

RECOMMENDED MOUNTING AND FASTENING GUIDE

ANCHORAGE

Proper anchorage of guardrail posts and rails to a sound and structurally adequate supporting structure is essential for a guardrail system. These elements must be as secure and ridged as possible. A structurally adequate supporting structure is as important as the anchorage elements themselves. One without the other compromises the load carrying capacity and performance of the guardrail system. The responsibility to provide for proper support conditions is beyond the scope and control of the guardrail system designer and/or manufacturer/provider.

IMPORTANT

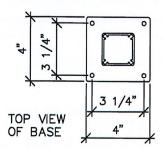
Proper layout, design and installation of a deck railing are critical to the performance and strength of the deck railing. Failure to comply with proper layout, design and installation of a deck railing could result in serious injury or loss of life. This document is intended as a guide for designers, architects. Engineers and professional installers. If additional clarification is required, please consult a professional engineer to evaluate your specific circumstances, prior to starting your residential single-family deck railing project.





RECOMMENDED MOUNTING AND FASTENING TO WOOD

NO.1/NO.2 OR BETTER WOOD BLOCKING ANCHORAGE TO MAIN STRUCTURE AND MAIN STRUCTURE LOAD CAPACITY RESPONSIBILTY OF OTHERS



TO CENTER OF PERIMETER BOARD

OPTIONAL ISOLATION GASKET*

MIN. THREAD LENGTH EMBED. NOT INCLUDING TAPERED TIP

*OPTIONAL CLOSED CELL ISOLATION GASKET BETWEEN DISSIMILAR OR INCOMPATIBLE

POST SIZE	LAG SCREW DIAMETER	WOOD BLOCKING SPECIES	MIN THREAD LENGTHEMBEDMENT
2*	5/16"	DOUGLAS FIR	3"
		SPRUCE-PINE-FIR	3 1/2"
	3/8"	DOUGLAS FIR	2 1/2" L
		SPRUCE-PINE-FIR	3"
2 1/2"	5/16"	DOUGLAS FIR	4"
		SPRUCE-PINE-FIR	4 1/2"
	3/8"	DOUGLAS FIR	3 1/2"
		SPRUCE-PINE-FIR	4"

WOOD BLOCKING

(NOT INTENDED AS A WATER PROOFING ITEM)

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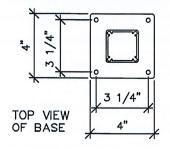
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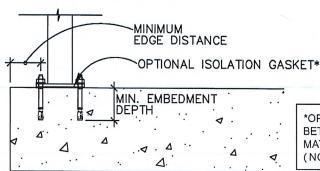
RECOMMENDED MOUNTING AND FASTENING TO CONCRETE

MAIN STRUCTURE LOAD CAPACITY RESPONSIBILTY OF OTHERS



POST SIZE	MIN. CONCRETE COMPRESSIVE STRENGTH	FASTENER TYPE	MIN. EDGE DISTANCE	MIN. EMBEDME
2"	4000 psi (27.6 MPa)	3/8"ø HILTI KWIK BOLT 3 EXPANSION ANCHOR	2 1/2"	3 1/2"
2 1/2"	4000 psi (27.6 MPa)	3/8"ø HILTI KWIK BOLT 3 EXPANSION ANCHOR	3 3/4"	3 1/2*

CONCRETE ANCHORS WITH EQUIVALENT OR BETTER ALLOWABLE TENSION AND SHEAR LOADS CAN BE SUBSTITUTED.



*OPTIONAL CLOSED CELL ISOLATION GASKET BETWEEN DISSIMILAR OR INCOMPATIBLE MATERIALS.

(NOT INTENDED AS A WATER PROOFING ITEM)

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FIGURE 3: ACCEPTABLE GUARDRAIL MOUNTING CONFIGURATIONS

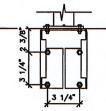




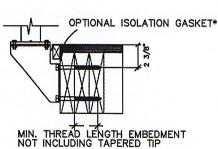
FASCIA (SIDE) MOUNTING DETAILS RECOMMENDED MOUNTING AND FASTENING TO WOOD

NO.1/NO.2 OR BETTER WOOD BLOCKING ANCHORAGE TO MAIN STRUCTURE AND MAIN STRUCTURE LOAD CAPACITY RESPONSIBILTY OF OTHERS

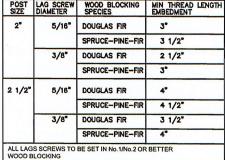
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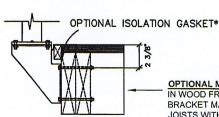


FRONT VIEW OF BWC FASCIA BRACKET



POST SIZE	LAG SCREW DIAMETER	WOOD BLOCKING SPECIES	MIN THREAD LENGTH EMBEDMENT
2"	5/16"	DOUGLAS FIR	3"
		SPRUCE-PINE-FIR	3 1/2"
	3/8"	DOUGLAS FIR	2 1/2"
		SPRUCE-PINE-FIR	3°
2 1/2"	5/16"	DOUGLAS FIR	4"
		SPRUCE-PINE-FIR	4 1/2"
	3/8"	DOUGLAS FIR	3 1/2"
	0.000	SPRUCE-PINE-FIR	4"





OPTIONAL MOUNTING METHOD:

IN WOOD FRAMING APPLICATIONS BWC FASCIA BRACKET MAY ALSO BE ATTACHED TO THE RIM JOISTS WITH THRU BOLTS AS INDICATED.

FASCIA (SIDE) MOUNTING DETAILS

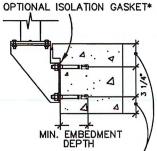
RECOMMENDED MOUNTING AND FASTENING TO CONCRETE

MAIN STRUCTURE LOAD CAPACITY RESPONSIBILTY OF OTHERS

BETWEEN DISSIMILAR OR INCOMPATIBLE

MATERIALS. (NOT INTENDED AS A WATER PROOFING ITEM)

*OPTIONAL CLOSED CELL ISOLATION GASKET



POST SIZE	MIN. CONCRETE COMPRESSIVE STRENGTH	FASTENER TYPE	MIN. EDGE DISTANCE	MIN, EMBEDMENT DEPTH
2*	4000 psi (27.6 MPa)	3/8"# HILTI KWIK BOLT 3 EXPANSION ANCHOR	2 1/2"	3 1/2"
2 1/2"	4000 pal (27.6 MPa)	3/8"# HILTI KWIK BOLT 3 EXPANSION ANCHOR	3 3/4"	3 1/2"

CONCRETE ANCHORS WITH EQUIVALENT OR BETTER ALLOWABLE TENSION AND SHEAR LOADS CAN BE SUBSTITUTED.

MIN. EDGE DISTANCE

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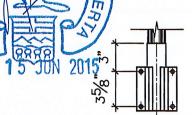
FIGURE 3: ACCEPTABLE GUARDRAIL MOUNTING CONFIGURATIONS



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FASCIA (SIDE) MOUNTING DETAILS RECOMMENDED MOUNTING AND FASTENING TO WOOD

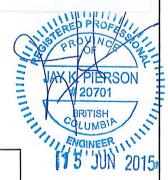
NO.1/NO.2 OR BETTER WOOD BLOCKING ANCHORAGE TO MAIN STRUCTURE DAND MAIN STRUCTURE LOAD CAPACITY RESPONSIBILTY OF OTHERS



FRONT VIEW OF BWC SLIM LINE FASCIA BRACKET

*OPTIONAL CLOSED CELL ISOLATION GASKET BETWEEN DISSIMILAR OR INCOMPATIBLE MATERIALS.

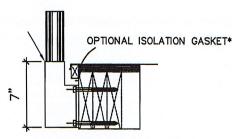
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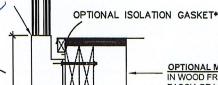
MOUNTING METHOD:

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> Ensure the top of the Slim Line Fascia Bracket is 1/4" above the top of the deck surface so that railing height is maintained.



MIN. THREAD LENGTH EMBEDMENT NOT INCLUDING TAPERED TIP

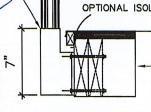


POST SIZE	LAG SCREW DIAMETER	WOOD BLOCKING SPECIES	MIN THREAD LENGTH EMBEDMENT
2"	5/16"	DOUGLAS FIR	3"
		SPRUCE-PINE-FIR	3 1/2"
	3/8"	DOUGLAS FIR	2 1/2"
		SPRUCE-PINE-FIR	3"
2 1/2"	5/16"	DOUGLAS FIR	4"
		SPRUCE-PINE-FIR	4 1/2"
	3/8"	DOUGLAS FIR	3 1/2"
		SPRUCE-PINE-FIR	4"

WOOD BLOCKING

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MOUNTING METHOD: Ensure the top of the Slim Line Fascia Bracket is 1/4" above the top of the deck surface so that railing height is maintained.



OPTIONAL MOUNTING METHOD:

IN WOOD FRAMING APPLICATIONS BWC SLIM LINE FASCIA BRACKET MAY ALSO BE ATTACHED TO THE RIM JOISTS WITH THRU BOLTS AS INDICATED.

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FASCIA (SIDE) MOUNTING DETAILS

PROX BECOMMENDED MOUNTING AND FASTENING TO CONCRETE

MAIN STRUCTURE LOAD CAPACITY RESPONSIBILTY OF OTHERS

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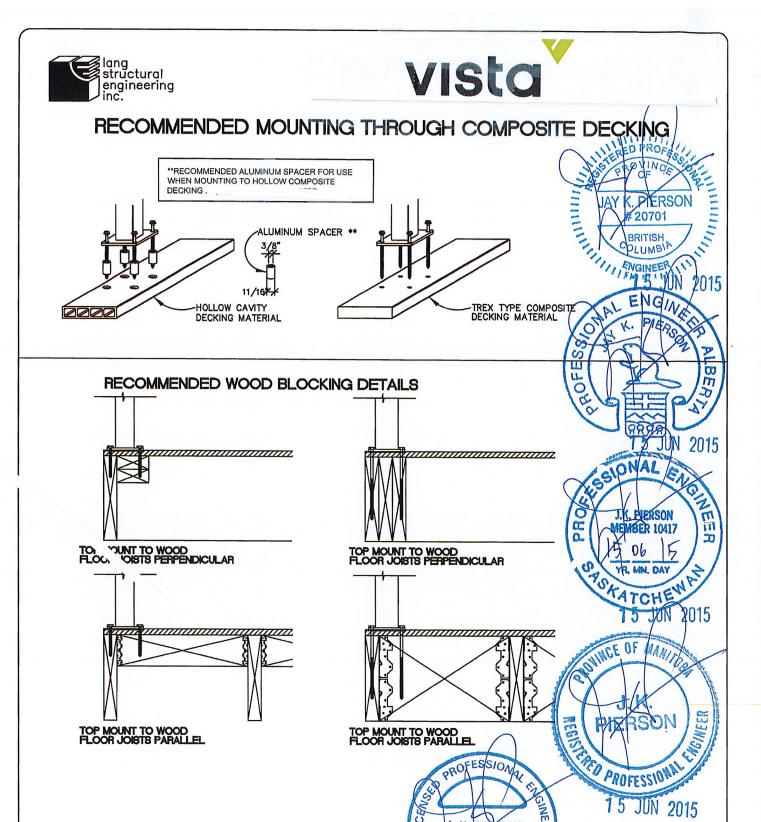
POST SIZE	MIN. CONCRETE COMPRESSIVE STRENGTH	FASTENER TYPE	MIN. EDGE DISTANCE	MIN. EMBEDMENT DEPTH
2"	4000 psi (27.6 MPa)	3/8"ø HILTI KWIK BOLT 3 EXPANSION ANCHOR	2 1/2"	3 1/2"
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CONCRETE ANCHORS WITH EQUIVALENT OR BETTER ALLOWABLE TENSION AND SHEAR LOADS CAN BE SUBSTITUTED.

> *OPTIONAL CLOSED CELL ISOLATION GASKET BETWEEN DISSIMILAR OR INCOMPATIBLE MATERIALS. (NOT INTENDED AS A WATER PROOFING ITEM)

MIN. EDGE DISTANCE

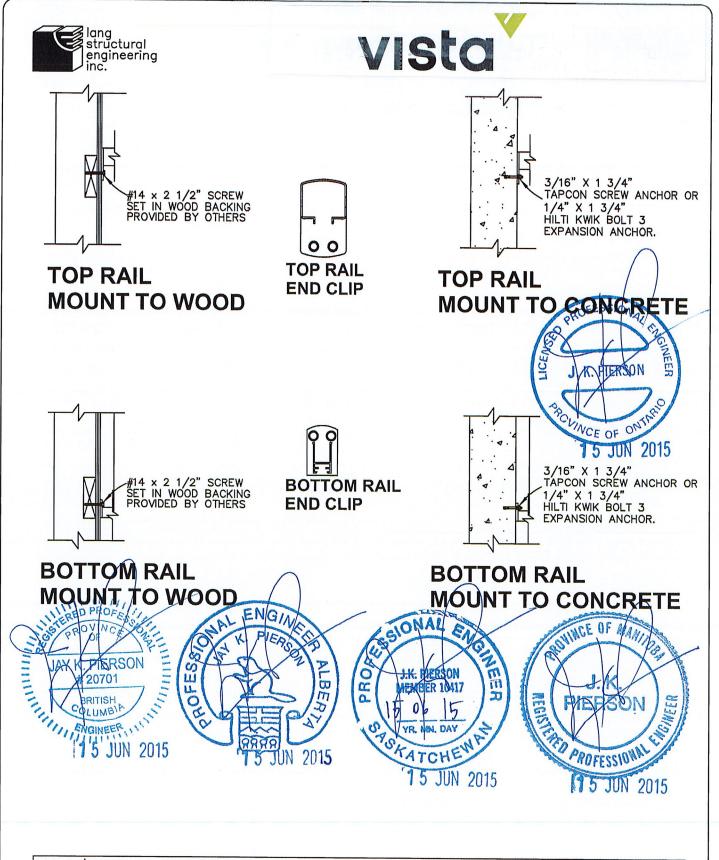
FIGURE 3: ACCEPTABLE GUARDRAIL MOUNTING CONFIGURATIONS



NO.1/NO.2 OR BETTER WOOD BLOCKING ANCHORAGE TO MAIN STRUCTURE AND MAIN STRUCTURE LOAD CAPACITY RESPONSIBILTY OF OTHERS

FIGURE 3continued: ACCEPTABLE GUARDRAIL MOUNTING CONFIGURATIONS

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NO.1/NO.2 OR BETTER WOOD BLOCKING ANCHORAGE TO MAIN STRUCTURE AND MAIN STRUCTURE LOAD CAPACITY RESPONSIBILTY OF OTHERS

FIGURE 3continued: ACCEPTABLE GUARDRAIL MOUNTING CONFIGURATIONS