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PRECISION INTERIORS

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TECHNICAL DATA

CONCRETE

Catalog Number Series	Shank Diameter (inch)	Min. Penetration (inch)	Installed in Mass Concrete Compressive Strength (psi)						Installed in Lightweight Aggregate Concrete Compressive Strength (psi)	
			Tension	Shear	Tension	Shear	Tension	Shear	Tension	Shear
1500, 1500S, 1500S Series Shank Fasteners	0.130	3/4 1-1/4	112 200	68 118	87 134	89 152	62 88	112 167	118 162	112 152
1500, 1500 & 1500 Series Straight Shank Fasteners	0.140	3/4 1-1/4 1-3/8	48 118 136 187	88 165 190 280	78 175 180 227	115 185 215 222	88 238 230 268	146 205 240 247	88 143 168 175	88 132 187 210
1524, 1524SD Fasteners	0.132	3/4 1-3/8	100 116	135 170	150 182	215 225	187 220	862 880	148 160	214 223
SDC100 Series	0.145 0.145	3/4 1	80 80	-	120 120	-	130 130	-	95	-
2200 Series	0.140	1-3/8	-	-	95	180	98	183	-	-
3300 Series	0.170	1-3/4 1-3/2	158 228	225 330	185 228	225 316	210 225	280 300	-	-
9100 Series	0.205	1-3/4 1-3/2 1-1/2 1-1/2 1-1/2	80 118 185 300 385	125 265 315 375 470	80 160 230 310 370	180 280 380 420 440	180 280 380 420 440	180 280 380 420 440	-	-
Load Ceiling System	0.132	1-1/2	-	-	211	-	190	-	-	-

- Note 1: Except as noted, values shown reflect a 10 to 1 safety factor.
 Note 2: Bold values shown reflect 10 to 1 safety factor for shallow embedments.
 Note 3: Values shown are for concrete of the designed strength and are for the fastener or clip system only.
 Note 4: Cyclic, fatigue or shock loads and other design criteria may require a different safety factor.
 Note 5: Job-site testing may be required to determine actual job-site values.
 Note 6: Tension value for a 3/4" min. embedment in Precast Hollow 2000 psi is 95 lbs. (Ref SDC100)
 Note 7: Edge distance is 3" unless otherwise approved.

STEEL

Catalog Number Series	Shank Diameter (inch)	Type of Shank	Installed in Steel Steel Tension (lb/inch)							
			Tension 1/4"	Shear 1/4"	Tension 1/2"	Shear 1/2"	Tension 3/4"	Shear 3/4"	Tension 1"	Shear 1"
1500, 1500 & 1500 Series Straight Shank Fasteners	0.140	Smooth	130	645	270	700	370	840	-	-
SD Series 1/2" Plywood 2X Down Pl	0.140	Smooth	75 80	280 285	110 160	260 255	218	275	-	-
3300 Series	0.170	Smooth	85	820	190	886	320	980	-	-
9100 Series	0.205	Knurled	-	-	480	1886	680	1960	-	-
Load Ceiling System	0.132	Smooth	187	-	-	-	-	-	-	-
SP Series	0.150	Smooth	170	645	220	-	-	340	734	284 689

- Note 1: Values shown reflect a 10 to 1 safety factor for tension and 8 to 1 for shear.
 Note 2: Values shown are for fasteners that have the entire pointed end of the fastener driven through the steel plate.
 Note 3: Job-site testing may be required to determine actual job-site values.
 Note 4: Cyclic, fatigue or shock loads and other design criteria may require a different safety factor.
 Note 5: Fastener penetration is 8/16" minimum (Reference 1/4" steel, SP series Shear Data (734 lbs))
 Note 6: Fastener penetration is 1/8" minimum (Reference 3/4" steel, SP series Tension Data (284 lbs))
 Note 7: Fastener penetration is 1/2" minimum (Reference 1/4" steel, SP series Shear Data (689 lbs))

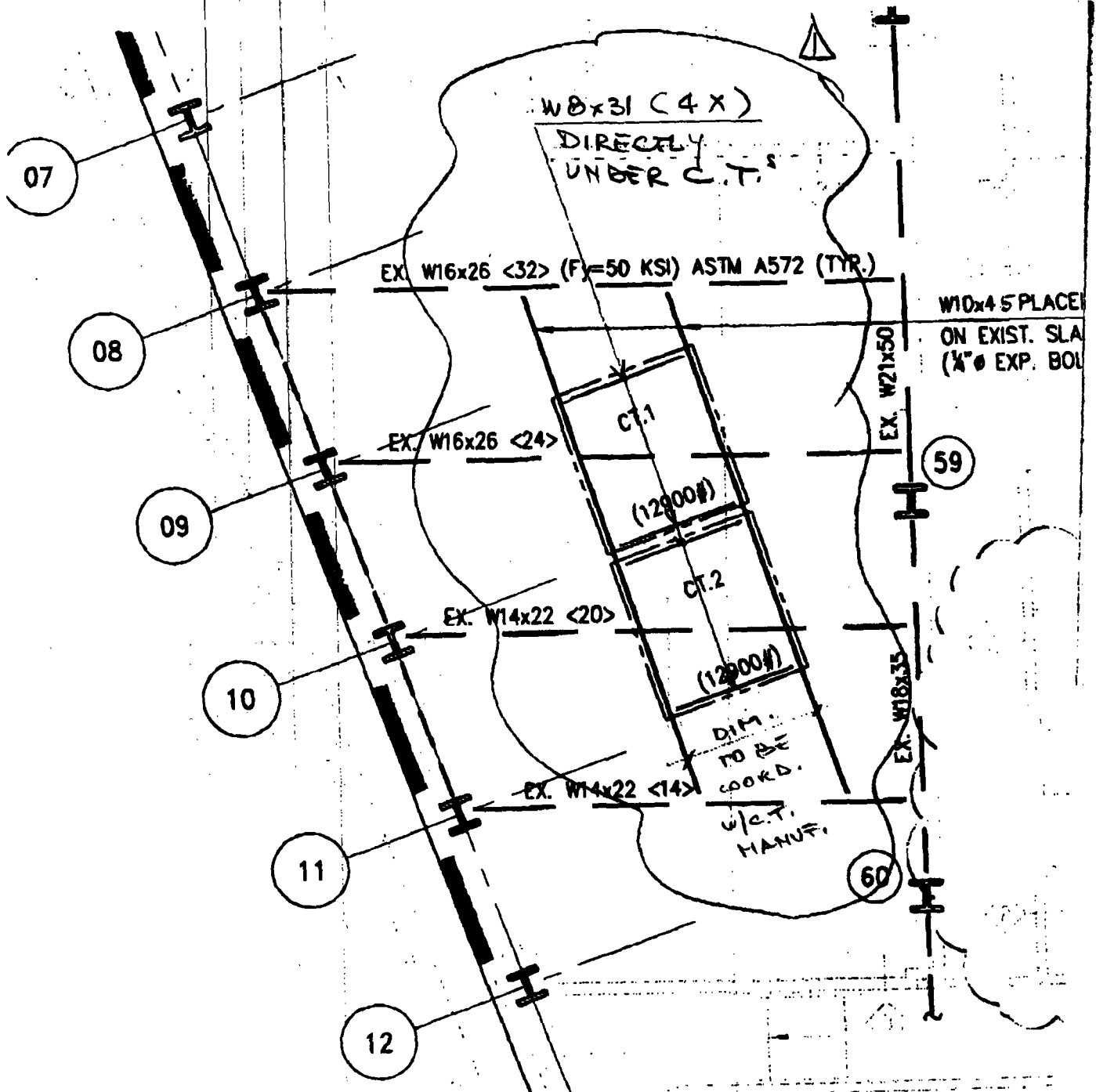
WOOD

Catalog Number	Type of Member	Shank Diameter (inch)	Min. Penetration (inch)	Min. Edge Distance (inch)	Min. Spacing (inch)	Wood Structural Tension (lbs)
SDC212	Double Pl	0.170	2	1/2	12	75
SDC212	Glulam Beam	0.170	2-1/4	1-3/4	12	118

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CANTOR SEINUK GROUP, PC CONSULTING ENGINEERS 600 MADISON AVENUE NEW YORK, NEW YORK 10022 	STRUCTURE OEM	
	SUBJECT 23rd FL - COOLING TOWERS SUPPORT	
	ARCHITECT SHCA	
	DATE 10/19/98	SK. S-23