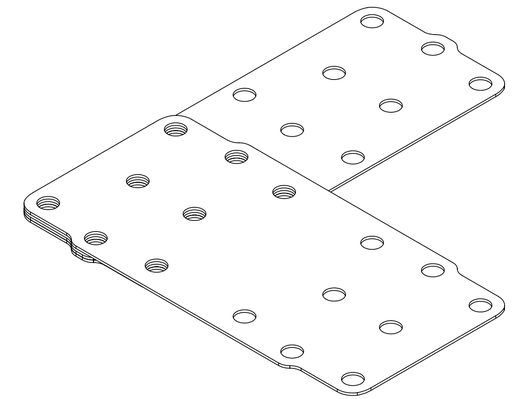
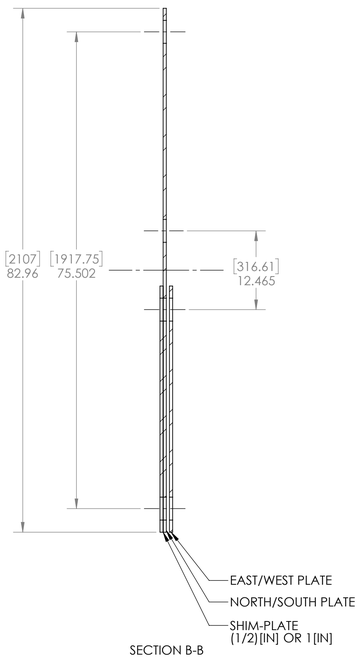
| ITEM NO. | PART NUMBER | DESCRIPTION | WEIGHT [LBF] | QTY. |
|---|---|---|---|---|
| 1 | Plate connect 1 20210310 S | (1/2)[IN] CONNECTING PLATE FOR EAST-WEST | 382.4 | 1 |
| 2 | Plate connect 2 20210310 S | (1/2)[IN] CONNECTING PLATE FOR NORTH-SOUTH | 337.2 | 1 |
| 3 | Shim Plate conct 1 20210310 S | (1/2)[IN] SHIM-PLATE FOR OFF-SET/S | 160.1 | 1 |

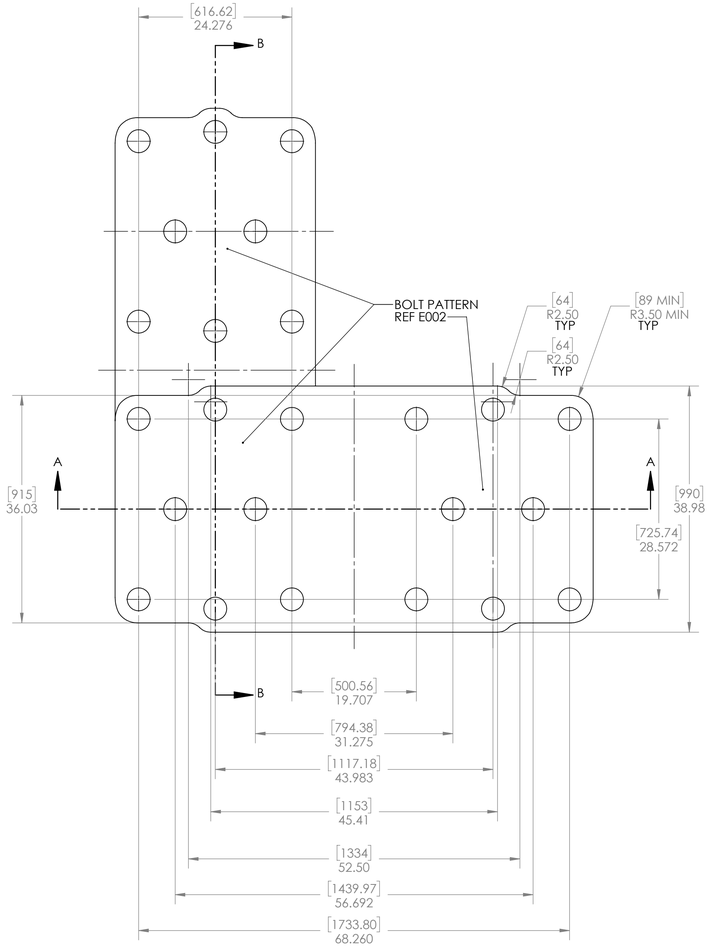
| ITEM NO. | PART NUMBER | DESCRIPTION | WEIGHT [LBF] | QTY. |
|---|---|---|---|---|
| 1 | Shim Plate conct 1 20210310 S | 1[IN] SHIM-PLATE FOR OFF-SET/S | 302.0 | 1 |

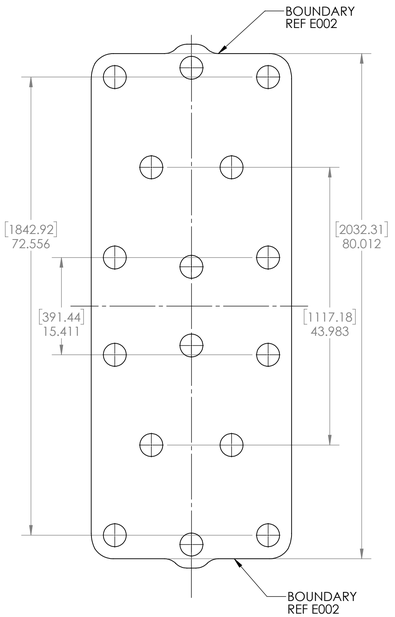


CORNER CONNECTION/SHIM-PLATE
CONFIGURATION SHOWN
ALL BEAMS HAVE 2[IN] OF SOME CONNECTION/SHIM
(x4) PLATES FOR EACH BEAM MATING SURFACE

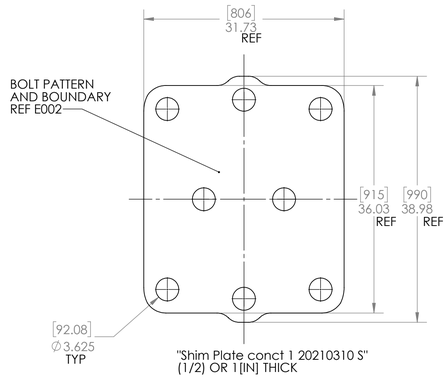



SECTION B-B

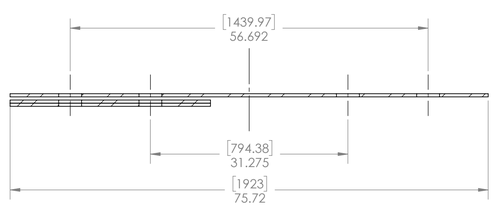



"Plate connect 2 20210310 S"
CONNECTING PLATE FOR NORTH-SOUTH




"Shim Plate conct 1 20210310 S"
(1/2) OR 1[IN] THICK




SECTION A-A

NOTE/S:
NO SHARP EDGES/CORNERS
ALUMINIZATION TYPE II PREFERED
GALVINIZATION G100 (OPTION)
MASKING OF MATING SURFACES
OIL-SHEEN, SAE 50+ PRIOR TO ASM
PROTECTIVE SHEET/S FOR SHIPPING
AISI 1045, Sy 75[KSI] (MIN)
FLATNESS 0.0003[IN]
PARALLEL 0.0002[IN]
CAD 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 | 8.994 |

EXAMPLE:
LET DIA = 47.125[IN] [T6061-T4]
dL = 0.000013[86 - 59]47.125
dL = 0.0167[IN] [0.4254[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[75]
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)/(K)]*(TEMP-59)
dL[SI] = (DIM)*(CTE)/(K)]*(TEMP-15)
***TOLERANCES DO NOT CHANGE

CREO DESIGNS, ENG DPT

TITLE: GLORIOUS CROSS
PLATE/S
CONNECT/SHIM - 1

| SIZE | DWG. NO. | REV |
|---|---|---|
| D | E - 003 | 1 |

SCALE: 1:12 | SHEET 1 OF 1