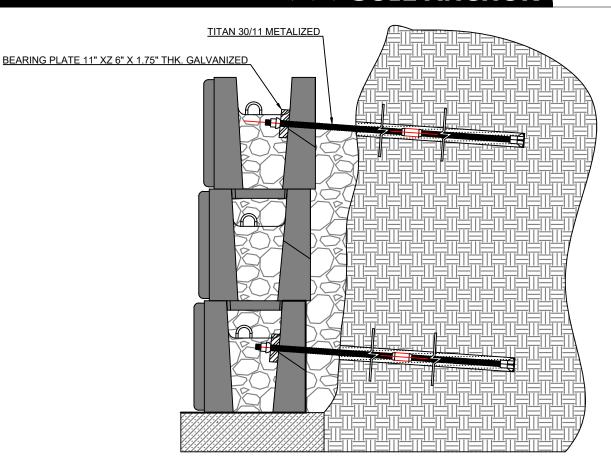
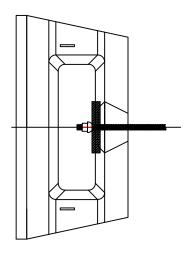
### >>>SOIL ANCHOR





DESIGN LOAD (KIPS)	fc(28 days) (psi)	BEARING PLATE SIZE (in)	BEARING PLATE THICKNESS (in)
29.7	4,000	10 X 5.5	1.5
25.0	4,000	9.5 X 5.25	1.5
20.0	4,000	9.25 X 4.75	1.5
15.0	4,000	9.0 X 4.25	1.25
10.0	4,000	8.75 X 3.5	1.25
5.0	4,000	8.0 X 3.0	1.0

#### NOTE:

NOTE.
- TITAN 30/16 ROD HAVE TO BE METALIZED
- BEARING PLATE GRADE 50 KSI, GALVANIZED
AFTER FABRICATION.
- VERTICAL/HORIZONTAL NAILS SPACING
BASED ON REQUIRED CAPACITY.

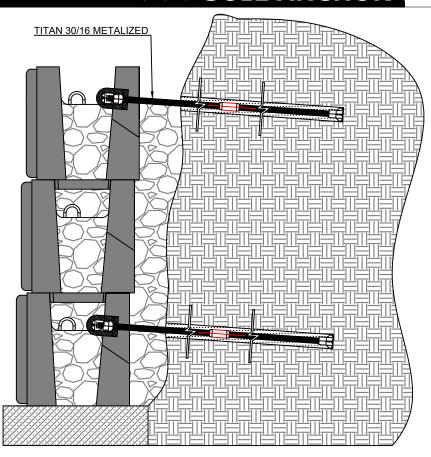
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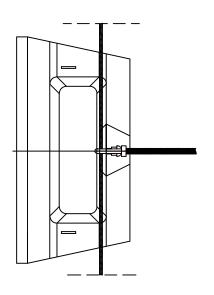
CON_TEC	CH SYSTEMS LTD	CORI	NERSTONE	
SCALE:			DRAWN BY: TOM	
DATE: 2021.08.18			REVISED: TH	
TITAN 30/16 & MAGNUMSTONE WALL, OPTION #				
SOIL NAIL (	C/W BEARING PLATE		DRAWING NUMBER SAMPLE #1	



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### >>>SOIL ANCHOR

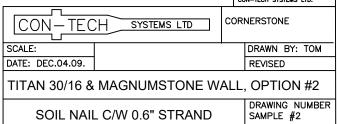




NOTE:
- TITAN 30/16 ROD HAVE TO BE METALIZED
-0.6° STRAND 270 KSI, HAVE TO BE
GALVANIZED.
-EYE HAVE TO BE METALIZED

- VERTICAL/HORIZONTAL NAILS SPACING BASED ON REQUIRED CAPACITY.

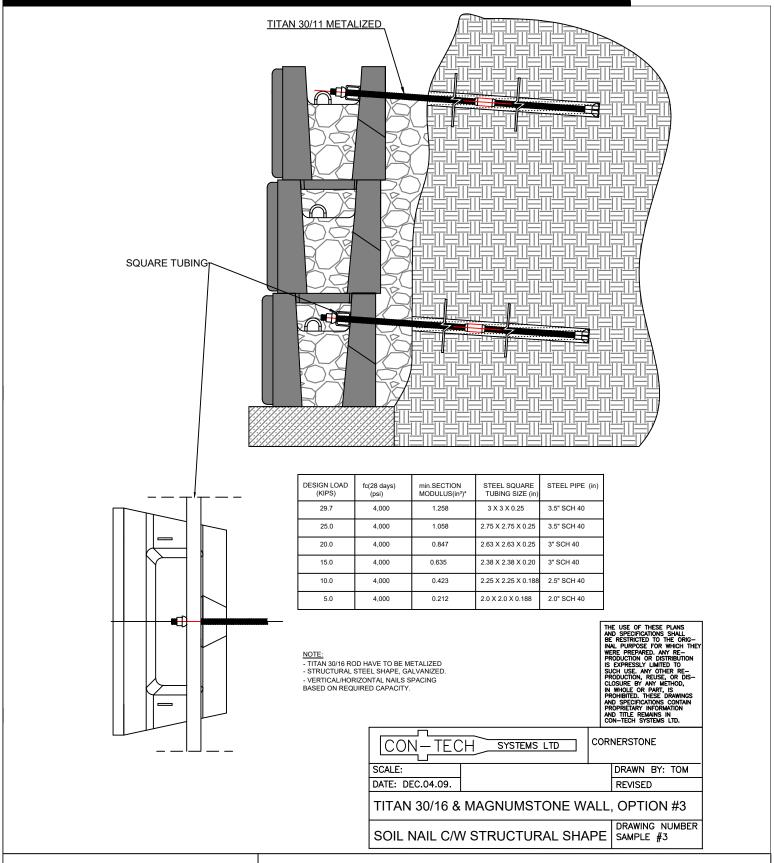
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## >>>SOIL ANCHOR

BAR SIZE	AREA (in²)	GUTS(kips)	YIELD(kips)	Max.TEST (kips)	Max.DESIGN LOAD (kips)	BAR LENGTH (ft)
TITAN 30/16	0.59	49.5	40.5	39.6	29.7	10

AVERAGE ULTIMATE BOND STRESS-ROCK/GROUT	psi	CARBIDE DRILL BIT SIZE (in)	FACTOR OF SAFETY	min. BOND LENGTH (ft)
GRANITE & BASALT	250 - 450	2	1.5	2.4
DOLOMOTIC LIMESTONE	200 - 300	2	1.5	2.9
SOFT LIMESTONE	150 - 200	2	1.5	4.0
SLATES & HARD SHALES	120 - 200	2	1.5	4.9
SOFT SHALES	30 - 120	2	1.5	19.7
SAND STONES	120 - 250	2	1.5	4.9
WEATHERED SANDSTONES	100 - 120	2	1.5	5.9
CHALK	30 - 155	2	1.5	19.7
WEATHERED MARL	25 - 35	2	1.5	29.5
CONCRETE	200 - 400	2	1.5	2.9

AVERAGE ULTIMATE BOND STRESS-COHESIVE SOILS/GROUT	psi	CLAY DRILL BIT SIZE (in)	FACTOR OF SAFETY	min. BOND LENGTH (ft)
SOFT SILTY CLAY	5 - 10	3.75	1.5	45.2
SILTY CLAY	5 - 10	3.75	1.5	45.2
STIFF CLAY, MED. TO HIGH PLASTICITY	5 - 15	3.75	1.5	45.2
VERY STIFF CLAY, MED. TO HIGH PLASTICITY	10 - 25	3.75	1.5	22.6
STIFF CLAY, MED. PLASTICITY	15 - 35	3.75	1.5	15.1
VERY STIFF CLAY, MED. PLASTICITY	20 - 50	3.75	1.5	11.3
VERY STIFF SANDY SILT, MED. PLASTICITY	40 - 55	3.75	1.5	5.6

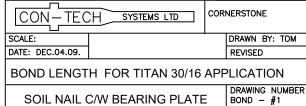
AVERAGE ULTIMATE BOND STRESS-COHESIONLESS SOILS /GROUT	psi	DRILL BIT SIZE (in)	FACTOR OF SAFETY	min. BOND LENGTH (ft)
FINE-MED. SAND, MED. DENSE - DENSE	12 - 55	3.5	1.5	18.5
MEDCOARSE SAND (W/GRAVEL), MEDDENSE	16 - 95	3.5	1.5	13.9
MEDCOARSE SAND ( W/GRAVEL), DENSE-VERY DENSE	35 - 140	3.5	1.5	6.4
SILTY SAND	25 - 60	3.5	1.5	8.9
DENSE GLACIAL TILL	43 - 75	3.5	1.5	5.2
SANDY GRAVEL, MED. DENSE - DENSE	31 - 200	3.5	1.5	7.2
SANDY GRAVEL, DENSE - VERY DENSE	40 - 200	3.5	1.5	5.6

#### NOTE:

BOND LENGTH CALCULATED WITHMAX. DESIGN LOAD OF 29.7 kips PER ROD. IF CORNERSTONE REQUIRE LOWER DESIGN LOAD, DIFFERENT IN LOAD (%) WILL APPLY ON THE BOND LENGTH TOO.

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## >>>SOIL ANCHOR

BAR SIZE	AREA (in²)	GUTS(kips)	YIELD(kips)	Max.TEST (kips)	Max.DESIGN LOAD (kips)	BAR LENGTH (ft)
TITAN 40/20	1.13	121.2	96.7	95.6	72.7	10

AVERAGE ULTIMATE BOND STRESS-ROCK/GROUT	psi	CARBIDE DRILL BIT SIZE (in)	FACTOR OF SAFETY	min. BOND LENGTH (ft)
GRANITE & BASALT	250 - 450	3.5	1.5	3.3
DOLOMOTIC LIMESTONE	200 - 300	3.5	1.5	4.1
SOFT LIMESTONE	150 - 200	3.5	1.5	5.5
SLATES & HARD SHALES	120 - 200	3.5	1.5	6.9
SOFT SHALES	30 - 120	3.5	1.5	27.5
SAND STONES	120 - 250	3.5	1.5	6.9
WEATHERED SANDSTONES	100 - 120	3.5	1.5	8.3
CHALK	30 - 155	3.5	1.5	27.5
WEATHERED MARL	25 - 35	3.5	1.5	33.0
CONCRETE	200 - 400	3.5	1.5	4.1

AVERAGE ULTIMATE BOND STRESS-COHESIVE SOILS/GROUT	psi	CLAY DRILL BIT SIZE (in)	FACTOR OF SAFETY	min. BOND LENGTH (ft)
SOFT SILTY CLAY	5 - 10	5.90	1.5	70.0
SILTY CLAY	5 - 10	5.90	1.5	70.0
STIFF CLAY, MED. TO HIGH PLASTICITY	5 - 15	5.90	1.5	70.0
VERY STIFF CLAY, MED. TO HIGH PLASTICITY	10 - 25	5.90	1.5	35.0
STIFF CLAY, MED. PLASTICITY	15 - 35	5.90	1.5	23.3
VERY STIFF CLAY, MED. PLASTICITY	20 - 50	5.90	1.5	17.5
VERY STIFF SANDY SILT, MED. PLASTICITY	40 - 55	5.90	1.5	8.8

AVERAGE ULTIMATE BOND STRESS-COHESIONLESS SOILS /GROUT	psi	DRILL BIT SIZE (in)	FACTOR OF SAFETY	min. BOND LENGTH (ft)
FINE-MED. SAND, MED. DENSE - DENSE	12 - 55	4.5	1.5	35.5
MEDCOARSE SAND (W/GRAVEL), MEDDENSE	16 - 95	4.5	1.5	26.6
MEDCOARSE SAND ( W/GRAVEL), DENSE-VERY DENSE	35 - 140	4.5	1.5	12.2
SILTY SAND	25 - 60	4.5	1.5	17.0
DENSE GLACIAL TILL	43 - 75	4.5	1.5	9.9
SANDY GRAVEL, MED. DENSE - DENSE	31 - 200	4.5	1.5	13.7
SANDY GRAVEL, DENSE - VERY DENSE	40 - 200	4.5	1.5	10.7

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CON-TECH CORNERSTONE SYSTEMS LTD DRAWN BY: TOM DATE: DEC.04.09. REVISED BOND LENGTH FOR TITAN 40/20 APPLICATION DRAWING NUMBER

SOIL NAIL C/W BEARING PLATE

BOND - #2



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