PINTAIL™ ANCHOR HANGING AND BRACING SOLUTIONS for 2.0DS-30 FL / 2.0DF-30 FL COMPOSITE DECK-SLAB

Hang and Brace Loads from 2.0DS-30 FL / 2.0DF-30 FL Composite Deck-Slabs

PINTAIL™ ANCHOR





LOAD IN ANY DIRECTION

 $f_c = 3000 \text{ psi (min.) } \& 110 \text{ lb/ft}^3 \text{ (min.)}$



	Threaded	Allowable Strength, P _n /Ω (lbs) Spacing (in.)					Design Strength, øP _n (lbs) Spacing (in.)				
	Rod Size										
Part Number	(in.)	2 3/8	4	6	8	≥9 3/8*	2 3/8	4	6	8	≥9 3/8*
20PT3	3/8"-16	345	365	390	415	432	569	603	644	685	712
20PT4	1/2"-13	345	365	390	415	432	569	603	644	685	712

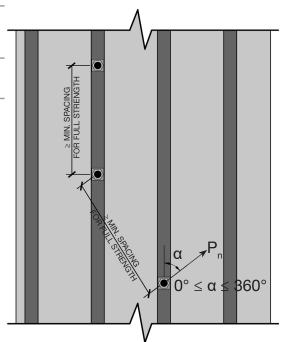
^{*}Minimum spacing for full strength. The minimum spacing applies to Pintail Anchors in the same or adjacent flute.

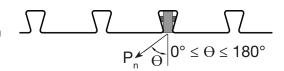
MAXIMUM SPRINKLER PIPE DIAMETER f_c = 3000 psi

Part Number	Threaded Rod Size (in.)	Hanging NPS Diameter (in.)	Bracing NPS Diameter (in.)		
20PT3	3/8"-16	4	by analysis		
20PT4	1/2"-13	4	by analysis		

Notes:

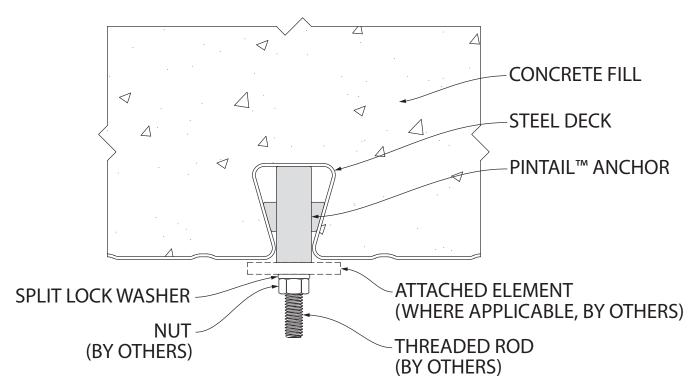
- Tabulated values show maximum load in any direction. Design for specific shear, tension, or shear/tension combinations, loads at specific angle, or for alternate concrete strength up to f'_c = 4,000 psi is permissible. See IAPMO Report ER-0423 and online design tool.
- 2. The strength of the Dovetail FL composite steel deck-slab, PinTail anchor, threaded rod or bolt, and other connecting hardware shall be equal or greater than the governing load combination as stipulated in the IBC or ASCE/SEI 7 including the fire sprinkler system loading.
- 3. The effect of connection spacing interaction, between the PinTail anchors and any other connections to the composite steel-deck slab shall be considered.
- 4. Maximum fire sprinkler pipe size in accordance with NFPA 13 assuming minimum connector spacing and no applied shear load.
- 5. PinTail anchors shall be installed and inspected in accordance with manufacturer's instructions.







PINTAIL™ ANCHOR HANGING AND BRACING SOLUTIONS INSTALLATION INSTRUCTIONS



INSTALLATION:

- 1. Ensure deck rib is free of foreign material.
- 2. Insert threaded rod into PinTail™ anchor and thread into wedgenut.
- 3. Insert PinTail™ anchor into steel deck.
- 4. Push in threaded rod and rotate wedgenut 90 degrees.
- 5. Release threaded rod to seat the wedgenut against the webs of steel deck.
- 6. Attach element (where applicable) followed by split lock washer and nut.
- 7. Tighten nut until split lock washer is fully compressed.

