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**Extruded Field Half BOM**

**Title:** Extruded Field Half BOM

**Size:** A

**Field:**

**Scale:** 1:128

**Weight:**

**Sheet:** 1 of 42

**UNLESS OTHERWISE SPECIFIED:**

**DIMENSIONS ARE IN INCHES**

**TOLERANCES:**

- **FRACTIONAL:** ± 0.001
- **ANGULAR:** Mach ± 1°
- **BEND:** Two Place Decimal ± 0.01°
- **TWO PLACE DECIMAL:** ± 0.001
- **THREE PLACE DECIMAL:** ± 0.000

**INTERPRET GEOMETRIC TOLERANCING PER:**

**MATERIAL:**

**FINISH:**

**DO NOT SCALE DRAWING**

**CHECKED:**

**ENG APPR.:**

**MFG APPR.:**

**Q.A.:**

**COMMENTS:**

**DRAWN:**

**NAME:**

**DATE:** 3-11-14

**REV:**

**TITLE:** Extruded Field Half BOM

**SIZE:** A

**DWG. NO.:** Field

**WEIGHT:**

**SCALE:** 1:128

**SHEET:** 1 of 42
Saw Cut Finish On Ends

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH 5° BEND 5°
TWO PLACE DECIMAL ±0.010
THREE PLACE DECIMAL ±0.005

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL: Aluminum
FINISH: Hard Clear Anodize

DRAWN
CHECKED
ENG APPR.
MFG APPR.
Q.A.
COMMENTS:

UNLESS OTHERWISE SPECIFIED:

SCALE: 1:16 WEIGHT: SHEET 2 OF 42

TITLE: Upright Inside Right End

NAME DATE

MARK 12-26-13

SIZE DWG. NO. REV

A am-2804-01 2
UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH BEND ±15°
TWO PLACE DECIMAL ±0.010
THREE PLACE DECIMAL ±0.005

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL: Aluminum
FINISH: Hard Clear Anodize

DRAWN: [Name]
CHECKED: [Name]
ENG APPR.: [Name]
MFG APPR.: [Name]

COMMENTS:

TITLE: Upright Outside Right End

SIZE: A
DWG. NO.: am-2804-02
REV: 2
SCALE: 1:16
WEIGHT:
SHEET 3 OF 42
UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL ±

ANGULAR: MACH +/− 45°

TWO PLACE DECIMAL ±0.01

THREE PLACE DECIMAL ±0.005

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL: Aluminum

FINISH: Hard Clear Anodize

DO NOT SCALE DRAWING

TITLE: Corner Lock

SIZE: A

DWG. NO. am-2804-03

REV 1

SCALE: 1:1

WEIGHT:

SHEET 4 OF 42
UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRATIONAL ±
ANGULAR: MACH ± 5°
TWO PLACE DECIMAL ± 0.01
THREE PLACE DECIMAL ± 0.005

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL: Aluminum
FINISH: Hard Clear Anodize

D.313 4.000 11.350 15.350

∅ .190 thru hole (2)
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**TITLE:** Upright Middle Pipe

**SIZE** A
**DWG. NO.** am-2806-08
**REV** 1

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**COMMENTS:**

- ø .260 thru hole (2)
- ø .190 thru hole (3)
- ø 1.315
- ø 1.050
- 22°
Side Rail Link Pipe

MATERIAL: Aluminum
FINISH: 

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL 
ANGULAR: MACH\+ BEND 0.5°
TWO PLACE DECIMAL 0.010
THREE PLACE DECIMAL 0.005

INTERPRET GEOMETRIC TOLERANCING PER:

FINISH

SCALE: 1:4
WEIGHT: 

SHEET 13 OF 42
DETAIL C
SCALE 1 : 2

SAW CUT
FINISH

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH + 0.5*
TWO PLACE DECIMAL ±0.01
THREE PLACE DECIMAL ±0.005

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL  Aluminum
FINISH  Hard Clear Anodize

UNLESS OTHERWISE SPECIFIED:

DRAWN  MK  12-26-13
CHECKED
ENG APPR.
MFG APPR.
Q.A.
COMMENTS:

TITLE: Gate Top Long Extrusion

SIZE  A
DWG. NO.  am-2802-15
REV  2

SCALE: 1:8  WEIGHT:  SHEET 16 OF 42
### Slide Lock

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**Title:** Slide Lock

**Size:** A

**Drawing No.:** am-2802-20

**Revision:** 1

**Scale:** 1:2

**Material:** 6061 Aluminum

**Finish:**

**Tapped Hole:** 1/4-20

**Dimensions:**
- **2.000**
- **1.315**
- **1.050**
- **.250**
- **.100**
- **.201**
- **.16 deep**
- **.250**
- **8.000**

**Notes:**
- **Slide Lock**
- **22°**
- **.010**
- **.005**
- **.201 .16 deep**
- **.201 .16 deep**
- **.201 .16 deep**
- **.201 .16 deep**

**Drawn:** MK 12-26-13

**Checked:**

**Q.A.:**

**MFG APPR.:**

**ENG APPR.:**

**Comments:**

**Sheet:** 21 of 42
UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± BEND ±5°
TWO PLACE DECIMAL ±0.01
THREE PLACE DECIMAL ±0.005

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL: Aluminum
FINISH: Hard Clear Anodize

Rail End Extrusion

DRAWN: MK 12-26-13
CHECKED
ENG APPR.
MFG APPR.
Q.A.
COMMENTS:

SHEET 22 OF 42

.313

ϕ 0.190 thru hole (3)
**DETAIL G**

**SCALE 1:1**

- **Φ.188 (66)**
- **2.0 (33)**
- **.313**
- **68.0**
- **.063**
- **1.5**
- **Φ.125**

**UNLESS OTHERWISE SPECIFIED:**

- **SCALE:** 1:12
- **WEIGHT:**

**DIMENSIONS ARE IN INCHES**

- **TOLERANCES:**
  - FRACTIONAL
  - ANGULAR: MACH. BEND ± 0.5°
  - TWO PLACE DECIMAL: ±0.010
  - THREE PLACE DECIMAL: ±0.005

**INTERPRET GEOMETRIC TOLERANCING PER:**

- **MATERIAL**
- **FINISH**

**DRAWN MK 12-26-13**

**TITLE:**

FRC Perimeter - Player Station Shelf Hinge

**SIZE DWG. NO. REV**

A ip-2802-25 1

**SCALE: 1:12 WEIGHT:** SHEET 26 OF 42
UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL: ±
ANGULAR: MACH: ±45°
TWO PLACE DECIMAL: ±0.01
THREE PLACE DECIMAL: ±0.005

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL: Aluminum
FINISH: Hard Clear Anodize

DO NOT SCALE DRAWING

CORNER EXTRUSION

TITLE:

Corner Extrusion

SIZE: A
DWG. NO.: am-2805-26
REV: 2

SCALE: 1:8
WEIGHT:
SHEET 27 OF 42

NAME DATE
DRAWN MK 12-26-13
CHECKED
ENG APPR.
MFG APPR.
Q.A.
COMMENTS:

0.313

1.68

4.31

24.21

\( \phi .260 \) (2)
thru hole

44.11

47.20

48.88

.828

(2.406)

5 4 3 2 1

\( \phi .190 \) (3)
thru hole

2.406
UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ±45°
TWO PLACE DECIMAL ±0.01
THREE PLACE DECIMAL ±0.005

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL
Clear Polycarbonate

FINISH

Mk

Q.A.

COMMENTS:

UNLESS OTHERWISE SPECIFIED:

SCALE: 1:24
WEIGHT:

TITLE:
Upright Polycarbonate

SIZE
A

DWG. NO.
ip-2804_poly

REV
1

SHET 32 OF 42

DRAWN
MK
12-26-13

CHECKED
ENG APPR.

MFG APPR.

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**Outrig**

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Corner Spacer

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± 45°
TWO PLACE DECIMAL ±0.010
THREE PLACE DECIMAL ±0.005

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL: PVC
FINISH: 

UNLESS OTHERWISE SPECIFIED:
SCALE: 1:2
WEIGHT: 

DO NOT SCALE DRAWING

NAME DATE
DRAWN MK 12-26-13
CHECKED 
ENG APPR: 
MFG APPR: 
Q.A.: 
COMMENTS: 

TITLE: 

SIZE DWG. NO. REV
A ip-2804_spacer 2

Sheet 39 of 42
Station Anchor

5052 Aluminum

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL: ±
ANGULAR: MACH: ± 5°
TWO PLACE DECIMAL: ± 0.01
THREE PLACE DECIMAL: ± 0.005

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL: 5052 Aluminum
FINISH: 

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED:

NAME: 
DATE: 

DRAWN: MK 4-15-14
CHECKED:
ENG APPR.:
MFG APPR.:
Q.A.:

COMMENTS:

TITLE:

SCALE: 1:4
WEIGHT:
SHEET 40 OF 42

REV 3

am-2991
UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL
ANGULAR: MACH \pm 45°
TWO PLACE DECIMAL \pm 0.01
THREE PLACE DECIMAL \pm 0.005

INTERPRET GEOMETRIC
TOLERANCING PER:

MATERIAL
Aluminum 6063

FINISH

DO NOT SCALE DRAWING

TITLE:
Hinge Spacer
Gate Arm

NAME

DATE

MARKING

12-26-13

DRAWN
MK

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:

SCALE: 2:1
WEIGHT:

SHEET 41 OF 42

A
ip-2802_spacer

REV
1
UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL \pm

ANGULAR: MACH \pm 45°

TWO PLACE DECIMAL \pm0.01

THREE PLACE DECIMAL \pm0.005

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

Corner Pin

MK

9-29-14

UNLESS OTHERWISE SPECIFIED:

SCALE: 1:8 WEIGHT: SHEET 42 OF 42

Corner Pin

MK

9-29-14