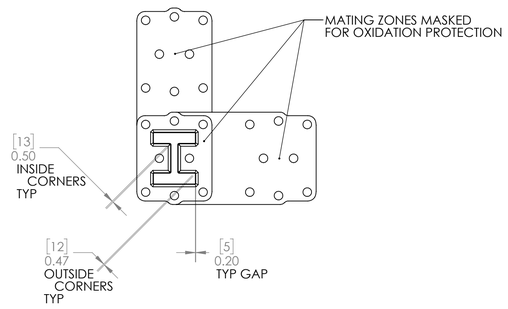
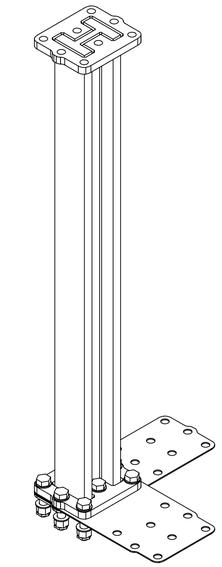
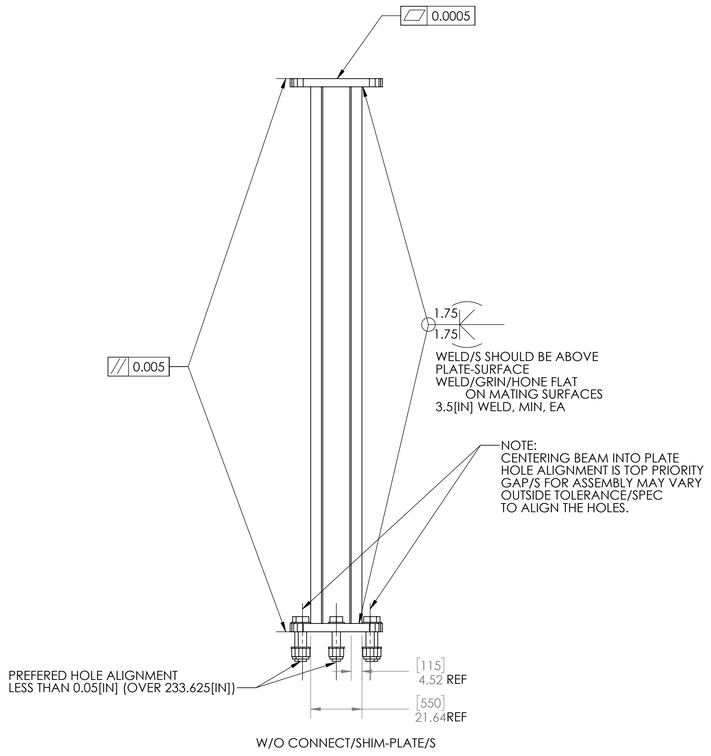
ITEM NO.	PART NUMBER	DESCRIPTION	WEIGHT	QTY.
1	W14X665 1 20210309 S			1
2	Plate base W14x665 1 20210309 S			2
3	bolt 3.5in HD 1 20210310 S			8
4	nut 3.5in HD 1 20210310 S			8
5	wash 3.5in HD 1 20210310 S			16
6	nut 3.5in HD 1 half 20210310 S			8
7	Plate connect 1 20210310 S			1
8	Plate connect 2 20210310 S			1
9	Shim Plate conct 1 20210310 S	(1/2)[IN] SHIM-PLATE		1

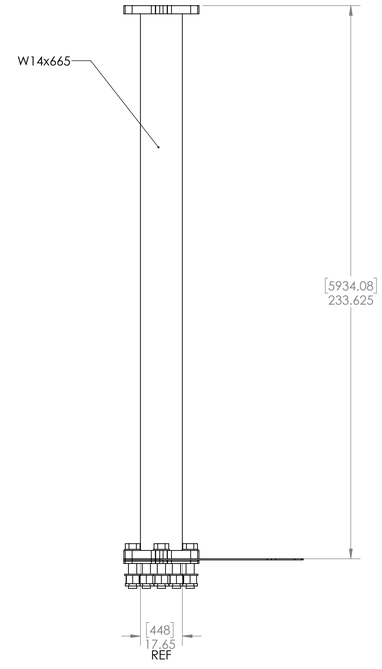




OUTSIDE CORNER BEAM SHOWN



W/O CONNECT/SHIM-PLATE/S



NOTE/S:
NO SHARP EDGES/CORNERS
W14 BEAMS, ASTM 913 G65
PLATE/S, AISI 1045, Sy 75[KSI]
OXIDATION PROTECTION
ALUMINIZATION TYPE II (PREF)
GALV, ASTM 123, G100
MASK MATING SURFACE/S
POLY-FILM/SHEET OR OTHER FOR SHIPPING
OIL-SHEEN, SAE 50+ FOR ASM
NO AGGLOMERATION
CAD DATA IS MASTER

EXAMPLE AMBIENT TEMP [F]	EXAMPLE AMBIENT 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 = 0.0000131[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 PREFERED
GALVINIZE G100 ACCEPTABLE
THERMAL SPRAY AS/FOR ASSEMBLED

UNLESS OTHERWISE SPECIFIED:
TOLERANCES:
DIMENSIONS TAKEN AT 59[F]
DIMENSIONS TAKEN AT 15[C]
FRACTIONAL±0.13[%]
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 COEFFICENT (CTE)
dL(ENG) = (DIM)*(CTE[1/R])*(TEMP-59)
dL(SI) = (DIM)*(CTE[1/K])*(TEMP-15)
***TOLERANCES DO NOT CHANGE

CREO DESIGNS, ENG DPT

TITLE: GLORIOUS CROSS

W14x665 STD
BEAM ASM

SIZE	DWG. NO.	REV
D	E - 005	1

SCALE: 1:32 SHEET 1 OF 1