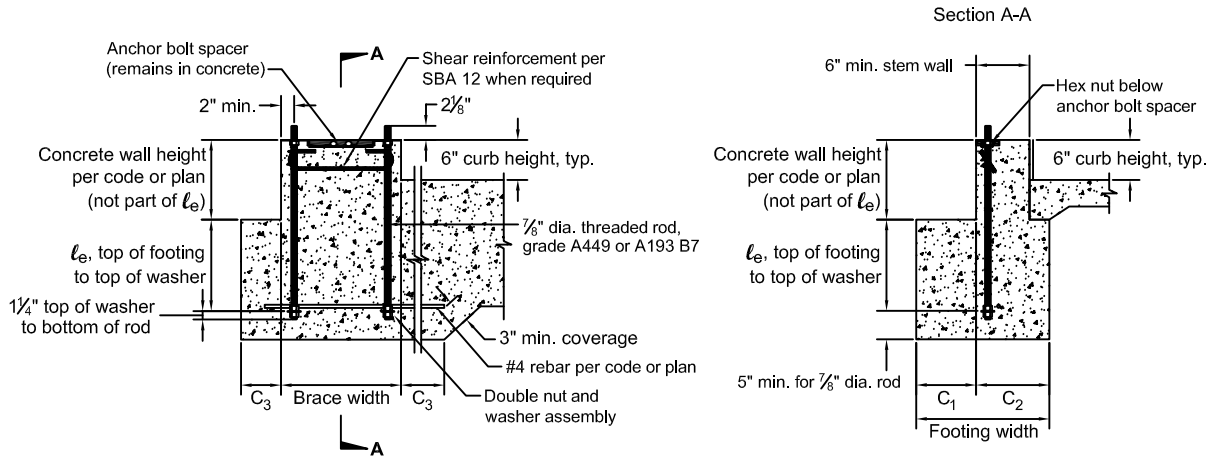


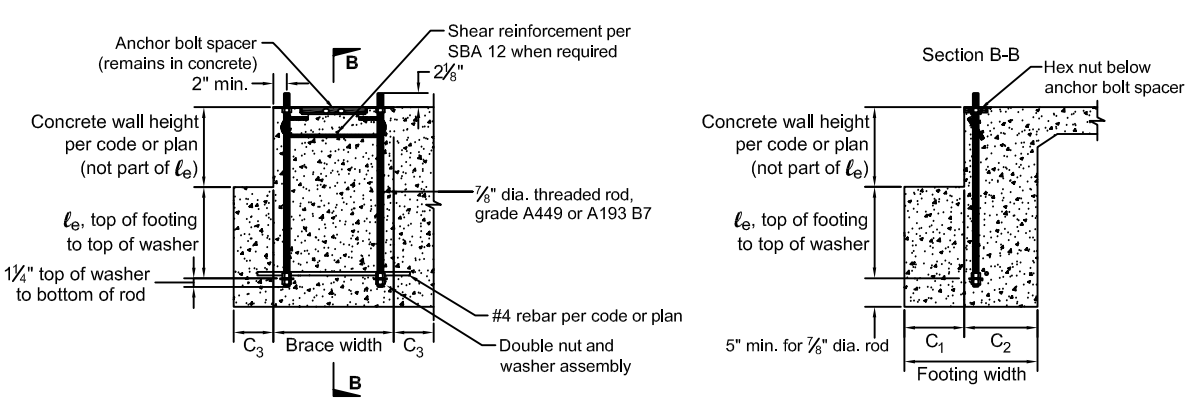
SBA1

ANCHORAGE FOR GARAGE CURB
For 12" and 18" Shear Braces



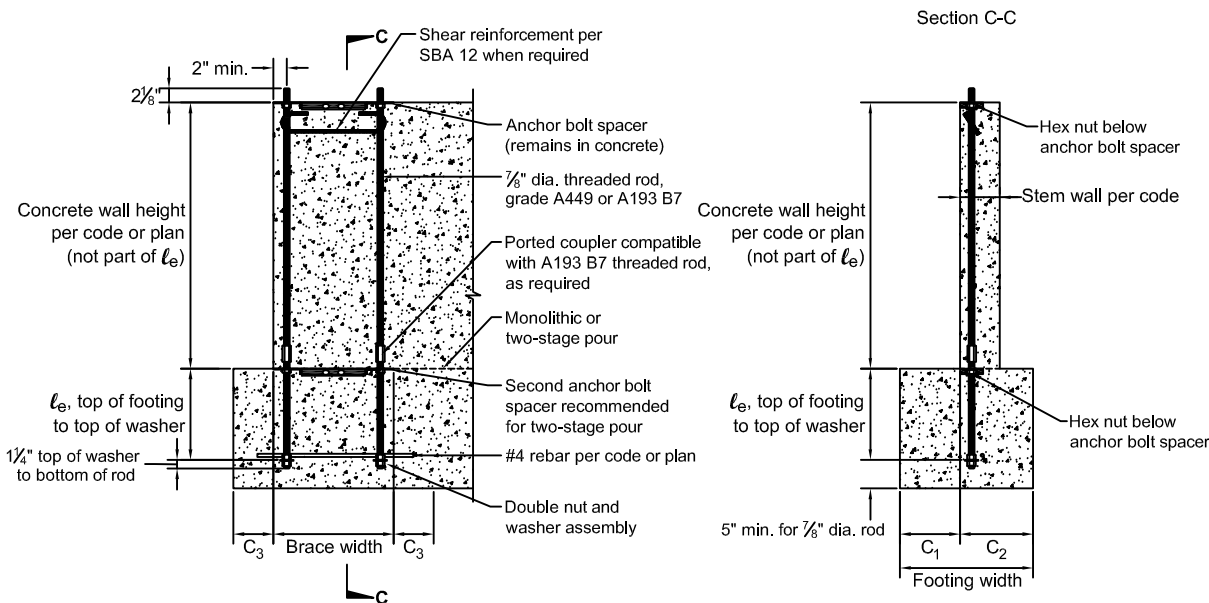
SBA2

ANCHORAGE FOR SLAB ON GRADE
For 12" and 18" Shear Braces



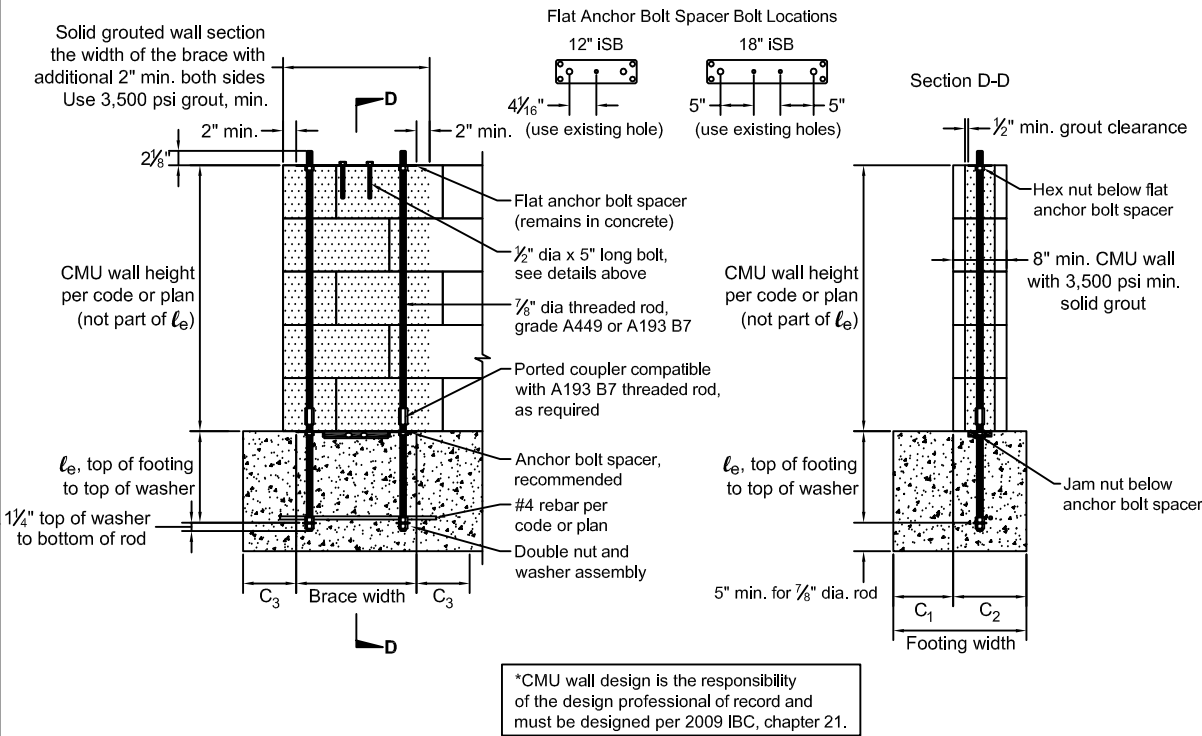
SBA3

ANCHORAGE FOR STEM WALL OR BASEMENT WALL
For 12" and 18" Shear Braces



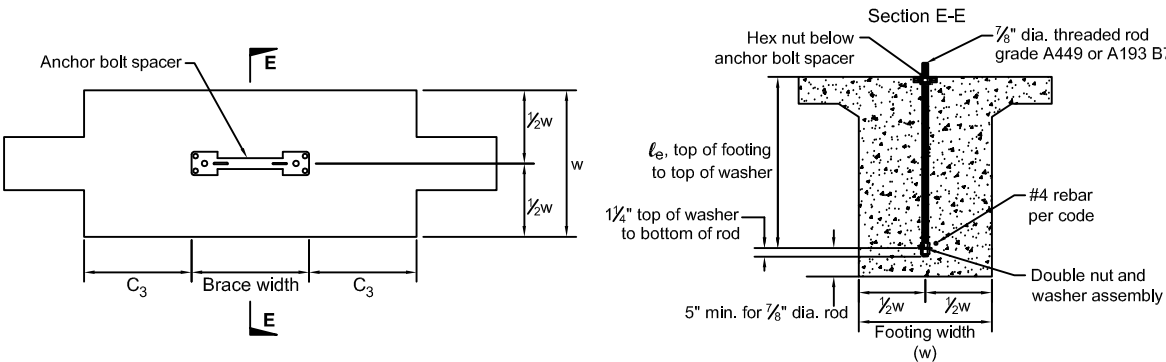
SBA4

ANCHORAGE FOR CONCRETE MASONRY WALL (FOR PERSCRIPTIVE USE ONLY)
For 12" and 18" Shear Braces



SBA 10

INTERIOR SLAB-on-GRADE
For 12" and 18" Shear Braces



Anchorage Embedment Depths and Footing Dimensions for 12" and 18" Wide Braces

Concrete Condition	Concrete Strength	iLevel® Shear Brace	Anchor Bolt Diameter	Seismic (SDC C-E)					Wind (SDC A-B)				
				Minimum Embedment and Footing Dimensions ⁽¹⁾					Minimum Embedment and Footing Dimensions ⁽¹⁾				
				Embedment Depth, ℓ_e	Footing Width	C ₁	C ₂	C ₃	Embedment Depth, ℓ_e	Footing Width	C ₁	C ₂	C ₃
Uncracked Concrete	2,500 psi	iSB 12x ₋	1/8"	8"	24"	10"	14"	10"	6"	19"	8"	11"	8"
	2,500 psi	iSB 18x ₋	1/8"	12"	36"	16"	20"	16"	8"	25"	11"	14"	11"
Cracked Concrete	2,500 psi	iSB 12x ₋	1/8"	9"	27"	12"	15"	12"	7"	23"	10"	13"	9"
	2,500 psi	iSB 18x ₋	1/8"	14"	41"	18"	23"	18"	10"	30"	14"	16"	13"

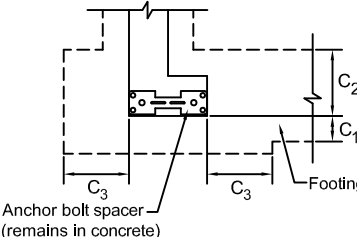
(1) C₁ and C₂ are measured from the edge of the widest section on the anchor bolt spacer. C₃ is measured from the end of the anchor bolt spacer. See adjacent detail.

General Notes

- iLevel® Shear Brace is manufactured and trademarked by iLevel®, a Weyerhaeuser NR Business, Boise, Idaho. 1-888-iLevel-8 (1-888-453-8358)
- The iLevel® Shear Brace is evaluated per ICC-ES Code Evaluation Report No. 2652. The iLevel® Shear Brace has R-values which are consistent with typical wood frame construction. They may be used as an alternate braced wall panel in accordance with IBC Section 2308.9.3, IRC Section 602.10, and ICC ES ESR-2652.
- Installation of the product shall be done in strict conformance to these drawings and the iLevel® Shear Brace Specifier's Guide. Modification to this product and associated systems or changes in the installation methods shown on these drawings and the Specifier's Guide should only be made by a qualified registered design professional. The performance of such modified products and altered installation procedures is the sole responsibility of the design professional of record. Designs are based on concrete compressive strength of $f'_c = 2500\text{psi}$.
- The contractor shall verify all dimensions, conditions, elevations, etc. prior to installation of any components for the iLevel® Shear Brace system. If any discrepancies are found, they shall be brought to the attention of the project architect, engineer of record, or building designer for clarification prior to construction.
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- This product is part of the overall lateral force resisting system of the structure. Design of the building's lateral force resisting system, including a complete load path necessary to transfer lateral forces from the structure to the ground, is the responsibility of the design professional of record.
- No special inspection required per IBC 1704.1 or 1705.3.1.
- iLevel® by Weyerhaeuser reserves the right to change specifications, designs and models without notice or liability for such changes.

Additional Notes for Anchorage

- Appropriate for use in areas governed by 2000, 2003, 2006, & 2009 IBC and IRC, or 1997 UBC
- Anchorage embedment is based on ACI 318 Appendix D
- Concrete assumptions:
- minimum f'_c of 2,500 psi; phi per ACI 318, Chapter 9
- ℓ_e is measured from the top of the washer to the top of the footing
- for expanded tables and additional information, see ICC ES ESR-2652
- ASTM A307 threaded rod may be substituted in applications where the holdown uplift at allowable design shear for wind is less than 13,400 lbs for 7/8" diameter anchor bolts.



iLevel®
by Weyerhaeuser

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www.iLevel.com

iLEVEL SHEAR BRACE

Anchorage Details for
12" and 18" widths

COMMENT

DATE

REV BY

PROJECT #:

SERVICE #:

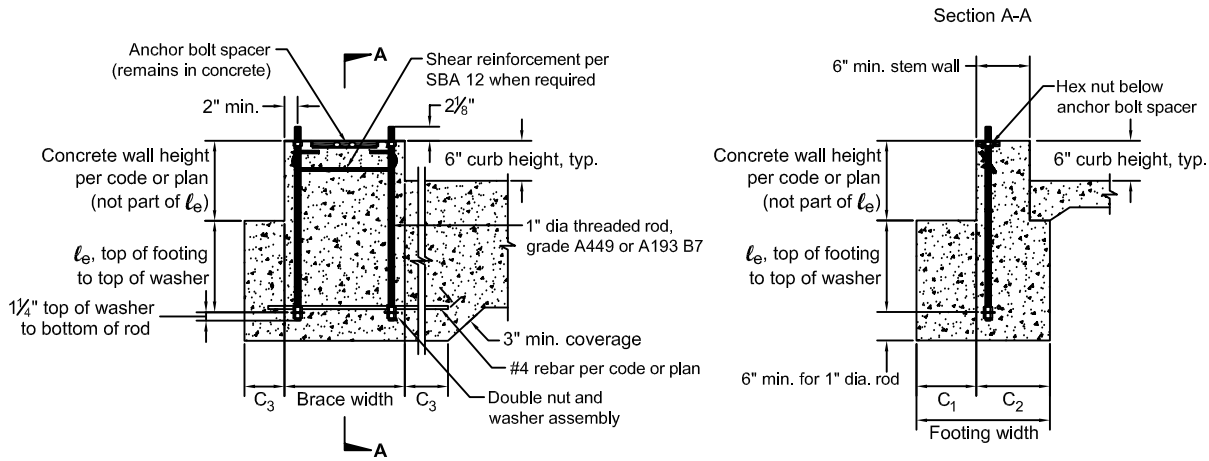
SHEET

1 of 3

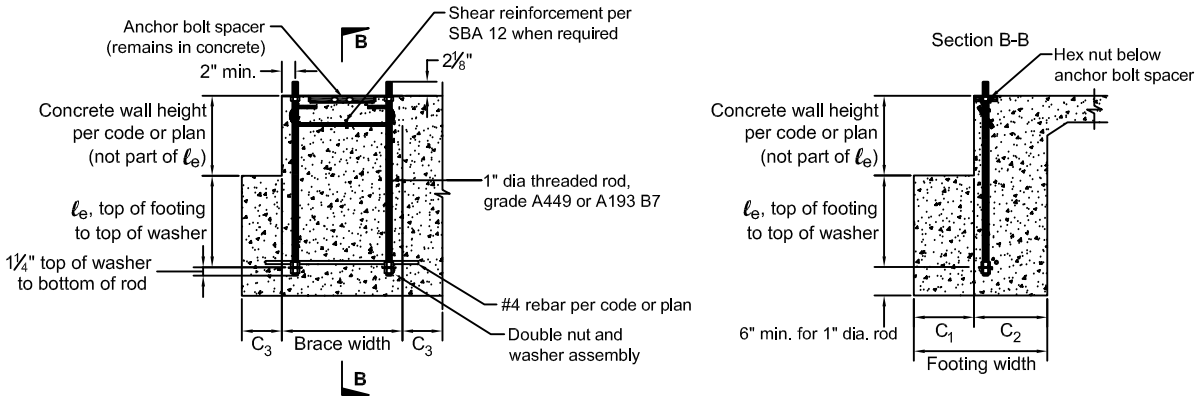
June 2011 Reorder TJ-8616



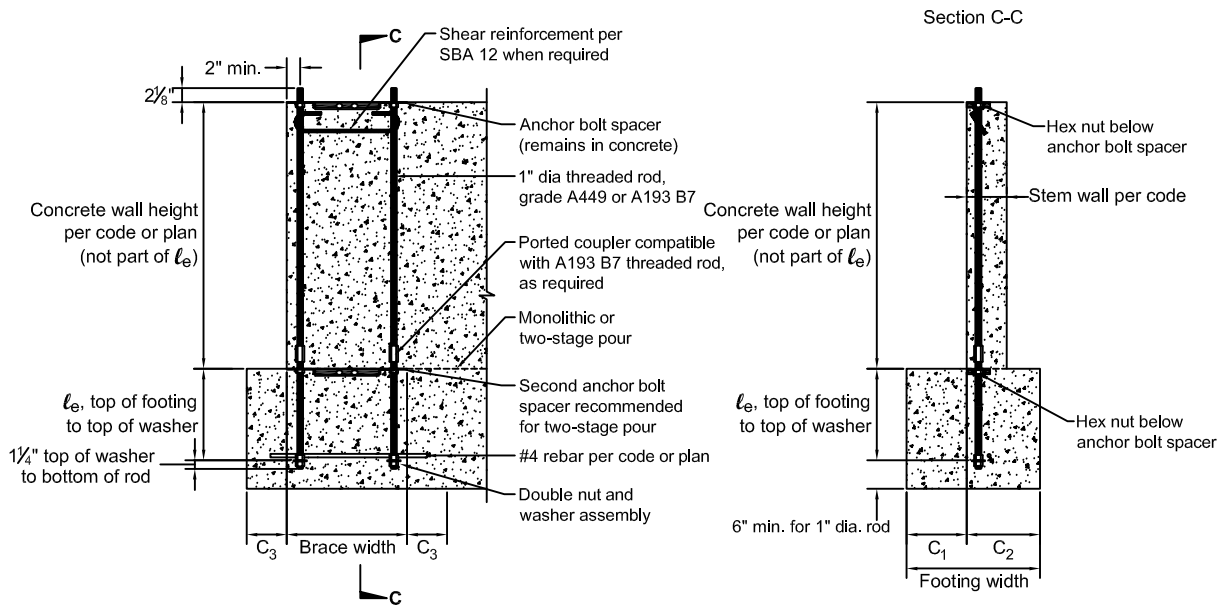
**ANCHORAGE FOR GARAGE CURB
For 24" Shear Braces**



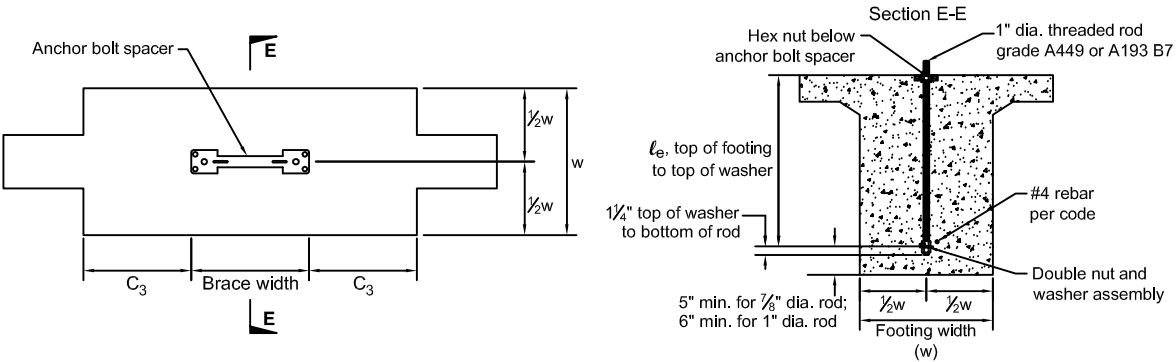
**ANCHORAGE FOR SLAB ON GRADE
For 24" Shear Braces**



**ANCHORAGE FOR STEM WALL OR BASEMENT WALL
For 24" Shear Braces**



**INTERIOR SLAB-on-GRADE
For 24" Shear Braces**



Anchorage Embedment Depths and Footing Dimensions for 24" Wide Braces

Concrete Condition	Concrete Strength	iLevel® Shear Brace	Anchor Bolt Diameter	Seismic (SDC C-E)					Wind (SDC A-B)				
				Minimum Embedment and Footing Dimensions ⁽¹⁾					Minimum Embedment and Footing Dimensions ⁽¹⁾				
				Embedment Depth, ℓ_e	Footing Width	C ₁	C ₂	C ₃	Embedment Depth, ℓ_e	Footing Width	C ₁	C ₂	C ₃
Uncracked Concrete	2,500 psi	iSB 24x_	1"	13"	40"	18"	22"	18"	11"	33"	14"	19"	14"
Cracked Concrete	2,500 psi	iSB 24x_	1"	15"	46"	21"	25"	21"	12"	37"	17"	20"	17"

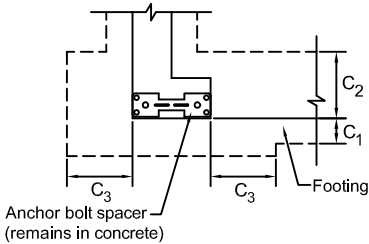
(1) C₁ and C₂ are measured from the edge of the widest section on the anchor bolt spacer. C₃ is measured from the end of the anchor bolt spacer. See adjacent detail.

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- The iLevel® Shear Brace is evaluated per ICC-ES Code Evaluation Report No. 2652. The iLevel® Shear Brace has R-values which are consistent with typical wood frame construction. They may be used as an alternate braced wall panel in accordance with IBC Section 2308.9.3, IRC Section 602.10, and ICC ES ESR-2652.
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- This product is part of the overall lateral force resisting system of the structure. Design of the building's lateral force resisting system, including a complete load path necessary to transfer lateral forces from the structure to the ground, is the responsibility of the design professional of record.
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Additional Notes for Anchorage

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- Anchorage embedment is based on ACI 318 Appendix D
- Concrete assumptions:
 - minimum f_c of 2,500 psi; phi per ACI 318, Chapter 9
 - ℓ_e is measured from the top of the washer to the top of the footing
- for expanded tables and additional information, see ICC ES ESR-2652
- ASTM A307 threaded rod may be substituted in applications where the holdown uplift at allowable design shear for wind is less than 17,575 lbs for 1" diameter anchor bolts.



COMMENT

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SERVICE #:

SHEET

2 of 3

iLEVEL SHEAR BRACE
Anchorage Details for
24" widths

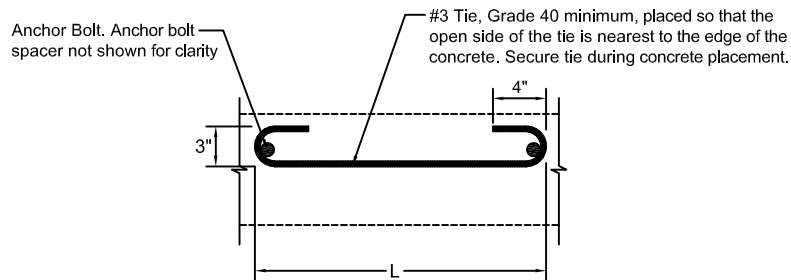
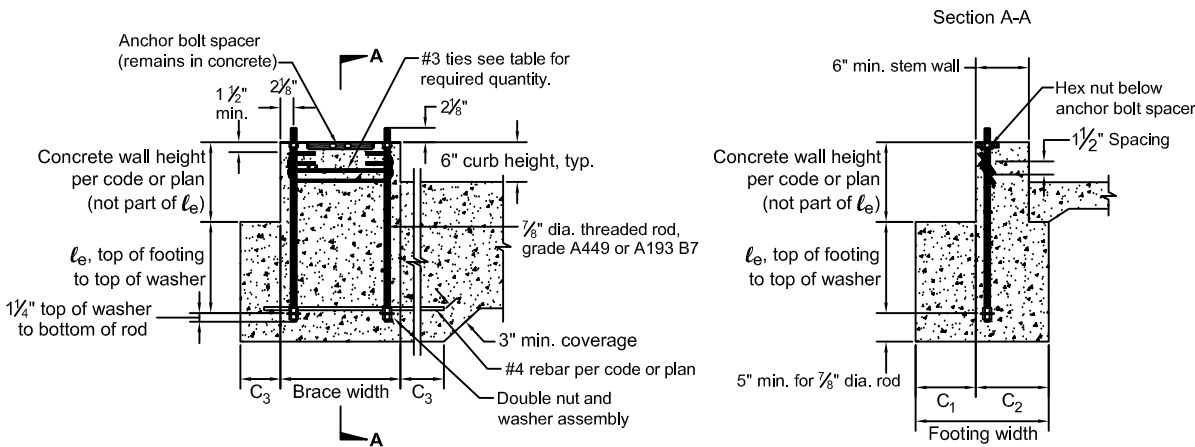


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SBA 12

ANCHORAGE SHEAR REINFORCEMENT FOR 12" AND 18" WIDE BRACES

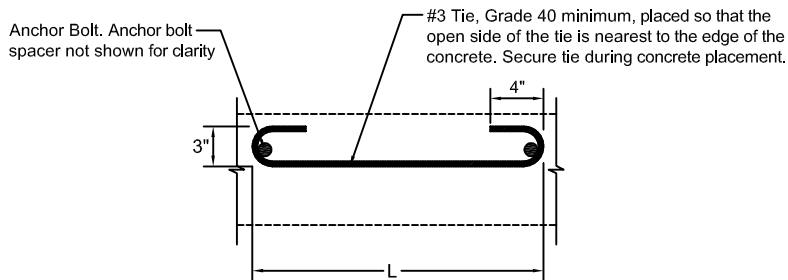
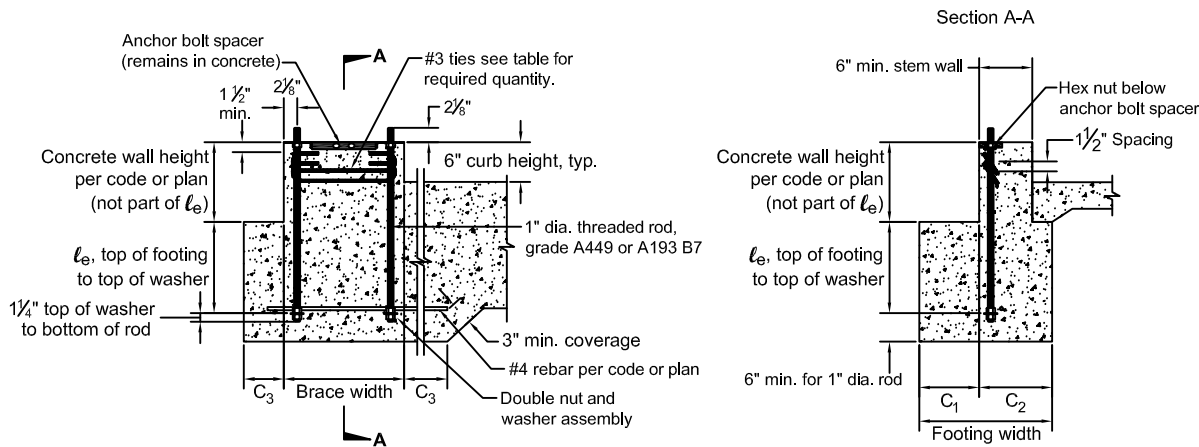


iLevel® Shear Brace	Seismic (SDC C-E) / Wind Design (SDC A - B)		
	L	Minimum Total Length Of Rebar Required	Required Shear Reinforcement ⁽¹⁾
iSB 12x_	-	-	None
iSB 18x_	16 1/8"	26 5/16"	One #3 Tie

(1) Shear reinforcement in addition to the anchor bolt spacer.

SBA 13

ANCHORAGE SHEAR REINFORCEMENT FOR 24" WIDE BRACES

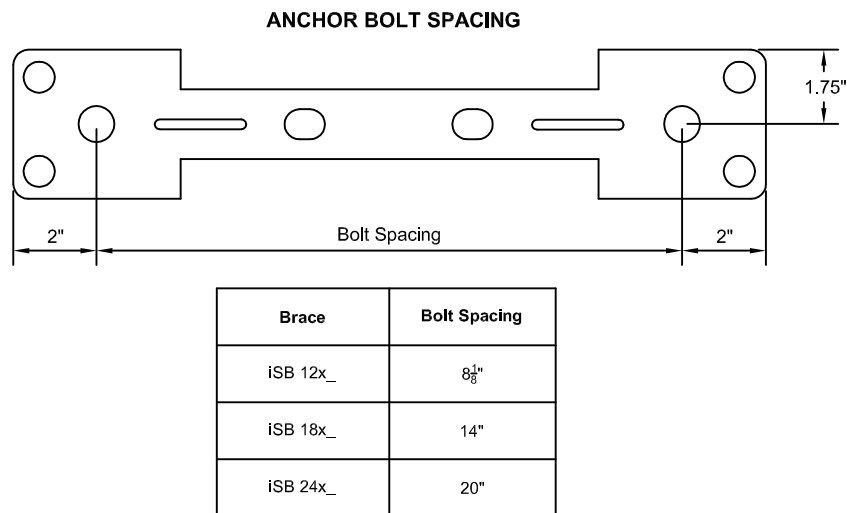


iLevel® Shear Brace	Seismic (SDC C-E) / Wind Design (SDC A - B)		
	L	Minimum Total Length Of Rebar Required	Required Shear Reinforcement ⁽¹⁾
iSB 24x_	22 1/4"	32 1/2"	Two #3 Ties

(1) Shear reinforcement in addition to the anchor bolt spacer.

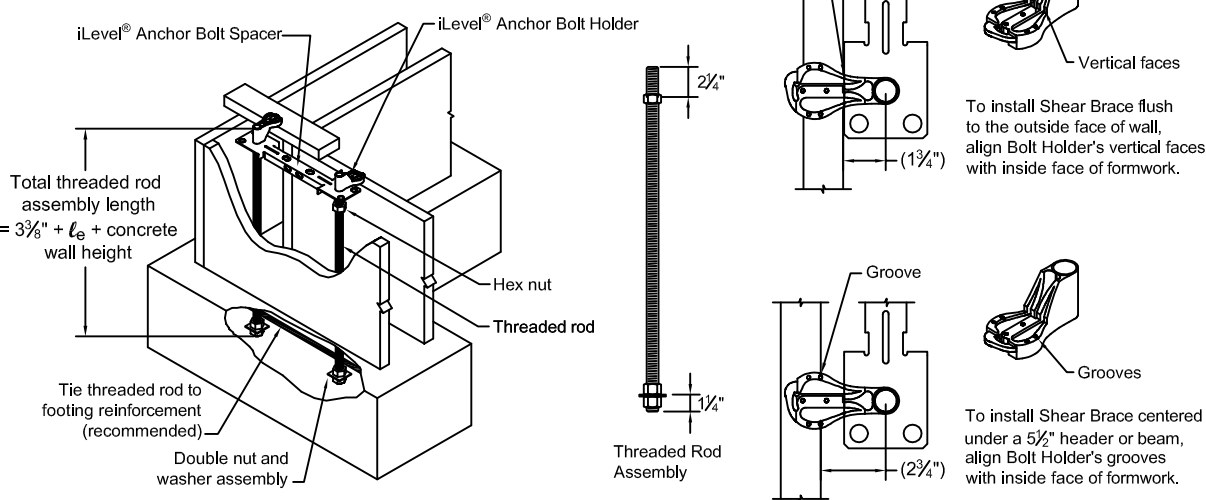
SBA8

ANCHOR BOLT SPACER



SBA9

ANCHORAGE BOLT INSTALLATION



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