

IT SERIES WITH VARIOUS HEADER APPLICATIONS

Model	Fasteners			Allowable Loads Header Type								
	Top	Face	Joist	Uplift (133)	Uplift (160)	LVL	PSL ¹	LSL ²	DF/SP	SPF	DF ³ I-Joist	Masonry
ITT Series	4-10dx1½	2-10dx1½	2-10dx1½	245	285	1235	1225	1435	1235	1065	1050	—
	4-10d	2-10d	2-10dx1½	245	285	1450	1300	1435	1615	1200	—	—
	4-16d	2-16d	2-10dx1½	245	285	1500	1535	1500	1750	1315	—	—
ITTM Series	3-Titen ⁴	2-Titen ⁴	2-10dx1½	225 ⁵	225 ⁵	—	—	—	—	—	—	1545 ⁶
MIT Series	4-10dx1½	2-10dx1½	2-10dx1½	240	290	2035	1500	1605	1950	1115	1230	—
	4-10d	2-10d	2-10dx1½	240	290	2335	2000	1605	2400	1665	—	—
	4-16d	2-16d	2-10dx1½	240	290	2650	2000	2115	2400	1665	—	—
HIT Series	4-16d	6-16d	2-10dx1½	240	290	2550	2050	2500	3050	1950	—	—

1. Loads, and may not be increased for short-term loading.
2. Uplift loads are based on Doug Fir, and have been increased 33% and 60% for wind or earthquake loading with no further increase allowed. Reduce according to the code for normal loading criteria like cable/keyer construction.
3. Top and face fasteners are only required when installed on top of the wall. Header fasteners are ¾" x 2¼" Titen screws, see page 6.
4. ITTM loads are based on 2000 psi min concrete or grout.
5. ITTM uplift loads apply only when 2 top flange face screws are installed.
6. I-Joist headers with GPF flanges only support 835 lbs.
7. Structural composite lumber is laminated veneer lumber, Parallam® PSL and TimberStrand® LSL. Parallam® and TimberStrand® are registered trademarks of Trus Joist, a Weyerhaeuser company.

PAI/CPAI/MPAI PURLIN ANCHORS

Wood-to-concrete and -concrete block connectors that satisfy code requirements. The PA's Dual Embedment Line allows installation in concrete or concrete block.

MATERIAL: CPAI—18 ga; MPAI—14 ga; PAI—12 ga.

FINISH: Galvanized. Some products available HDG or Z-MAX.

INSTALLATION: • Minimum concrete strength is 2000 psi.

- Use all specified fasteners; some models have extra fastener holes. See General Notes.
- Wood splitting may occur when anchor is nailed to wood less than 3½" wide. For widths less than 3½", see PAHD Holdowns for alternate nailing configurations.
- PAI is designed for wood I-joists. Nail spacing is for 10dx1½" nails 3" on center, to minimize the chance of wood splitting. Maximum ledger width for full loads is 1½".

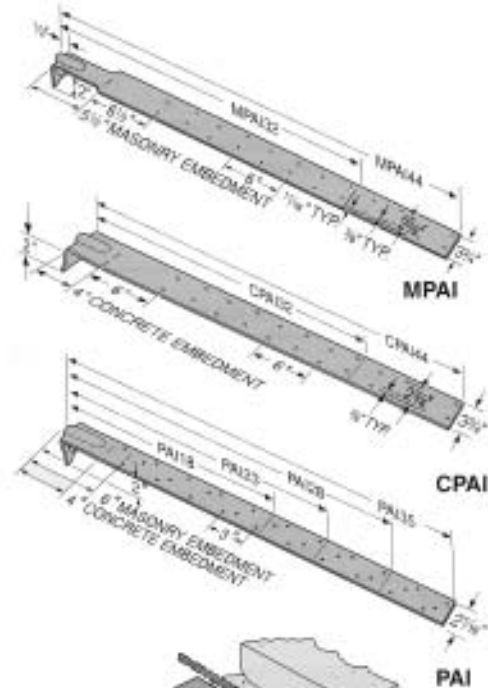
EDGE DISTANCE—Minimum concrete edge distance is 5". Minimum concrete block left-to-right edge distance is 20".

CONCRETE BLOCK WALLS—The masonry embedment line on PAI, MPAI allows for 4" of grout embedment in a standard 8" concrete masonry unit. The minimum wall specifications are: one #4 vertical rebar, 32" long, at 32" o.c.; two courses of block above and below the anchor; a horizontal bond beam with two #4 rebars, 40" long, a maximum of two courses above or below the anchor; all cells grouted with 2000 psi ¾" aggregate grout. Grout shall be vibrated per the 1997 UBC section 2104.6.2.

OPTIONS: See LTT and HTT Tension Ties.

CODES: BOCA, ICBO, SBCCI NER-393 and NER-499.

Model No.	L	Fasteners		Allowable Loads			
		Masonry	Concrete	Masonry (133)	Masonry (160)	Concrete (133)	Concrete (160)
Maximum Capacity							
PAI18	18	10-10dx1½	12-10dx1½	1255	1505	1505	1805
PAI23	23	15-10dx1½	17-10dx1½	1880	2255	2130	2560
PAI28	29	21-10dx1½	23-10dx1½	2630	2815	2885	3460
PAI35	35	26-10dx1½	29-10dx1½	2815	2815	3635	3685
CPAI32	32	—	16-10dx1½	—	—	1940	2330
CPAI44	44	—	24-10dx1½	—	—	2910	3435
MPAI32	32	16-10dx1½	—	1960	2355	—	—
MPAI44	44	24-10dx1½	—	2865	2865	—	—
1½ LVL and 3x Ledger							
PAI18	18	8-10dx1½	10-10dx1½	1000	1205	1255	1505
PAI23	23	13-10dx1½	15-10dx1½	1630	1955	1880	2255
PAI28	29	19-10dx1½	21-10dx1½	2380	2615	2630	3160
PAI35	35	24-10dx1½	27-10dx1½	2815	2815	3385	3685
CPAI32	32	—	16-10dx1½	—	—	1940	2330
CPAI44	44	—	24-10dx1½	—	—	2910	3435
MPAI32	32	16-10dx1½	—	1960	2355	—	—
MPAI44	44	24-10dx1½	—	2865	2865	—	—
4x Ledger							
PAI18	18	7-10dx1½	9-10dx1½	875	1055	1130	1355
PAI23	23	12-10dx1½	14-10dx1½	1505	1805	1755	2105
PAI28	29	18-10dx1½	20-10dx1½	2255	2705	2505	3010
PAI35	35	23-10dx1½	26-10dx1½	2815	2815	3260	3685
CPAI32	32	—	16-10dx1½	—	—	1940	2330
CPAI44	44	—	24-10dx1½	—	—	2910	3435
MPAI32	32	16-10dx1½	—	1960	2355	—	—
MPAI44	44	24-10dx1½	—	2865	2865	—	—



1. Allowable loads have been increased 33% and 60% for earthquake or wind loading with no further increase allowed; reduce for other load durations according to the code.

PAI Purlin to Concrete Wall (CPAI similar)

