mounting	Dia		Тор	Face	Back		Loads (Lbs.)	Loads (Lbs.)	
Stock No.	Ref. No.	Gauge	Condition	Qty	(in)	Qty	Qty	Qty	Туре	Uplift 160% ¹	Uplift 160% ¹	Code
			Wood-T	o-Wood	l Install	ation						Ref.
MUGT15	MGT	12	Face-Max	1	5/8		28		10d	4240	3730	IBC,
WIDGITS	IVIGT	12	Top-Min	1	5/8	4	6	12	10d	3945	3160	FL, LA

- $1) Allowable \ loads \ have \ been \ increased \ 60\% \ for \ wind \ or \ seismic \ loads; \ no \ further \ increase \ shall \ be \ permitted.$
- 2) Additional anchorage products to be designed by others.
- 3) Designer must specify anchor bolt type, length, and holdown device.
- 4) NAILS: 10d nails are 0.148" dia. x 3" long.

New products or updated product information are designated in blue font.



Typical MUGT15 top-min installation with PHD4A



Typical MUGT15 connection to support beam

HUGT Girder Tiedowns

The HUGT series high uplift girder tiedowns can be installed on beams and top chords of trusses with slopes from 0° to 34° .

Materials: 7 gauge Finish: Primer Codes: FL

Installation:

MiTek USP

Stock No.

HUGT2

HUGT3

HUGT4

- Use all specified fasteners. See Product Notes, page 18.
- Install the HUGT over the beam or truss (see "W" dimension on chart for appropriate width).
- Install (4) LBP58-TZ washers for (2) 5/8" tension rod/bolts.
- Attached members shall be designed to resist applied loads.
- Moisture barrier may be required.

Steel

Gauge

Ref. No.

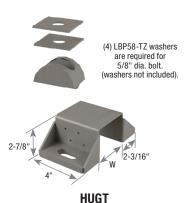
HGT-2

HGT-3

HGT-4



Typical HUGT3 installation with HTT45's



	O.C. Dim		Faster Anchor Vashers	ner Schedule ^{3,5} Threaded Rod Gird			rder	DF/SP Allowable Loads (Lbs.) ^{1,2}	S-P-F Allowable Loads (Lbs.) ^{1,2}	
W (in)	Between Anchors (in)	Qty	Туре	Qty	Dia (in)	Qty	Туре	Uplift 160%	Uplift 160%	Code
	Wo	od-t	o-Wood Ins	talla	tion					Ref.
3-5/16	5-3/4	4	LBP58-TZ	2	5/8	8	10d	9575	6925	
4-15/16	7-3/8	4	LBP58-TZ	2	5/8	8	10d	9860	7805	FL
6-7/8	9	4	LBP58-TZ	2	5/8	8	10d	9860	7790	

- 1) Allowable loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
- 2) Listed loads apply where roof pitch is between 3:12 and 8:12.
- 3) Additional anchorage products to be designed by others.
- 4) Designer must specify anchor bolt type, length, and holdown device.
- 5) **NAILS:** 10d nails are 0.148" dia. x 3" long.

The Universal Girder Tiedown, UGTQ, is a high capacity tiedown designed to resist uplift loads on multi-ply roof trusses. The UGTQ installs with MiTek's WS structural wood screws and is fastened on one side for single connector installations or opposite sides for two connector installations. The UGTQ is available in left and right models for installation near the end of girders.

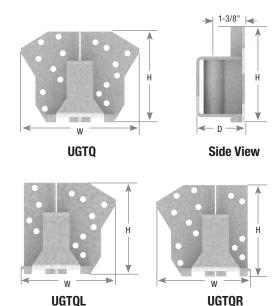
Features and Benefits:

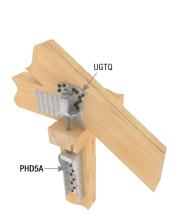
- UGTQs may be installed as a single connector or in pairs
- May be installed elevated from top plate
- Can be installed on trusses and beams with top chord slopes up to 8/12
- May be used with holdown device, bearing plate or embedded/epoxy rod

Materials: 10 gauge **Finish:** G90 galvanizing

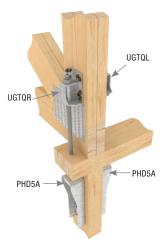
Installation:

- Use all specified fasteners.
- MiTek's WS3 structural wood screws, 1/4" dia. x 3" long, are supplied with UGTQ tiedowns.
- Left and right connectors shall be installed as shown.
- UGTQL/R shall be installed a minimum 1/2" from the end of the supported member.





Typical UGTQ single installation with PHD5A



Typical UGTQL/R double installation with PHD5A



Typical UGTQR masonry installation (right shown)

			Dime	ensions	(in)	Min.			Fastener S	Schedul		DF/SP		
MiTek USP	Ref.	Steel				No. of	Qty of	Oty of Connecting Rod		Truss/Rafter ⁵		Allowable Loads (Lbs) ^{1,2,3,6}	Code	
Stock No.	No.	Gauge	W	Н	D	Plies ⁵	UGTQs	Qty	Туре	Qty	Type ⁴	Uplift 160%	Ref.	
UGTO	l	10	5-9/16	4-1/4	2-1/8	2	1	1	5/8" Rod	16	WS3	5175		
ourq		10	3-3/10	4-1/4	2-1/0		2	2	3/0 Hou	32	WOO	9690		
UGTQL		10	4-1/4	4-1/4	2-1/8	2	1	1	5/8" Rod	13	WS3	3070		
UUTUL		10	4-1/4	4-1/4	2-1/0		2	2	3/0 NUU	25	Woo	7175		
UGTOR		10	4-1/4	4-1/4	2-1/8	2	1	1	5/8" Rod	12	WS3	3070		
ourun		10	4-1/4	4-1/4	2-1/0		2	2	5/6 NUU	25	WSS	7175		

- 1) Allowable loads are for one UGTQ or UGTQL/R installed on one side of a 2-ply minimum truss/rafter (Qty of UGTQs listed as 1) or one UGTQ or UGTQL/R installed on each side of a 2-ply minimum truss/rafter (Qty of UGTQs listed as 2).
- 2) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
- 3) Designer must specify the connection from the connecting rod to the supporting structure.
- 4) MiTek's WS3 structural wood screws are 1/4" dia. x 3" long and are included with UGTQ connectors.
- 5) Truss/rafter plies shall be fastened together to act as a single unit.
- 6) Anchorage into concrete/masonry must be designed by a designer.