



# LIANG CHI INDUSTRY ( THAILAND ) CO., LTD.

## COUNTER FLOW INDUCED DRAFT LBC TYPE COOLING TOWER SPECIFICATION

DATE :  
 TOWER MODEL NO. : LBC - T - 700  
 NO. OF SETS : 1

### DESIGN & OPERATING CONDITIONS

WATER FLOW RATE. : 7,983 LPM  
 HOT WATER TEMP. : 37 °C  
 COLD WATER TEMP : 32 °C  
 AMB. WET BULB TEMP. : 28 °C  
 EACH FAN B.H.P. : 16.67 BHP  
 TOWER PUMP HEAD : 5.5 M  
 DRIFT LOSS OF WATER FLOW RATE : 0.2 %  
 EVAPORATION LOSS OF WATER FLOW RATE : 0.83 %  
 DESIGN WIND LOAD : 150 Kg / M<sup>2</sup>

### STRUCTURAL DETAILS

OVERALL DIMENSION : 6600 MM  
 DRY WEIGHT : 3567 Kg  
 OPERATING WEIGHT PER TOWER : 10967 Kg

### CONSTRUCTION

TOWER SUPPORTER FRAME ASS'Y : H.D.G.S.  
 CASING : F.R.P.  
 CASING SUPPORTOR : H.D.G.S.  
 COLD WATER BASIN : F.R.P.  
 FILLING : P.V.C.  
 FILLING SUPPORTOR : H.D.G.S.  
 FAN GUARD : H.D.G.S.  
 MECHANICAL EQUIPMENT SUPPORTOR : H.D.G.S.  
 INLET LOUVER : P.V.C.  
 BOLTS,NUTS & WASHERS : C.P.S.

LIANG CHI IND. (THAILAND) CO., LTD.	
TECHNIC DEPT.	
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TECHNIC BY :	



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### WATER DISTRIBUTION

STAND PIPE : P.V.C.  
 SPRINKLER HEAD : A.A.  
 MODEL : LSH - 250  
 SPRINKLER PIPE : P.V.C.

### MECHANICAL EQUIPMENTS

#### FAN UNIT

NO. OF UNIT : 1 UNIT / SET  
 TYPE : AXIAL FLOW  
 MODEL : LSF-340  
 MANUFACTUROR : LIANG CHI INDUSTRY  
 DIAMETER : 3380 MM  
 NO. OF BLADES : 4  
 FAN SPEED : 282 RPM  
 TIP SPEED : 49.91 M/S  
 BLADE MATERIAL : A.A.  
 HUP MATERIAL : A.A.  
 AIR VOLUME : 3750 M<sup>3</sup> / MIN/SET

#### SPEED REDUCER

NO. OF UNIT : 1 UNIT / SET  
 TYPE : BELT  
 MODEL : VBA-150-B  
 MANUFACTUROR : LIANG CHI IND.CO.,LTD.  
 REDUCTION RATIO : 3.37 : 1

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### FAN MOTOR

NO. OF UNIT : 1 UNIT / SET  
 TYPE : TEFC  
 INSULATION : CLASS F IP55  
 MANUFACTUROR : LIANG CHI  
 SPEED : 950 RPM  
 RATED H.P : 20 H.P \* 6P  
 POWER SOURCE ( VOLT / PHASE / HZ ) : 380 / 3 / 50

### PIPING CONNECTION

	SIZE	Q'TY / SET
WATER INLET	10 B ( 250 A )	1
WATER OUTLET	10 B ( 250 A )	1
AUTO FILL	2 B ( 50 A )	1
QUICK FILL	2 B ( 50 A )	1
OVER FLOW	4 B ( 100 A )	1
DRAIN	2 B ( 50 A )	1

### **REMARK**

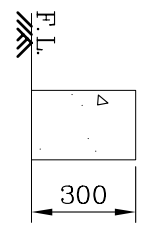
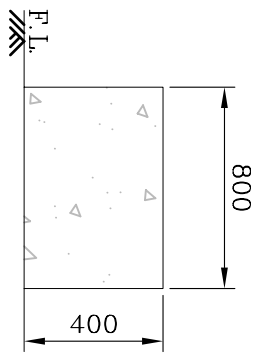
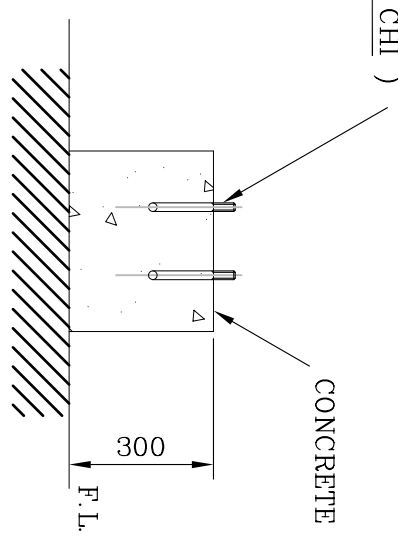
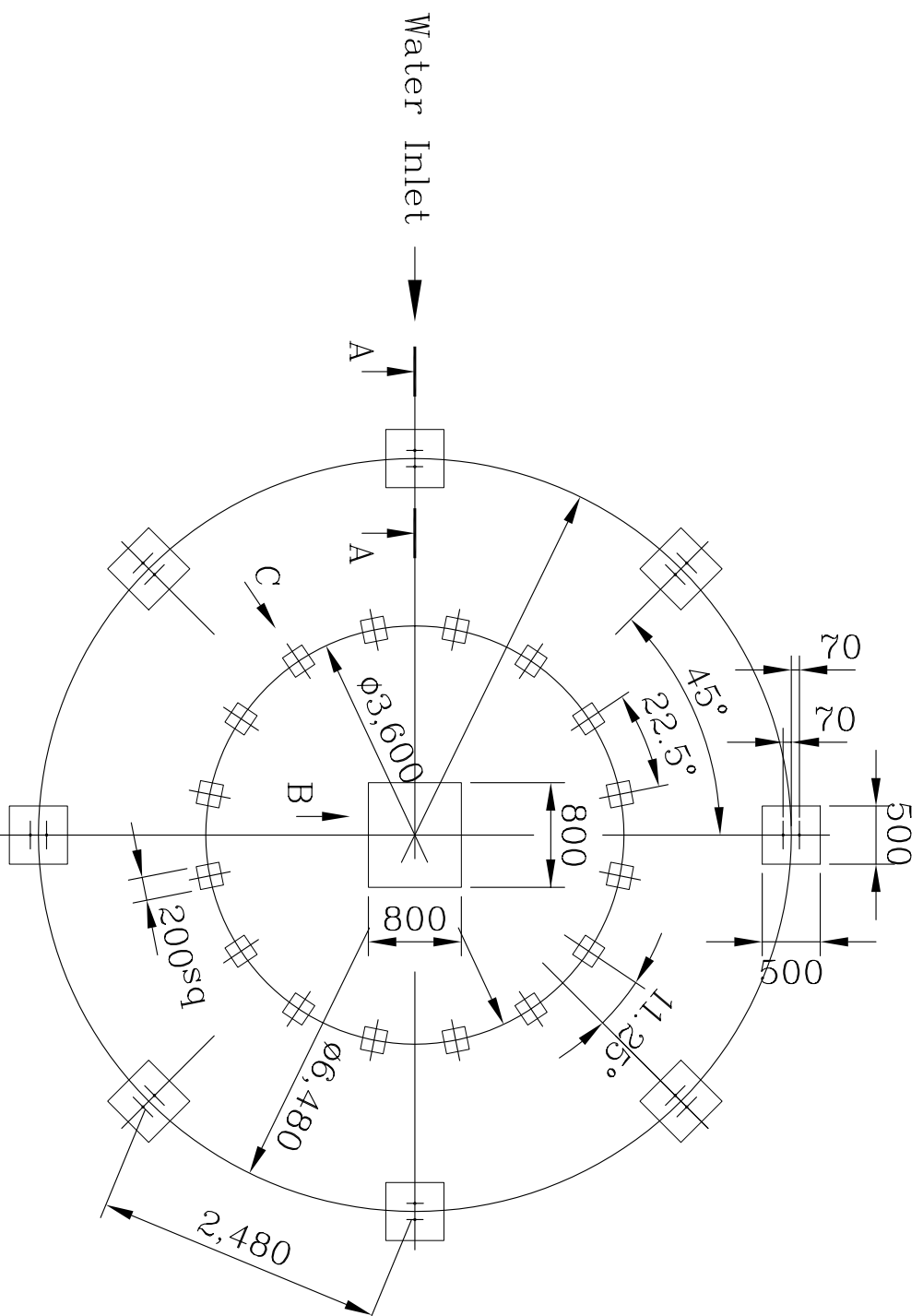
F.R.P : FIBERGLASS REINFORCE PLASTIC  
 H.D.G.S : HOT DIP GALVALNIZED STEEL  
 A.A. : ALUMINIUM ALLOY  
 C.P.S. : CHROMATED - PLATING STEEL

DESIGNED : .....  
 CHECK : .....  
 APPROVE : .....

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EXPANSION BOLT ( BY LIANG CHI )



REMARK :

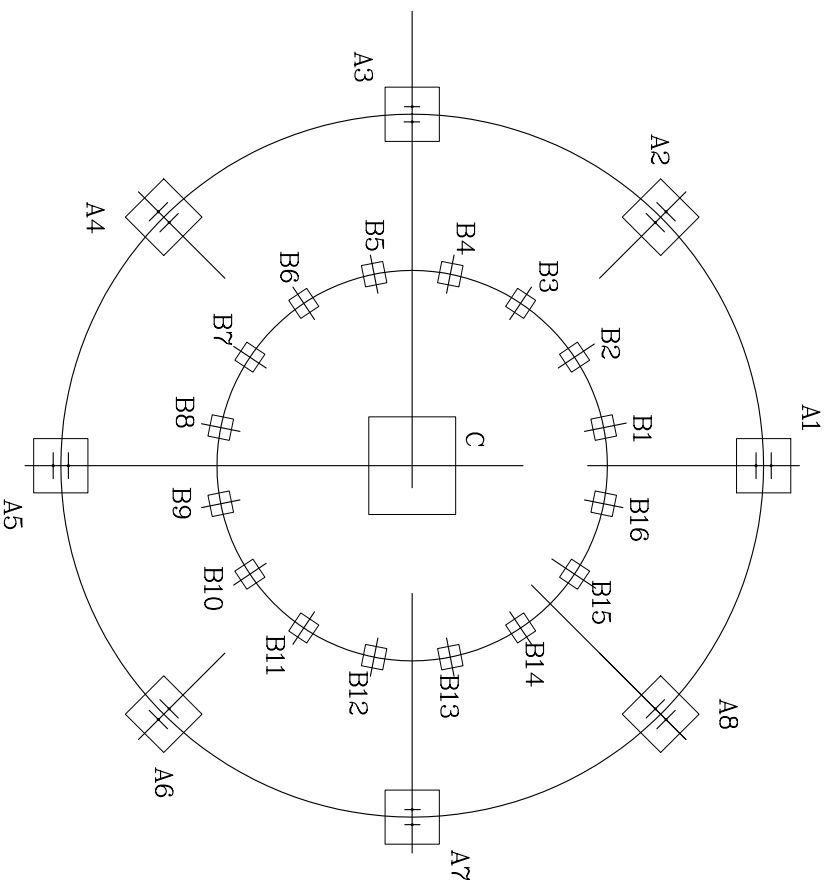
1. THIS FOUNDATION DRAWING IS PROVIDED FOR END USER'S REFERENCE.
2. COOLING TOWER DOES NOT INCLUDE FOUNDATION
3. THE LEVEL TOLERANCE OF FOUNDATION IS ±2 mm.
4. THE HEIGHT OF FOUNDATION EXCLUDES THERMAL INSULATOR AND WATER PROOF.
- \* 5. EXPANSION BOLT & RUBBER PAD SHALL BE FURNISHED BY LIANG CHI  
( PLEASE DON'T PREPARE HOLE OF EXPANSION BOLT BEFORE INSTALLATION )

LIANG CHI IND. (THAILAND) CO.,LTD  
TECHNIC DEPT.

FOR REFERENCE  
 FOR APPROVAL  
 OTHER.....

DATE :  
TECHNIC BY :

REV.	DATE	DWG BY	APP.	NOTE
TITLE				
Concrete Foundation				
APP.	K.Somangs	DESIGN	Annat	
CHECK	SURASAK	DWG BY.	Annat	
LIANG CHI INDUSTRY (THAILAND) CO., LTD. (NUM KRAL INDUSTRIAL ZONE LUANG-PAENG RD.)				LBC-T-700-02
			MM	DWG-NO



UNIT : KG.

LBC-T-700	A1 = A2 = ... = A8	B1 = B2 = ... = B16	C
	643	96	

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 APPROVAL  
 OTHER.....  
 DATE :  
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REV.	DATE	DWG BY	APP.	NOTE
TITLE				
LBC-T-700				
Loading Data				
APP.	K.Somangs	DESIGN	Annot	
CHECK	SURASAK	DWG BY.	Annot	
LIANG CHI INDUSTRY (THAILAND) CO., LTD. 223 Moo 9 Tab-Yaolad-Krabang Bangkok 10520 (NUM KRAL INDUSTRIAL ZONE LUANG-PAENG RD.)				LBC-T-700-03