-	CLIENT ENTE HAN -BOLESCHER
BARRY L. NEWDELMAN ASSOCIATES ARCHITECTS	resolution Ex/Alan
Illinois Wisconsin Oregon Washington ENERGY CONSULTANTS Nationwide 773.425.0200	PROJECT NO. # 272 SHEET DATE DATE
	FILETANES
REGISTERED ARCHITECT ALL INSTATE OF WASHINGTON	PROVED CONSTRUCTION PLANS AND ALL SERING MUST BE POSTED ON THE JOB AT SPECTIONS IN A VISIBLE AND READILY SIBLE LOCATION.
FOR SEXXICA	3/70-12
	TIPL 2 3
TEATNICHTUTE A NON-HEIGHTAGUE NON-HEIGHTAGUE STRUCTURES - 2	AND ROSE PANELS  NO ROSE PANELS  NO ROSE PANELS
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CNOSON INFO IMPORTANCE DESIGNATO ZONES	Sp. 1
ZONE 5	PLAN
INTERNAL STEEL INTERN	Waxa Maxis Pari
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## BARRY L. NEWDELMAN ASSOCIATES

ARCHITECTS

Illinois

Wisconsin

Oregon Washington

#### **ENERGY CONSULTANTS**

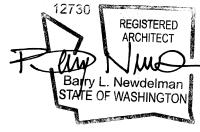
Nationwide

773,425,0200

CLIENT.	
PROJECT	
PROJECT NO. #122113	SHEET 45

1) PATERIALINE GATERING FARCES/FACTOR METHOD V=CIN. (ASCE) METAPO 1 V= ZIKCON (ANG) ASS () 3ANE 3, 3= 34 K-1.0 (SIPS PANEL) T= 0.05(20) = 1.58 > 0.10 MIN. 5=1.2 GOLL TYPE 2 W= 2x2000-075x2-15 + 4/2 (25/24)=0.00 const 12730

PREPARED



City of F Development & Po ISSUED					
Building	Planning				
Engineering	Public Works				
Fire	Traffic				

# BARRY L. NEWDELMAN ASSOCIATES ARCHITECTS

Illinois

Wisconsin Oregon Washington

ENERGY CONSULTANTS

Nationwide 773.425.0200

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PROJECT\_\_\_\_

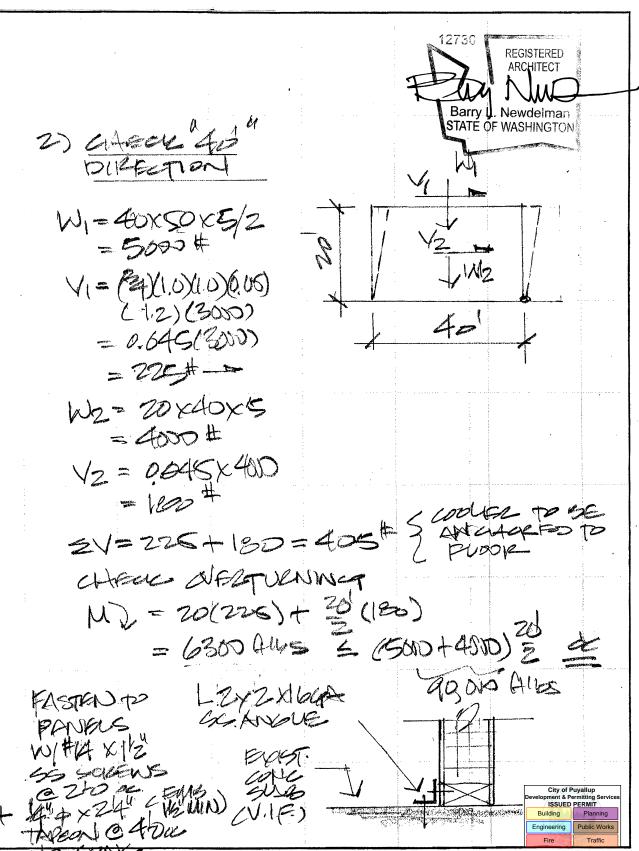
#122112 SHEET

SHEET 5/5

PREPARED \_\_\_\_

PROJECT NO.

DATE \_



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### BARRY L. NEWDELMAN ASSOCIATES ARCHITECTS

Illinois

City of Puyallup ment & Permitting Service ISSUED PERMIT Wisconsin

Oregon

### **ENERGY CONSULTANTS**

Nationwide 773.425.0200

Washington

PROJECT. 122122730 SHEET PROJECT NO. REGISTERED DATERCHITECT **PREPARED** 

Barry L. Newdelman STATE OF WASHINGTON

3) Where Averages to Floor 44x 244 + tapeon V= 405# = 40.5# 480# = 215# (40/4)

CLIENT.

#14x1/2 55 SUEWS @ 200c Y=405# = 20.3# 2190 +

4) offers POOR to WALL CONNECTION BART IX RIMBO PADE.

#HX12

HOTE LATERED POR FRACE = 226# & EST COMPRISON.

AVFRANCE

Note:

### BARRY L. NEWDELMAN ASSOCIATES ARCHITECTS

Wisconsin Oregon Washington

**ENERGY CONSULTANTS** 

Nationwide 773.425.0200

CLIENT	_
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PROJECT.

PROJECT NO. #122112

PREPARED

# 5) INFOCONNECTION OF PANELS

RECEIPEDENT TO MER LITERATURE PANELS CONNECTED W/ LAMIDORES" BE PANEL > 121, 4 per SIDE MIN COMLOCK SHEER CARRETT AGAIN PEC MER DATA =12月井44=550# 2725#些

NOTE SHORE, FLEXUE, ETC 4 MONTHUEL PANELS IS NOT PART OF THIS ANGUJESS BUT PEFER TO NIFE DATA



City of F Development & Po ISSUED					
Building	Planning				
Engineering	Public Works				
Fire	Traffic				



# **Tapcon Screw Anchor - Technical Data**

### **PERFORMANCE TABLE**

**Tapcon**<sup>®</sup>

# Anchors Ultimate Tension and Shear Values (Lbs/kN) in Concrete

ANCHOR	MIN. DEPTH OF				SI (20.7 MPa)	f'c = 4000 F	SI (27.6 MFa)	f'c = 5000 PSI (34.5 MPa)		
DIA. In. (mm)	ia. (mm)	EMBEDMENT TENSION Lbs. (kN)		TENSION Lbs. (kN)	SHEAR Lbs. (kN)	TENSION Lbs. (kN)	SHEAR Lbs. kM)	TENSION Lbs. (kN)	SHEAR Lbs. (kN)	
3/16 (4.8)	1 (25.4)	600 (2.7)	720 (3.2)	625 (2.8)	720 (3.2)	650 (2.9)	720 (3.2)	800 (3.6)	860 (3.8)	
	1-1/4 (31.8)	845 (3.7)	720 (3.2)	858 (3.8)	720 (3.2)	870 (3.9)	720 (3 <i>.</i> 2)	1,010 (4.5)	860 (3.8)	
	1-1/2 (38.1)	1,090 (4.8)	860 (3.8)	1,090 (4.8)	860 (3.8)	1,090 (4.8)	860 (3.3)	1,220 (5.4)	860 (3.8)	
	1-3/4 (44.5)	1,450 (6.5)	870 (3.9)	1,455 (6.5)	870 (3.9)	1,460 (6.5)	990 (4.4)	1,730 (7.7)	990 (4.4)	
1/4 (6.4)	1 (25.4)	750 (3.3)	900 (4.0)	775 (3.4)	900 (4.0)	800 (3.6)	1,360 (6.1)	950 (4.2)	1,440 (6.4)	
	1-1/4 (31.8)	1,050 (4.7)	900 (4.0)	1,160 (5.2)	900 (4.0)	1,270 (5.6)	1,360 (6.1)	1,515 (6.7)	1,440 (6.4)	
	1-1/2 (38.1)	1,380 (6.1)	1,200 (5.3)	1,600 (7.2)	1,200 (5.3)	1,820 (8.1)	1,380 (6.1)	2,170 (9.7)	1,670 (7.4)	
	1-3/4 (44.5)	2,020 (9.0)	1,670 (7.4)	2,200 (9.8)	1,670 (7.4)	2,380 (10.6)	1,670 (7.4)	2,770 (12.3)	1,670 (7.4)	

Safe working loads for single installation under static loading should not exceed 25% of the ultimate load capacity.

### **PERFORMANCE TABLES**

**Tapcon®** Anchors

## **Ultimate Tension and Shear Values** (Lbs/kN) in Hollow Block

Γ	ANCHOR	ANCHOR	LIGHTWE	GHT BLOCK	MEDIUM WEIGHT BŁOCK			
L	DłA, in. (mm)	EMBEDMENT In. (mm)	TENSION Lbs. (kN)	SHEAR Lbs. (kN)	TENSION Lbs. (kn)	SHEAR Lbs. (kN)		
I	3/16 (4.8)	1 (25.4)	220 (1.0)	400 (1.8)	340 (1.5)	730 (3.2]		
	1/4 (6.4)	1 (25.4)	250 (1.1)	620 (2.8)	500 (2.2)	1,000 (4.4]		

Safe working loads for single installation under static loading should not exceed 25% of the ultimate load capacity.

# Tapcon<sup>®</sup> Anchors Allowable Edge and Spacing Distances

PARAMETER	ANCHOR		NORMAL WEIGHT CONCRE	TE	CONCRETE MASONRY UNITS (CMU)				
	DIA. In. (mm)	FULL CAPACITY (Critical Distance Inches)	REDUCED CAPACITY (Minimal Distance Inches)	LOAD REDUCTION FACTOR	FULL CAPACITY (Critical Distance Inches)	F.EDUCED CAPACITY (Minimal Distance Inches)	LOAD REDUCTION FACTOR		
Spacing Between	3/16	3	1-1/2	0.73	3	1-1/2	1.00		
Anchors - Tension	1/4	4	2	0.66	4	2	0.84		
Spacing Between	3/16	3	1-1/2	0.83	3	1-1/2	1.00		
Anchors - Shear	1/4	4	2	0.82	<b>•</b> 4	2	0.81		
Edge Distance	3/16	1-7/8	1	0.83	4	2	0.91		
Tension	1/4	2-1/2	1-1/4	0.82	4	2	0.88		
Edge Distance	3/16	2-1/4	1-1/8	0.70	4	2	0.93		
-Shear	1/4	3	1-1/2	0.59	4	2	0.80		

For SI: 1 inch = 25.4 mm

NOTE: 3/16" Tapcon requires 5/32" bit, 1/4" Tapcon requires 3/16" bit.

### WOOD FASTENINGS

### TABLE 8.9A-WOOD SCREWS - WITHDRAWAL DESIGN VALUES

Normal load duration

Design values in withdrawal in pounds per inch of penetration of threaded part into side grain of member holding point.

g = gauge of screw. D = shank diameter in inches. G = specific gravity of the wood, based on weight and volume when oven-dry.

Specific _	Screw size													
gravity G	g	=	6	7	8	9	10	12	14	16	- 18	20	24	
	D	=	0.138	0.151	0.164	0.177	0.190	0.216	0.242	0.268	0.294	0.320	0.372	
0.75			220	241	262	283	304	345	387	428	470	511	594	
0.68			181	198	215	232	250	284	318	352	386	420	489	
0.67			176	193	209	226	242	275	309	342	375	408	474	
0.66			171	187	203	219	235	267	299	332	364	396	460	
0.62			151	165	179	193	207	236	264	293	321	349	406	
0.55			119	130	141	152	163	186	208	230	253	275	320	
0.54			114	125	136	147	157	179	200	222	243	265	308	
0.51			102	112	121	131	140	160	179	198	217	236	275	
0.49			94	103	112	121	130	147	165	183	200	218	254	
0.48			. 90	99	107	116	124	141	158	175	192	209	243	
0.47			87	95	103	111	119	136	152	168	184	201	233	
0.46			83	91	99	106	114	130	145	161	177	192	224	
0.45			79	87	94	102	109	124	139	154	169	184	214	
0.44			76	83	90	97	104	119	133	147	162	176	205	
0.43			72	79	86	93	100	113	127	141	154	168	195	
0.42			69	76	82	89	95	103	121	134	147	160	186	
0.41			66	72	78	85	91	103	116	128	140	153	178	
0.40			63	69	75	80	86	93	110	122	134	145	169	
0.39			60	65	71	76	82	93	105	116	127	138	161	
0.38			57	62	67	73	78	89	99	110	121	131	153	
0.37			54	59	64	69	74	84	94	104	114	124	145	
0.36			51	56	60	65	70	80	89	99	108	118	137	
0.35			48	53	57	62	66	75	84	93	102	111	129	
0.33			43	47	51	55	59	67	75	83	91	99	115	
0.31			38	41	45	48	52	5 <b>9</b> .	66	73	80	87	102	

Approximately two-thirds of the length of a standard wood screw is threaded.

### TABLE 8.9B-WOOD SCREWS - LATERAL LOAD DESIGN VALUES

Normal load duration

Design values for lateral loads (shear) in pounds for screws embedded to approximately 7 times the shank diameter into the member holding the point. For less penetration, reduce loads in proportion. Penetration should not be less than 4 times the shank diameter

		SIZE OF SCREW										
	g =	6	7	8	9	10	12	14	16	18	20	24
Species	D=	0.138	0.151	0.164	0.177	0.190	0.216	0.242	0.268	0.294	0.320	0.372
group	7D =	0.966	1.057	1.148	1.239	1.330	1.812	1.694	1.876	2.058	2.240	2.604
	4D =	0,552	0.604	0.656	0.708	0.760	0.864	0.968	1.072	1.176	1.280	1.488
Group I	-	91	109	129	150	173	224	281	345	415	492	664
Group II	=	75	90	106	124	143	185	232	284	342	406	548
Group III	=	62	74	87	101,	117	181 @	190	233	280	332	448
Group IV	=	48	58	68	79	91	118	148	181	218	258	349

