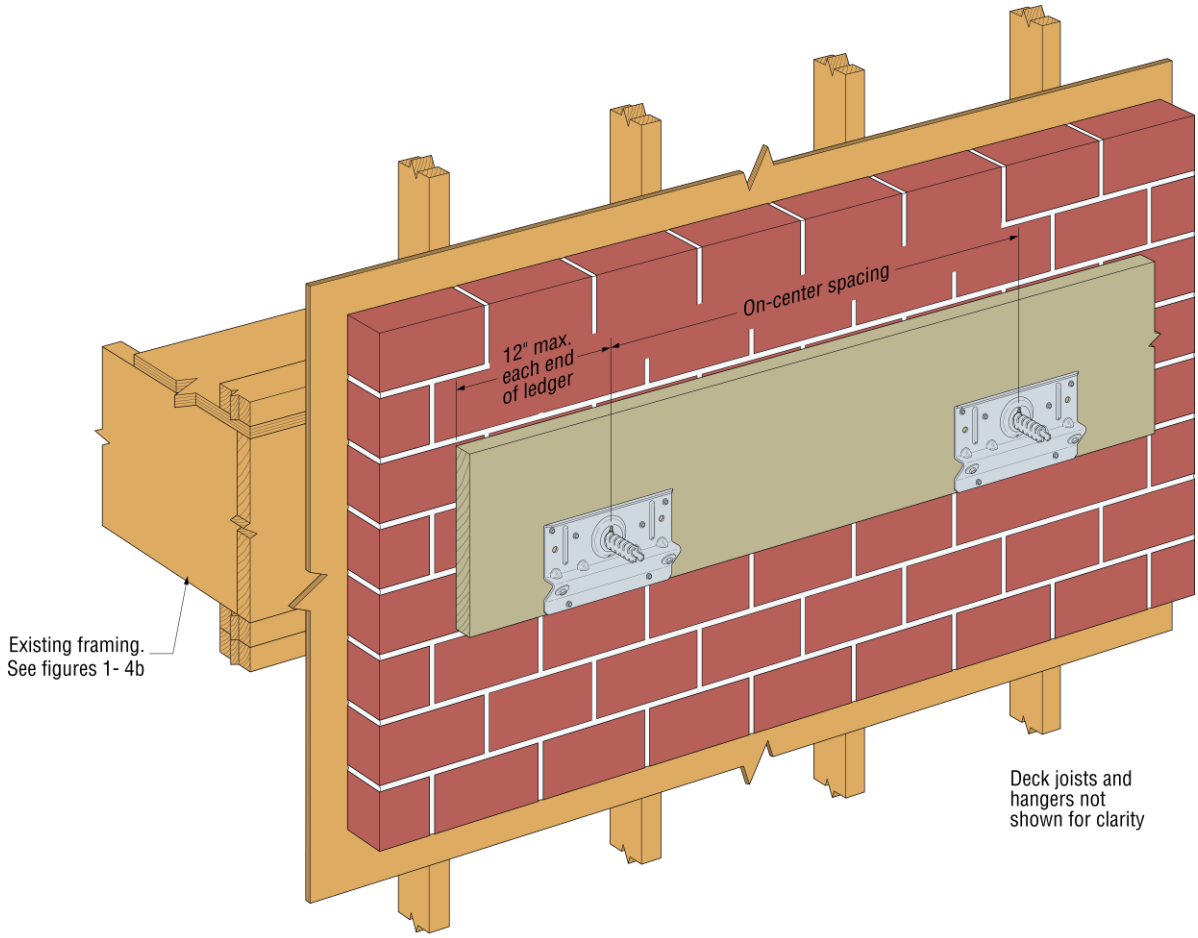
July 12, 2019

Re: Prescriptive spacing for the BVLZ

To Whom It May Concern:

The following tables provide maximum on-center spacing requirements for the BVLZ when installed on existing brick veneer construction that meets the minimum framing requirements of the IRC.



BVLZ Prescriptive Spacing

Simpson Strong-Tie Company Inc. 5956 W. Las Positas Boulevard Pleasanton, CA 94588 Phone: 925.560.9000 Fax: 925.847.1605 www.strongtie.com

Table 1 provides the maximum on-center spacing for the BVLZ when the interior structural framing meets IRC requirements. See Figure 1 below the table for additional information on IRC requirements. Maximum on-center spacing of the BVLZ is listed. Decrease the on-center spacing when necessary to accommodate deck joist spacing.

Table 1: Prescriptive Spacing for the BVLZ

Rim Board Species	Loading	Gap (in.)	Rim	Maximum Deck Joist Span			
				Up to 6 ft.	Up to 8 ft.	Up to 10 ft.	Up to 12 ft.
				On-Center Spacing of BVLZ (in.)			
DF	40 psf Live and 10 psf Dead	4.75	2x10	40	30	24	-
			2x12	40	30	24	20
		5.5	2x10	40	30	-	-
			2x12	40	30	24	-
		6.25	2x10	40	30	-	-
			2x12	40	30	24	-
	60 psf Live and 10 psf Dead	4.75	2x10	29	-	-	-
			2x12	29	22	-	-
		5.5	2x10	29	-	-	-
			2x12	29	22	-	-
		6.25	2x10	-	-	-	-
			2x12	29	-	-	-
			2x12	29	-	-	-
SP	40 psf Live and 10 psf Dead	4.75	2x10	36	27	22	-
			2x12	36	27	22	18
		5.5	2x10	36	27	22	-
			2x12	36	27	22	18
		6.25	2x10	36	27	-	-
			2x12	36	27	22	-
	60 psf Live and 10 psf Dead	4.75	2x10	26	20	-	-
			2x12	26	20	16	-
		5.5	2x10	26	-	-	-
			2x12	26	20	-	-
		6.25	2x10	26	-	-	-
			2x12	26	20	-	-

1. See Figure 1 for minimum framing and IRC fastening requirements.
2. Tabulated spacings are applicable to both OSB and plywood (minimum specific gravity of 0.5) interior floor sheathing with 5/8" minimum thickness. For maximum spacing with other sheathing materials, contact Simpson Strong-Tie.
3. A single 2x deck ledger is required. Double 2x and wider solid ledgers are not permitted.
4. For rim boards larger than 2x12, use 2x12 solutions.
5. Spacings for 2x sawn lumber rim board are applicable to $1^1/_2$"-wide structural composite lumber rim board with equivalent specific gravity.
6. The BVLZ is load rated for downloads only. Support for lateral and uplift loads must be addressed by other means. See technical bulletin T-C-DECKLAT at strongtie.com for more information on lateral loads perpendicular to the wall.
7. A wet-service factor has been applied to BVLZ connection to deck ledger.
8. Weatherproof ledger as required by code.
9. Fasteners supplied are Simpson Strong-Tie® Strong Drive® SD Connector screws and Strong-Drive SDWH Timber-Hex screws.
10. See installation guide T-C-BVLZINSTL for additional installation instructions and more information.
11. If framing conditions are outside of these parameters, this table does not apply. See Table 3 and Table 4, if applicable, for additional solutions. For an engineered design, see Simpson Strong-Tie® *Wood Construction Connectors* catalog C-C-2019.

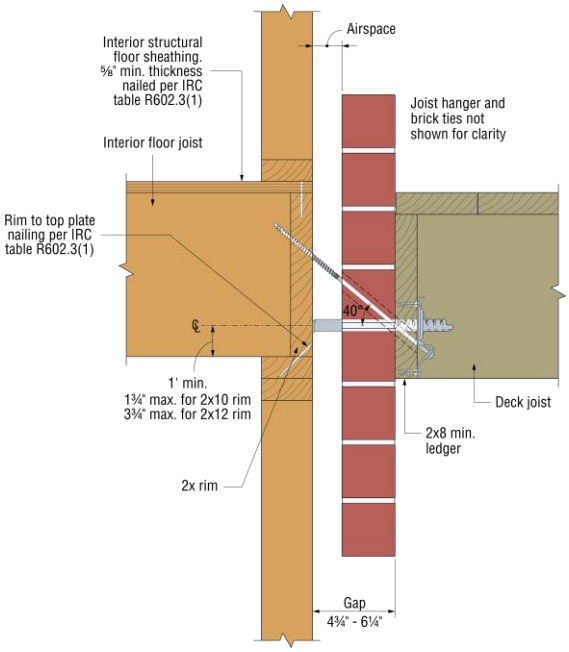


Figure 1

Simpson Strong-Tie Company Inc. 5956 W. Las Positas Boulevard Pleasanton, CA 94588 Phone: 925.560.9000 Fax: 925.847.1605 www.strongtie.com

Table 2 provides the maximum on-center spacing for the BVLZ when the interior structural framing meets IRC requirements and wood structural panel (WSP) wall sheathing is present on the exterior of the wall. See Figure 2 below the table for additional information on IRC requirements. Maximum on-center spacing of the BVLZ is listed. Decrease the on-center spacing when necessary to accommodate deck joist spacing.

Table 2: Prescriptive Spacing for the BVLZ with WSP Wall Sheathing

Rim Board Species	Loading	Gap (in.)	Rim	Maximum Deck Joist Span			
				Up to 6 ft.	Up to 8 ft.	Up to 10 ft.	Up to 12 ft.
				On-Center Spacing of BVLZ (in.)			
DF with WSP wall sheathing	40 psf Live and 10 psf Dead	4.25	2x10	33	25	20	-
			2x12	33	25	20	16
		5	2x10	33	25	-	-
			2x12	33	25	20	-
		5.75	2x10	33	25	-	-
			2x12	33	25	20	-
	60 psf Live and 10 psf Dead	4.25	2x10	23	-	-	-
			2x12	23	18	-	-
		5	2x10	23	-	-	-
			2x12	23	18	-	-
		5.75	2x10	-	-	-	-
			2x12	23	-	-	-
SP with WSP wall sheathing	40 psf Live and 10 psf Dead	4.25	2x10	33	25	20	-
			2x12	33	25	20	16
		5	2x10	33	25	20	-
			2x12	33	25	20	16
		5.75	2x10	33	25	-	-
			2x12	33	25	20	-
	60 psf Live and 10 psf Dead	4.25	2x10	23	18	-	-
			2x12	23	18	-	-
		5	2x10	23	-	-	-
			2x12	23	18	-	-
		5.75	2x10	23	-	-	-
			2x12	23	18	-	-

1. See Figure 2 for minimum framing and IRC fastening requirements.
2. Tabulated spacings are applicable to both OSB and plywood (minimum specific gravity of 0.5) interior floor sheathing with 5/8" minimum thickness. For maximum spacing with other sheathing materials, contact Simpson Strong-Tie.
3. A single 2x deck ledger is required. Double 2x and wider solid ledgers are not permitted.
4. For rim boards larger than 2x12, use 2x12 solutions.
5. Spacings for 2x sawn lumber rim board are applicable to $1^1/_2$"-wide structural composite lumber rim board with equivalent specific gravity.
6. The BVLZ is load rated for downloads only. Support for lateral and uplift loads must be addressed by other means. See technical bulletin T-C-DECKLAT at strongtie.com for more information on lateral loads perpendicular to the wall.
7. A wet-service factor has been applied to BVLZ connection to deck ledger.
8. Weatherproof ledger as required by code.
9. Fasteners supplied are Simpson Strong-Tie® Strong Drive® SD Connector screws and Strong-Drive SDWH Timber-Hex screws.
10. See installation guide T-C-BVLZINSTL for additional installation instructions and more information.
11. If framing conditions are outside of these parameters, this table does not apply. See Table 3 and Table 4, if applicable, for additional solutions. For an engineered design, see Simpson Strong-Tie® *Wood Construction Connectors* catalog C-C-2019.

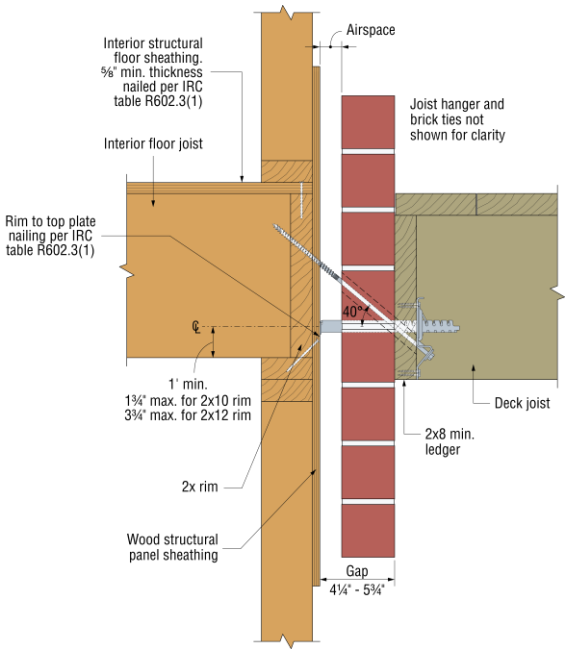


Figure 2

Simpson Strong-Tie Company Inc. 5956 W. Las Positas Boulevard Pleasanton, CA 94588 Phone: 925.560.9000 Fax: 925.847.1605 www.strongtie.com

Table 3 provides the maximum on-center spacing for the BVLZ when the interior structural framing meets IRC requirements and the rim board is reinforced with A34 angles as shown in Figures 3a and 3b. See Figures 3a and 3b below the table for additional information on IRC requirements and reinforcing of the rim. Maximum on-center spacing of the BVLZ is listed. Decrease the on-center spacing when necessary to accommodate deck joist spacing.

Table 3: Prescriptive Spacing for the BVLZ with Reinforced Interior Floor Framing

Rim Board Species	Loading	Gap (in.)	Rim	Maximum Deck Joist Span						
				Up to 6 ft.	Up to 8 ft.	Up to 10 ft.	Up to 12 ft.	Up to 14 ft.	Up to 16 ft.	Up to 18 ft.
				On-Center Spacing of BVLZ (in.)						
Reinforced DF	40 psf Live and 10 psf Dead	4.75	2x10	40	30	24	20	17	15	13
			2x12	40	30	24	20	17	15	13
		5.5	2x10	40	30	24	20	17	15	-
			2x12	40	30	24	20	17	15	13
		6.25	2x10	40	30	24	20	17	-	-
			2x12	40	30	24	20	17	15	13
	60 psf Live and 10 psf Dead	4.75	2x10	29	22	17	14	-	-	-
			2x12	29	22	17	14	12	-	-
		5.5	2x10	29	22	17	14	-	-	-
			2x12	29	22	17	14	12	-	-
		6.25	2x10	29	22	17	-	-	-	-
			2x12	29	22	17	14	-	-	-
Reinforced SP	40 psf Live and 10 psf Dead	4.75	2x10	36	27	22	18	16	14	12
			2x12	36	27	22	18	16	14	12
		5.5	2x10	36	27	22	18	16	14	-
			2x12	36	27	22	18	16	14	12
		6.25	2x10	36	27	22	18	16	-	-
			2x12	36	27	22	18	16	14	12
	60 psf Live and 10 psf Dead	4.75	2x10	26	20	16	13	-	-	-
			2x12	26	20	16	13	-	-	-
		5.5	2x10	26	20	16	13	-	-	-
			2x12	26	20	16	13	-	-	-
		6.25	2x10	26	20	16	-	-	-	-
			2x12	26	20	16	13	-	-	-

1. See Figures 3a and 3b for minimum framing, IRC fastening, and rim board reinforcing requirements.
2. Tabulated spacings are applicable to both OSB and plywood (minimum specific gravity of 0.5) interior floor sheathing with 5/8" minimum thickness. For maximum spacing with other sheathing materials, contact Simpson Strong-Tie.
3. A single 2x deck ledger is required. Double 2x and wider solid ledgers are not permitted.
4. For rim boards larger than 2x12, use 2x12 solutions.
5. Spacings for 2x sawn lumber rim board are applicable to 1 1/2"-wide structural composite lumber rim board with equivalent specific gravity.
6. The BVLZ is load rated for downloads only. Support for lateral and uplift loads must be addressed by other means. See technical bulletin T-C-DECKLAT at strongtie.com for more information on lateral loads perpendicular to the wall.
7. A wet-service factor has been applied to BVLZ connection to deck ledger.
8. Weatherproof ledger as required by code.
9. Fasteners supplied are Simpson Strong-Tie® Strong-Drive® SD Connector screws and Strong-Drive SDWH Timber-Hex HDG screws.
10. See installation guide T-C-BVLZINSTL for additional installation instructions and more information.
11. If framing conditions are outside of these parameters, the table does not apply. For an engineered design, see Simpson Strong-Tie® *Wood Construction Connectors* catalog C-C-2019.

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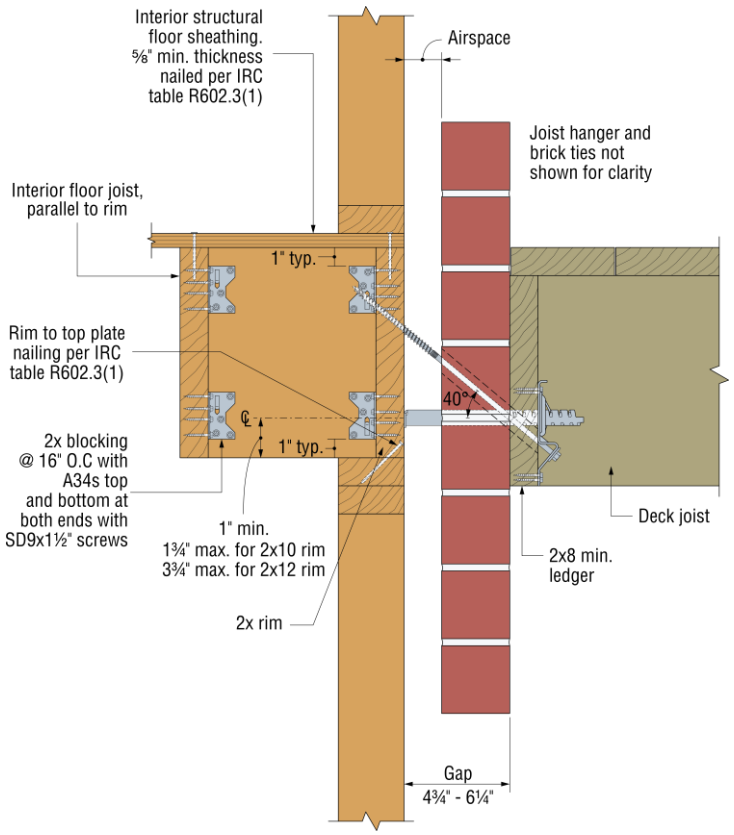

Figure 3a

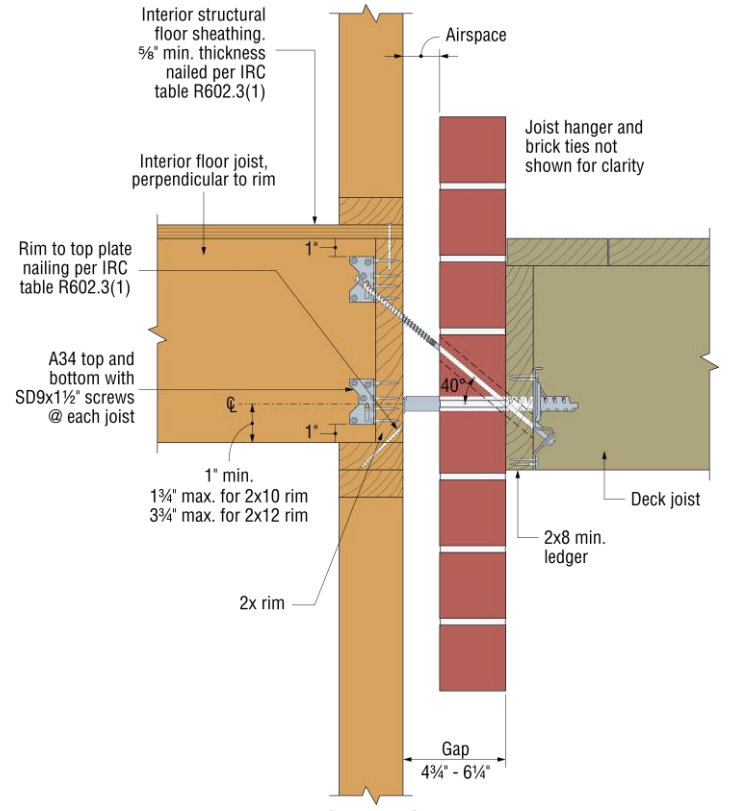

Figure 3b

Simpson Strong-Tie Company Inc. 5956 W. Las Positas Boulevard Pleasanton, CA 94588 Phone: 925.560.9000 Fax: 925.847.1605 www.strongtie.com

Table 4 provides the maximum on-center spacing for the BVLZ when the interior structural framing meets IRC requirements, the rim is reinforced with A34 angles as shown in Figures 4a and 4b, and wood structural panel (WSP) wall sheathing is present on the exterior of the wall. See Figures 4a and 4b below the table for additional information on IRC requirements and reinforcing of the rim. Maximum on-center spacing of the BVLZ is listed. Decrease the on-center spacing when necessary to accommodate deck joist spacing.

Table 4: Prescriptive Spacing for the BVLZ with Reinforced Interior Floor Framing and WSP Wall Sheathing

Rim Board Species	Loading	Gap (in.)	Rim	Maximum Deck Joist Span					
				Up to 6 ft.	Up to 8 ft.	Up to 10 ft.	Up to 12 ft.	Up to 14 ft.	Up to 16 ft.
				On-Center Spacing of BVLZ (in.)					
Reinforced DF with WSP wall sheathing	40 psf Live and 10 psf Dead	4.25	2x10	33	25	20	16	14	12
			2x12	33	25	20	16	14	12
		5	2x10	33	25	20	16	14	12
			2x12	33	25	20	16	14	12
		5.75	2x10	33	25	20	16	14	-
			2x12	33	25	20	16	14	12
	60 psf Live and 10 psf Dead	4.25	2x10	23	18	14	-	-	-
			2x12	23	18	14	-	-	-
		5	2x10	23	18	14	-	-	-
			2x12	23	18	14	-	-	-
		5.75	2x10	23	18	14	-	-	-
			2x12	23	18	14	-	-	-
Reinforced SP with WSP wall sheathing	40 psf Live and 10 psf Dead	4.25	2x10	33	25	20	16	14	12
			2x12	33	25	20	16	14	12
		5	2x10	33	25	20	16	14	12
			2x12	33	25	20	16	14	12
		5.75	2x10	33	25	20	16	14	-
			2x12	33	25	20	16	14	12
	60 psf Live and 10 psf Dead	4.25	2x10	23	18	14	-	-	-
			2x12	23	18	14	-	-	-
		5	2x10	23	18	14	-	-	-
			2x12	23	18	14	-	-	-
		5.75	2x10	23	18	14	-	-	-
			2x12	23	18	14	-	-	-

1. See Figures 4a and 4b for minimum framing, IRC fastening, and rim board reinforcing requirements.
2. Tabulated spacings are applicable to both OSB and plywood (minimum specific gravity of 0.5) interior floor sheathing with 5/8" minimum thickness. For maximum spacing with other sheathing materials, contact Simpson Strong-Tie.
3. A single 2x deck ledger is required. Double 2x and wider solid ledgers are not permitted.
4. For rim boards larger than 2x12, use 2x12 solutions.
5. Spacings for 2x sawn lumber rim board are applicable to 1 1/2"-wide structural composite lumber rim board with equivalent specific gravity.
6. The BVLZ is load rated for downloads only. Support for lateral and uplift loads must be addressed by other means. See technical bulletin T-C-DECKLAT at strongtie.com for more information on lateral loads perpendicular to the wall.
7. A wet-service factor has been applied to BVLZ connection to deck ledger.
8. Weatherproof ledger as required by code.
9. Fasteners supplied are Simpson Strong-Tie® Strong-Drive® SD Connector screws and Strong-Drive SDWH Timber-Hex HDG screws.
10. See installation guide T-C-BVLZINSTL for additional installation instructions and more information.
11. If framing conditions are outside of these parameters, the table does not apply. For an engineered design, see Simpson Strong-Tie® *Wood Construction Connectors* catalog C-C-2019.

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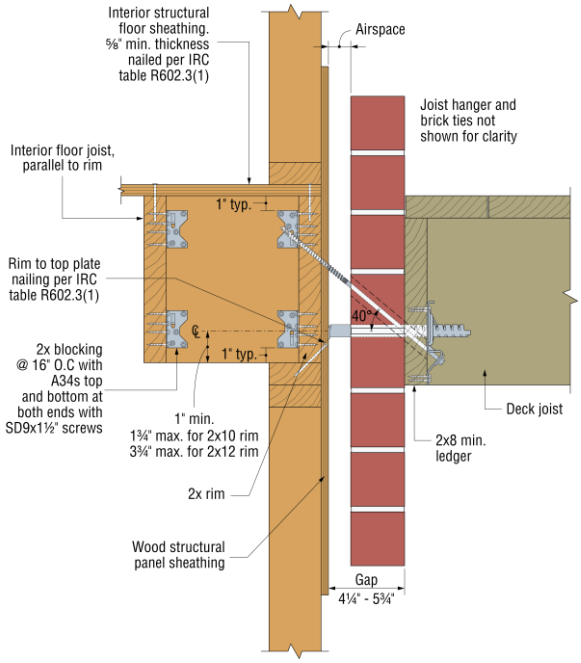

Figure 4a

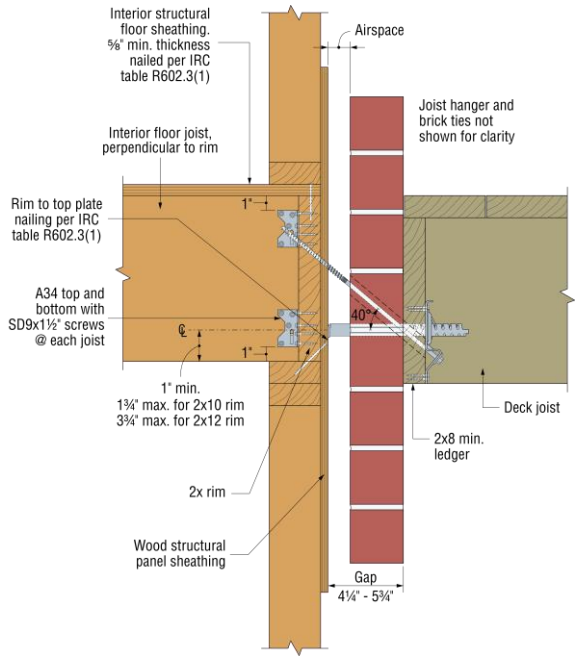

Figure 4b

The information in this letter is valid until **12/31/2020** when it will be re-evaluated by Simpson Strong-Tie. Please visit strongtie.com for additional pertinent information. If you have questions or need further assistance regarding this matter, please contact the Simpson Strong-Tie engineering department at 800.999.5099.

Sincerely,

SIMPSON STRONG-TIE COMPANY INC.

Simpson Strong-Tie Company Inc. 5956 W. Las Positas Boulevard Pleasanton, CA 94588 Phone: 925.560.9000 Fax: 925.847.1605 www.strongtie.com