



SPECIFICATIONS ACCORDING TO CAN/CSA A23.1, A23.2, A23.3

CONCRETE MAIN FOUNDATION: 35 MPa	EXPOSURE CLASS
CONCRETE PEDESTAL: 45 MPa	BY CSA: F-4
CONCRETE CONSTRUCTION SLAB: 15 MPa	
CONCRETE COVER	REINFORCEMENT STEEL
TOP: 55 mm	CAN/CSA G30.18
BOTTOM: 55 mm	
SIDE: 55 mm	
CONCRETE QUANTITY	QUANTITY (METRIC TON)
MAIN FOUNDATION: 35 MPa: 654 m³	FOUNDATION: ±481
PEDESTAL: 45 MPa: 23 m³	
TOTAL: 677 m³	

ENERCON E-138 EP3 E2-ST-111-FB-C-01

LOAD CASE	DESCRIPTION	F ₁ MAX (kN)	F ₁ MIN (kN)	F ₂ (kN)	F ₃ (kN)	M ₁ (kN-m)	M ₂ (kN-m)
ELC D.3 (UNFACTORED)	NORMAL	-5.270	-6.020	730	65,750	0	0
ELC E.2 (UNFACTORED)	EXTREME	-5.270	-6.020	1,060	102,700	9,500	0
ELC E.2 (UNFACTORED)	NORMAL	-5.270	-6.020	1,060	102,700	9,500	0
GROUP NAUT (UNFACTORED)	EXTREME	-5.270	-6.020	1,070	102,700	9,500	0
GROUP NAUT (UNFACTORED)	ABNORMAL	-5.270	-6.020	1,070	102,700	9,500	0
GROUP NAUT (FACTORED)	EXTREME	-4.730	-5.630	1,410	127,300	12,800	0
GROUP NAUT (FACTORED)	ABNORMAL	-4.730	-5.630	1,410	127,300	12,800	0

NOTE:
1. FOR TOWER T1, T2 AND T3, ENGINEER FILL IS REQUIRED UNDER THE SEAL SLAB. 100 mm OF ROCK OR SOIL SHALL BE REPLACED. SEE GENERAL NOTES FOR DETAILS.



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SEAL:
CLIENT:
PROJECT:



CLIENT REF #:
PROJECT:
EASTERN KINGS WIND PLANT PHASE 2

ELMIRA, KINGS COUNTY, PRINCE EDWARD ISLAND, CANADA

DISCLAIMER:
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REVISIONS:

NO.	DATE	DESCRIPTION
B	2020-08-07	ISSUED FOR FINAL COMMENTS
A	2020-04-09	FOR COMMENTS - 90%

PROJECT NO.: 191-12540-00
DATE: 2020-04-09
ORIGINAL SCALE: AS SHOWN
DESIGNED BY: S. MANUELA P. ENG.
DRAWN BY: C. KISHA
CHECKED BY: M. WARD/COO/VATTE P. ENG.
DISCIPLINE: STRUCTURAL

TITLE:
ENERCON E-138 EP3 E2-ST-111-FB-C-01 SHALLOW FOUNDATION WITH BUOYANCY PLAN VIEW AND SECTION

THIS DRAWING MUST BE USED WITH PLAN:
191-12540-00-EKW-S-100
191-12540-00-EKW-S-101
191-12540-00-EKW-S-103
191-12540-00-EKW-S-104
191-12540-00-EKW-S-105

REF NUMBER: 191-12540-00-EKW-S-102
SHEET # 01 OF 01
DATE OF: 2020-08-07
FOR FINAL COMMENTS
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