

DISPLAY - OUTDOOR

WALL MOUNT METHOD - FRONT INSTALL

SUBMITTAL APPROVAL

☐ APPROVED ☐ APPROVED AS NOTED ☐ APPROVED AS NOTED & RESUBMIT

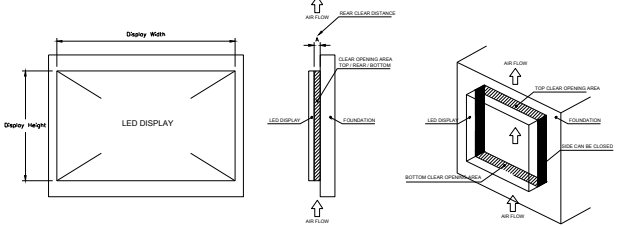
COMPANY: _____

SIGNED: _____

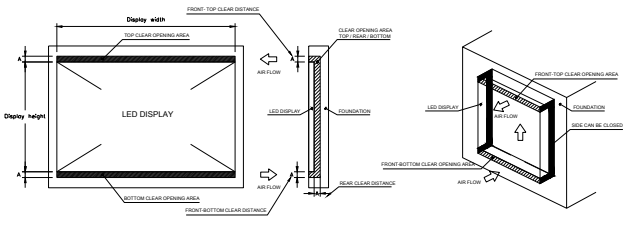
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DATE: _____

DETAIL THERMAL EXPLANATION CAN REF TO DRAWING 3319933



THE SITUATION WHEN DISPLAY INSTALL IN FRONT OF THE FOUNDATION



THE SITUATION WHEN DISPLAY INSTALL INNER THE FOUNDATION

NOTES:

1.0 PROJECT RESPONSIBILITY:

- ALL DRAWINGS MUST BE APPROVED BY THE CUSTOMER AND IF APPLICABLE BE CERTIFIED BY A PROFESSIONAL ENGINEER LICENSED IN THE APPROPRIATE COUNTRY BEFORE THEY CAN BE USED FOR FABRICATION OR ERECTION.
- IT WILL BE THE UNDERSTANDING OF DAKTRONICS THAT SHOP APPROVAL IMPLIES THAT A QUALIFIED ENGINEER HAS REVIEWED THE ADDITIONAL LOADS TO THE EXISTING STRUCTURE AND THAT THE EXISTING STRUCTURE HAS BEEN DEEMED ACCEPTABLE TO SUPPORT THE LOADS AS DETAILED.

2.0 STRUCTURAL NOTES:

- COMPLY WITH THE PROVISIONS OF THE FOLLOWING LATEST EDITIONS BUT NOT LIMITED TO THESE ONLY:
 - ALL FEDERAL, STATE AND LOCAL LAWS THAT GOVERN SAFETY REQUIREMENTS FOR STEEL ERECTION.
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "CODE OF STANDARD PRACTICES FOR STEEL BUILDINGS AND BRIDGES" AND "SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS"
 - AMERICAN WELDING SOCIETY (AWS) STANDARD CODE D11 "STRUCTURAL WELDING CODE"
 - AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" APPROVED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS.
 - AISC 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY"
- STRUCTURAL STEEL GRADE MINIMUM REQUIREMENTS:
 - PLATE, ANGLE, AND CHANNEL SHALL BE ASTM A36 (Fy=36 ksi)
 - HOLLOW STRUCTURAL STEEL TUBE SHALL BE ASTM A500-C (Fy=50 ksi)
 - WIDE FLANGE AND WT SHALL BE ASTM A992-50 (Fy=50 ksi)
 - ROUND STEEL PIPE SHALL BE ASTM A53-B (Fy=35 ksi)
 - REINFORCEMENT STEEL SHALL BE ASTM A615-60 (Fy=60 ksi)
 - STIRRUPS AND TIES SHALL BE ASTM A615-40 (Fy=40 ksi)
- BOLTS AND NUTS MINIMUM REQUIREMENTS
 - ALL BOLTS SHALL BE HEAVY HEX STRUCTURAL BOLTS ASTM A325 TYPE 1 U.N.C.
 - STRUCTURAL HEX NUTS SHALL BE MINIMUM ASTM A305 CH
 - STRUCTURAL WASHERS SHALL BE MINIMUM ASTM F436
 - ANCHOR RODS SHALL BE MINIMUM ASTM F1554-36 (Fy = 36 ksi) AND GALVANIZED
 - GRADE 5 HARDWARE SHALL BE ACCEPTABLE WHERE SPECIFIED ON DRAWINGS
 - ALL HEAVY HEX STRUCTURAL BOLTS, ANCHOR RODS,
 - NUTS & WASHERS SHALL BE GALVANIZED PER THE LATEST EDITION OF ONE OF THE FOLLOWING ASTM STANDARDS:
 - ASTM A153 (CLASS C) OR ASTM B 686 (CLASS 50)
 - ALL BOLTS IN CONTACT WITH ALUMINUM SHALL BE ZINC PLATED, GALVANIZED, OR STAINLESS STEEL
 - ALL BOLTS SHALL BE FULLY PRETENSIONED PER APPROVED METHODS LISTED IN AISC STANDARDS U.N.C.
- STRUCTURAL STEEL WELDING
 - ALL WELDING (SHOP & FIELD) SHALL BE PERFORMED BY A WELDER CERTIFIED FOR THE SPECIFIED TYPE AND POSITION OF THE REQUIRED WELD.
 - ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1
 - SHIELDED METAL ARC WELDING PROCESSES SHALL BE USED TO PERFORM WELDS
 - LOW HYDROGEN E70 SERIES ELECTRODES TO BE USED WITH SMAW PROCESS
- PAINT
 - ALL STRUCTURE STEEL SHALL BE PREPARED TO MEET CUSTOMER'S SPECIFICATIONS OR A MINIMUM OF SSPC-SP2
 - ALL STEEL MUST BE COATED AND PROTECTED BY SPECIFIED PRIMER AND THEN FINISHED PER COLOR INDICATED BY THE CUSTOMER
 - IMMEDIATELY AFTER SURFACE PREPARATION APPLY SPECIFIED PRIMER AT A RATE TO PROVIDE A UNIFORM DRY THICKNESS OF 2 MILS
 - TOUCH UP PAINT AFTER INSTALLATION
- WIND LOAD DESIGN CRITERIA PER "CODE OF PRACTICE ON WIND EFFECTS IN THE APPROPRIATE COUNTRY":
 - DESIGN WIND PRESSURE=120ps (STRENGTH LEVEL)
 - WIND PRESSURE=228ps
 - SEE CERTIFIED DRAWING FROM THE ENGINEER OF RECORD FOR FINAL PARAMETERS

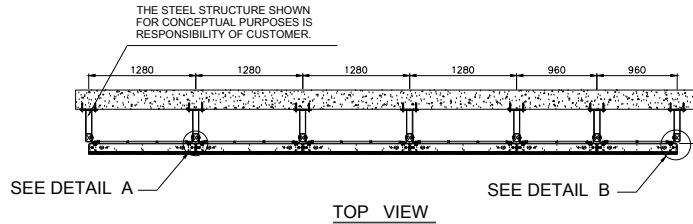
3.0 FAN FILTER VENTILATED DISPLAY REQUIREMENTS (on below 3.3 and 3.4 and 4.2 option for ventilation, AC is not required, just an option.)

- IF BOTH INTAKE AND EXHAUST VENT PANELS ARE OBSTRUCTED BY STRINGERS THERE MUST BE A MINIMUM OF 1" (25.4mm) CLEARANCE BETWEEN STRINGER AND VENTILATION PANEL.
- IF ONLY INTAKE OR ONLY EXHAUST VENT PANELS ARE OBSTRUCTED BY STRINGERS THERE MUST BE A MINIMUM OF 0.15" (4mm) CLEARANCE BETWEEN STRINGER AND VENTILATION PANEL.
- IN ENCLOSED STRUCTURE SITUATIONS, A MINIMUM AMOUNT OF 1.67M² (OR DISPLAY REAR DEPTH DISTANCE "A" IS 237 MM) MUST BE PROVIDED FOR BOTH INTAKE AND EXHAUST. ALLOWANCES MUST BE MADE TO COMPENSATE FOR THE PERCENTAGE OF SCREEN MATERIAL COVERING THE OPENINGS IN THE STRUCTURE.
- IF FORCED VENTILATION OF THE ENCLOSED STRUCTURE IS REQUIRED, A MINIMUM AMOUNT OF 153 M³/MIN. (OR 5387 CFM) WILL BE REQUIRED TO ENSURE PROPER COOLING.
- IN AN ANECHOIC CHAMBER, THE SOUND PRESSURE LEVEL OF ONE DISPLAY SECTION IS 52 dBA, AS MEASURED FROM A DISTANCE OF 3.28 FEET (1 METER) FROM THE REAR OF THE CABINET.

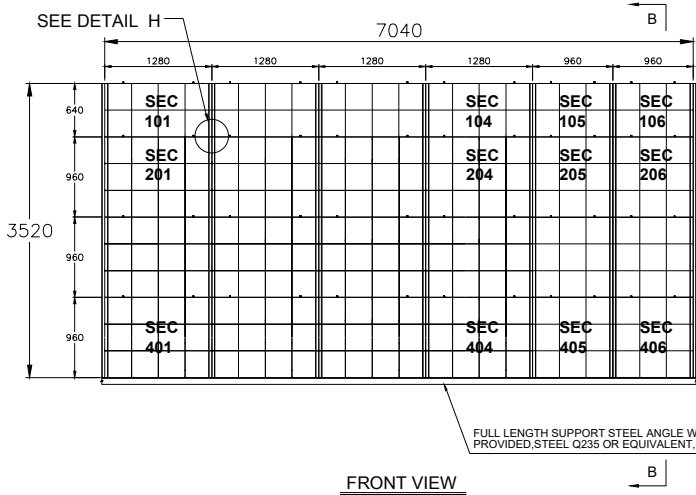
4.0 DISPLAY WITHIN AIR CONDITIONED ENCLOSURE NOTES:

- IF THE STRUCTURE THAT THE DISPLAY IS MOUNTED TO MUST BE TOTALLY ENCLOSED AND AIR CONDITIONED TO PROVIDE THE PROPER DISPLAY COOLING.
- A SPLIT SYSTEM AIR CONDITIONING SYSTEM WILL BE USED TO PROVIDE 19.8 kW of cooling.
- IF BOTH INTAKE AND EXHAUST VENT PANELS ARE OBSTRUCTED BY STRINGERS THERE MUST BE A MINIMUM OF 1" (25.4mm) CLEARANCE BETWEEN STRINGER AND VENTILATION PANEL.
- IF ONLY INTAKE OR ONLY EXHAUST VENT PANELS ARE OBSTRUCTED BY STRINGERS THERE MUST BE A MINIMUM OF 0.15" (4mm) CLEARANCE BETWEEN STRINGER AND VENTILATION PANEL.
- AIR CONDITIONING UNIT PROVIDED BY CUSTOMER.
- DUCTING FROM AIR CONDITIONING UNIT INTO THE STRUCTURE INSTALLED AND PROVIDED BY CUSTOMER'S SUBCONTRACTOR. DUCTING TO BE SIZED AS NEEDED TO MATCH AIR CONDITIONING UNIT.
- ENCLOSURE NEEDS TO HAVE A MINIMUM R-VALUE OF 6.

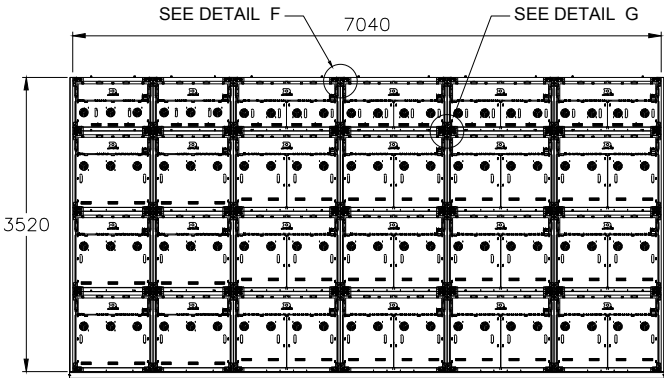
DAKTRONICS		THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2024 DAKTRONICS, INC. (USA)		THIRD ANGLE PROJECTION	
PROJECT: OCEAN OUTDOOR CHESTER ROAD PROJECT					
TITLE: SHOP DWG, DVX-2210-10 352X704@1, FRONT ACCESS		DATE: 02-JULY-2024		DIM UNITS: MILLIMETERS	
SCALE: 1=90		DO NOT SCALE DRAWING		SHEET 1 OF 1	
DESIGN: JW		JOB NO. C33055		REV 00	
DRAWN: JW		FUNC. - TYPE - SIZE F - 10 - A3		5477678	



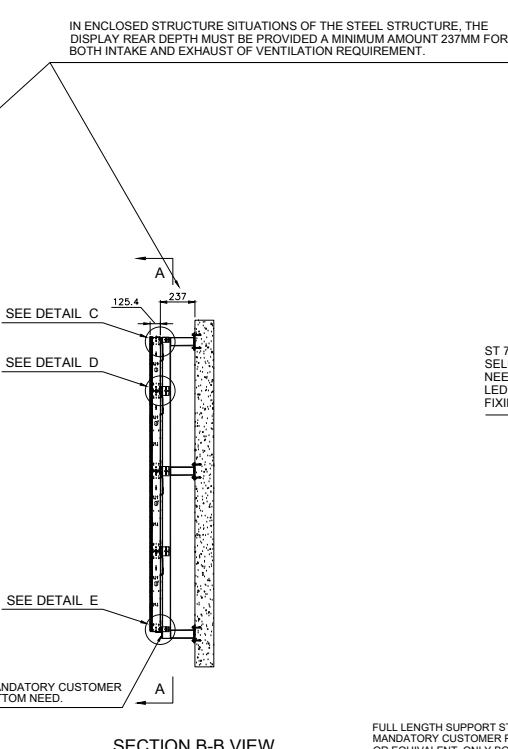
TOP VIEW



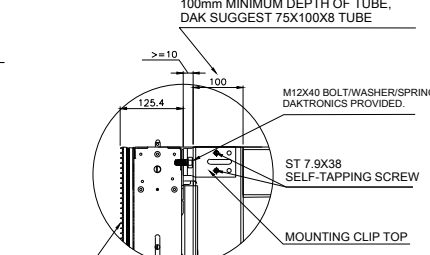
FRONT VIEW



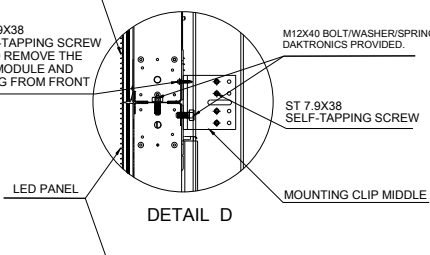
SECTION A-A VIEW



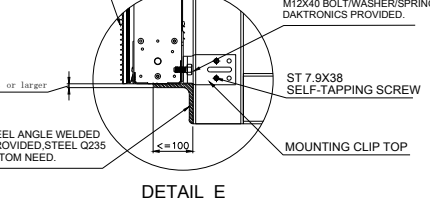
SECTION B-B VIEW



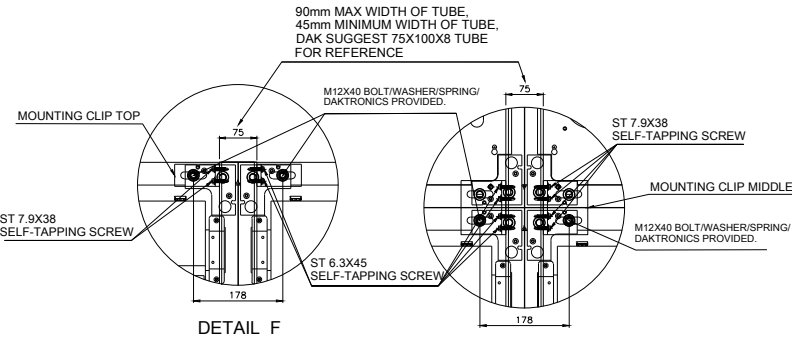
DETAIL C



DETAIL D

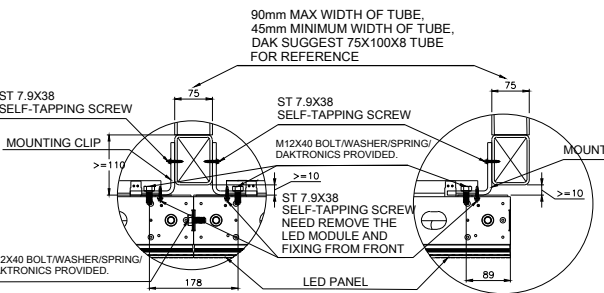


DETAIL E



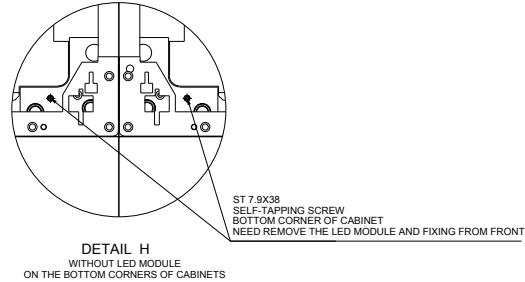
DETAIL F

DETAIL G



DETAIL A

DETAIL B



DETAIL H WITHOUT LED MODULE ON THE BOTTOM CORNERS OF CABINETS

EACH DISPLAY PARTS QUANTITY LIST

NO.	part name	part number	each display quantity (pack)	each display approx. weight(kg)	1 display quantity (pack)	description	note
1	DVX10 STD 2x4 cabinet	180	4	128.00	4	STD size: 840X1280MM, Sheet metal cabinet	DAK-provide
2	DVX10 STD 2x3 cabinet	180	2	48.00	2	STD size: 640X800MM, Sheet metal cabinet	DAK-provide
3	DVX10 STD 3x4 cabinet	180	12	468.00	12	STD size: 960X1280MM, Sheet metal cabinet	DAK-provide
4	DVX10 STD 3x3 cabinet	180	6	160.00	6	STD size: 960X800MM, Sheet metal cabinet	DAK-provide
5	Mounting clip top/bottom	HS-4800728	24	16.80	24	steel STD, 8mm thickness angle, 214 tubes,	DAK-provide
6	Mounting clip middle	HS-4800728	36	46.80	36	steel STD, 8mm thickness angle, 214 tubes,	DAK-provide
7	M12X40 BOLT	HC-487947	136	2.18	136	M12X40 BOLT, HEX, ZINC,	DAK-provide
8	M12 SPRING WASHER	HC-4879750	136	0.82	136	M12 STD spring washer, steel stainless,	DAK-provide
9	M12 FLAT WASHER	HC-4879748	136	0.68	136	M12 STD plate washer, steel stainless,	DAK-provide
10	SELF-TAPPING SCREW	HC-1764	228	3.42	228	ST 7.9X38MM, SELF-TAPPING SCREW, HEX HEAD,	DAK-provide
11	POWER AND SIGNAL CABLES	180	24	6.00	24	STD power and signal cable for cabinet connect	DAK-provide
12	TOTAL			901.00			

DVX-2210-10 CABINET SPEC LIST

SEC #	SECTION SIZE	APPROX. WEIGHT	ACTIVE AREA
101-104	64 X 128	32 kg	640 X 1280 0.82 M ²
105-106	64 X 96	24 kg	640 X 960 0.61 M ²
201-404	96 X 128	39 kg	960 X 1280 1.23 M ²
205-406	96 X 96	30 kg	960 X 960 0.92 M ²
TOTAL	352 X 704	824 kg	3520 X 7040 24.78 M ²

- NOTE:
- ALL DRAWING DIM UNIT: MM;
 - EACH DISPLAY AREA: 24.78 M²;
 - EACH DISPLAY WEIGHT ONLY: 824 KG; (WEIGHT DOES NOT INCLUDE MOUNTING CLIPS AND HARDWARE)
 - POWER AND SIGNAL CABLES WEIGHT ESTIMATE: 6kg;
 - SERVICE ACCESS: FRONT;
 - REVIEW STEEL STRUCTURE DESIGN IS RESPONSIBILITY OF CUSTOMER.
 - DRAWING IS DESIGN CONCEPT ONLY FOR REFERENCE. FINAL DETAIL DESIGN MAYBE DIFFER.

