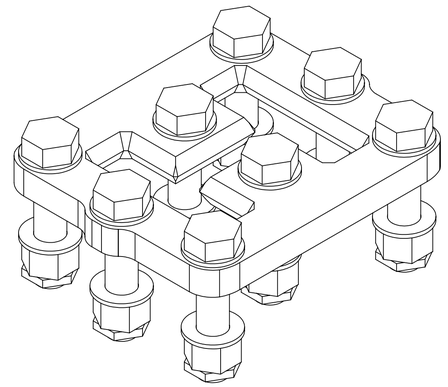
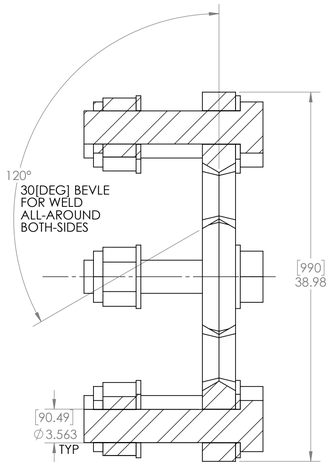
ITEM NO.	PART NUMBER	DESCRIPTION	WEIGHT [LBF]	QTY.
1	Plate base W14x665 1 20210309 S	AISI 1045, Sy 75[KSI], FOR W14x665 BEAM/S	790	1
2	Bolt ASM 3.5in HD 14.5in 1 20210310 S			8
2.1	bolt 3.5in HD 1 20210310 S	BOLT G8, 3.5[IN]-4[TPI], L=16.5[IN] GALVINIZED	62.3	1
2.2	nut 3.5in HD 1 20210310 S	NUT G8, 3.5[IN]-4[TPI] GALVINIZED	15.6	1
2.3	wash 3.5in HD 1 20210310 S	WASHER G8, 3.5[IN] GALVINIZED		2
2.4	nut 3.5in HD 1 half 20210310 S	(1/3)NUT-LOCK G8, 3.5[IN]-4[TPI] GALVINIZED		1

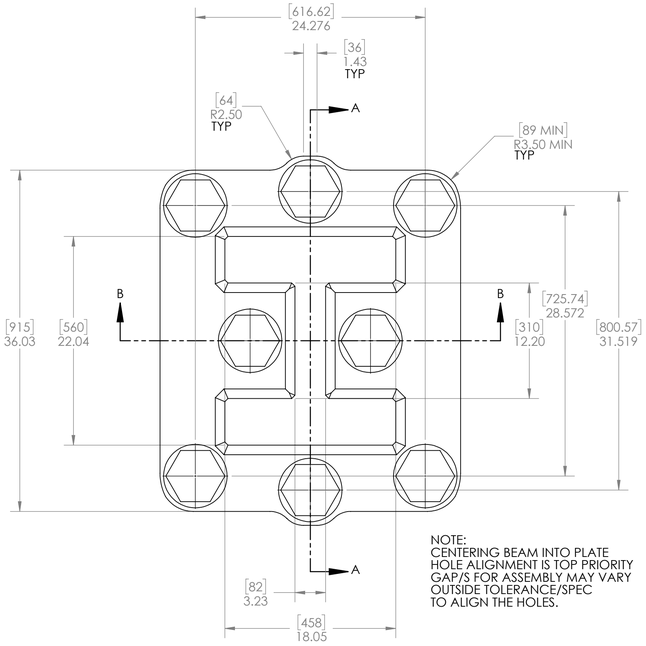
EXPECTED WELD WEIGHT = 134[LBF]



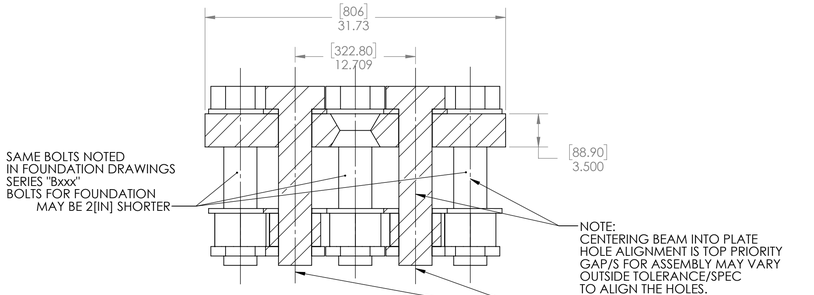
NOTE:
THIS PLATE ASM IS FOUND IN B009
FOR C16



SECTION A-A



NOTE:
CENTERING BEAM INTO PLATE
HOLE ALIGNMENT IS TOP PRIORITY
GAP/S FOR ASSEMBLY MAY VARY
OUTSIDE TOLERANCE/SPEC
TO ALIGN THE HOLES.



SECTION B-B

NOTE/S:
NO SHARP EDGES/CORNERS IN ASM
R(1/128)" MIN
OXIDATION PROTECTION FOR FULL ASM, POST WELD
ALUMINIZED TYPE II (PREF)
(OR) GALVINIZE ASTM 123 G100
MATING AREA/S MASKED
POLY-FILM FOR SHIPPING IS ACCEPTABLE
PRIOR TO ASM, OIL-SHEEN OF SAE 50+
CLASS B, AS-BUILT

EXAMPLE EXAMPLE ASAMPLE ASAMPLE TEMP [F]	TEMP [C]	T6061-T6 dL PER 1000[IN]	T6061-T6 dL PER 1000[mm]
45.00	7.22	-0.183	-4.658
59.00	15.00	0.0	0.0
86.00	30.00	0.354	8.984

EXAMPLE:
LET DIM = 47.125[IN] (T6061-T6)
dL = 0.00001318(86 - 59)47.125
dL = 0.0167[IN] (0.4234[mm])

AT 86[F] THE DIMENSION OF THE PART IS 47.125 + 0.0167 =47.142[IN]

GALVONIC PROTECTION REQUIRED:
ALUMINIZE TYPE II PREFERRED
GALVINIZE G100 ACCEPTABLE
THERMAL SPRAY AS/FOR ASSEMBLED

UNLESS OTHERWISE SPECIFIED:
TOLERANCES:
DIMENSIONS TAKEN AT 59[F]
DIMENSIONS TAKEN AT 15[C]
FRACTIONAL ±0.125[]
ANGULAR: 0.3[DEG]
TWO PLACE DECIMAL ±0.05[IN]
THREE PLACE DECIMAL ±0.005[IN]
VERIFICATION OF COMPONENTS MUST BE PERFORMED WITH TEMPERATURE COMPENSATION
INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5
PARALLEL PLANES MAX 0.002[IN]
FLATNESS MAX 0.002[IN]
FINISH: AS REQUIRED

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

GAUGE/S:
DRAWINGS ARE AT 59[F] (15[C]): REFER TO MATERIAL SUPPLIER FOR THERMAL EXPANSION COEFFICIENT (CTE)
dL(ENG) = (DIM)*(CTE)(1/K)*(TEMP-59)
dL(SI) = (DIM)*(CTE)(1/K)*(TEMP-15)
***TOLERANCES DO NOT CHANGE

CREO DESIGNS, ENG DPT

TITLE: GLORIOUS CROSS

PLATE, STD, W14x665

SIZE	DWG. NO.	REV
D	E - 002	1

SCALE: 1:8 SHEET 1 OF 1