

1U CubeSat Acceptance Checklist (Reference Cal Poly CIFP for instructions)

Project: _____

Date/Time: _____

Engineers: _____

Organization: _____

Location: _____

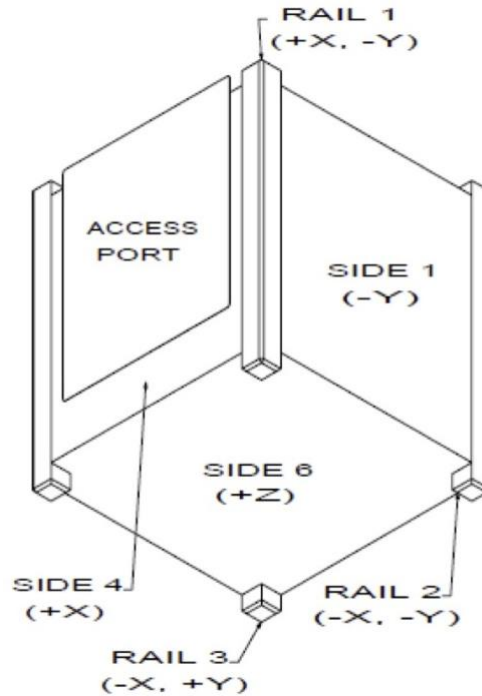
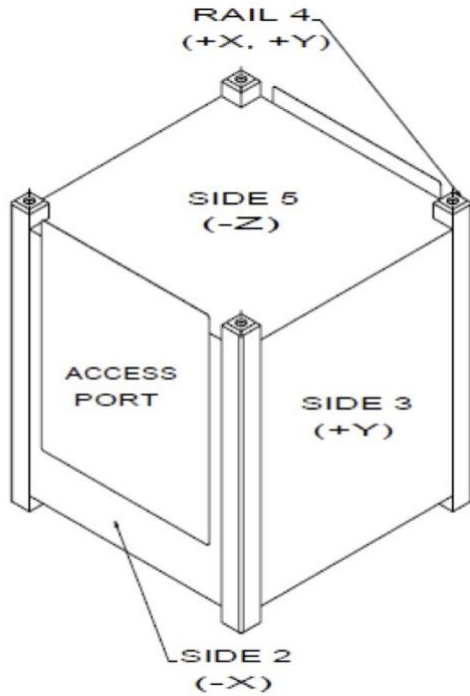
Satellite Name: _____

Satellite S/N: _____

Revision Date: 03/30/2020

Mass (< 2.00 kg)	_____	RBF Pin ($\leq 6.5\text{mm}$)	_____
Separation Mechanisms (Depressed)	Functional Y / N	Rails Anodized	Y / N
Deployment Switches (Depressed)	Flush with Standoff Y / N	Deployables Constrained	Y / N

Mark on the diagram the locations of the RBF pin, connectors, deployables, and any envelope violations.



Authorized By: _____
 IT #1: _____
 IT #2: _____
 Passed: Y / N

List Item	As Measured				Required
Width [x-y]	Side 1 (-Y)	Side 2 (-X)	Side 3 (+Y)	Side 4 (+X)	
+Z	_____	_____	_____	_____	100.0 ± 0.1mm
Middle	_____	_____	_____	_____	100.0 ± 0.1mm
-Z	_____	_____	_____	_____	100.0 ± 0.1mm
Length [x-y]	Rail 1 (+X, -Y)	Rail 2 (-X, -Y)	Rail 3 (-X, +Y)	Rail 4 (+X, +Y)	
	_____	_____	_____	_____	113.5 ± 0.1mm
+Z Standoffs	Rail 1 (+X, -Y) length x width	Rail 2 (-X, -Y) length x width	Rail 3 (-X, +Y) length x width	Rail 4 (+X, +Y) length x width	
	___ x ___	___ x ___	___ x ___	___ x ___	≥ 6.5mm
-Z Standoffs	_____	_____	_____	_____	≥ 6.5mm

List Item	As Measured				Required	
Protrusion-Edge Distance	Rail 1 (-Y)	Rail 2 (-Y)	Rail 3 (+Y)	Rail 4 (+X)		
	+Z	_____	_____	_____	_____	³ 8.5mm
	Middle	_____	_____	_____	_____	³ 8.5mm
	-Z	_____	_____	_____	_____	³ 8.5mm
Protrusion-Edge Distance	Rail 1 (+X)	Rail 2 (-X)	Rail 3 (-X)	Rail 4 (+Y)		
	+Z	_____	_____	_____	_____	³ 8.5mm
	Middle	_____	_____	_____	_____	³ 8.5mm
	-Z	_____	_____	_____	_____	³ 8.5mm
Protrusions	Side 1 (-Y)	Side 2 (-X)	Side 3 (+Y)	Side 4 (+X)		
	_____	_____	_____	_____	$\leq 6.5mm$	
Z Face Protrusions	Side 5 (-Z)	Side 6 (+Z)				
	_____	_____			Below plane of standoff ends	

1.5U CubeSat Acceptance Checklist (Reference Cal Poly CIFP for instructions)

Project: _____

Date/Time: _____

Engineers: _____

Organization: _____

Location: _____

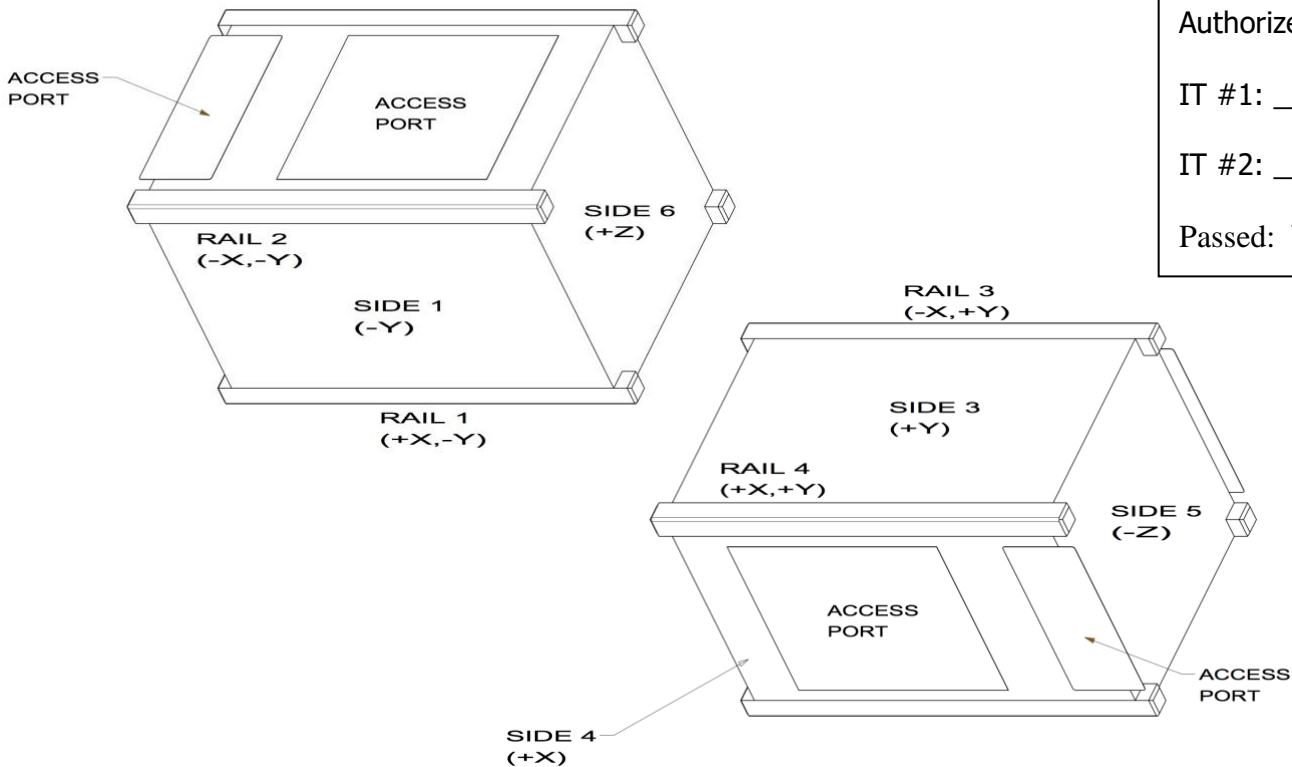
Satellite Name: _____

Satellite S/N: _____

Revision Date: 03/30/2020

Mass (< 3.00 kg)	_____	RBF Pin ($\leq 6.5\text{mm}$)	_____
Separation Mechanisms (Depressed)	Functional Y / N Flush with Standoff Y / N	Rails Anodized	Y / N
Deployment Switches (Depressed)	Functional Y / N Flush with Standoff Y / N	Deployables Constrained	Y / N

Mark on the diagram the locations of the RBF pin, connectors, deployables, and any envelope violations.



Authorized By: _____

IT #1: _____

IT #2: _____

Passed: Y / N

List Item	As Measured				Required
Width [x-y]	Side 1 (-Y)	Side 2 (-X)	Side 3 (+Y)	Side 4 (+X)	
+Z	_____	_____	_____	_____	100.0 ± 0.1mm
Middle	_____	_____	_____	_____	100.0 ± 0.1mm
-Z	_____	_____	_____	_____	100.0 ± 0.1mm
Length [x-y]	Rail 1 (+X, -Y)	Rail 2 (-X, -Y)	Rail 3 (-X, +Y)	Rail 4 (+X, +Y)	
	_____	_____	_____	_____	170.2 ± 0.1mm
	Rail 1 (+X, -Y) length x width	Rail 2 (-X, -Y) length x width	Rail 3 (-X, +Y) length x width	Rail 4 (+X, +Y) length x width	
+Z Standoffs	____ x ____	____ x ____	____ x ____	____ x ____	≥ 6.5mm
-Z Standoffs	____ x ____	____ x ____	____ x ____	____ x ____	≥ 6.5mm

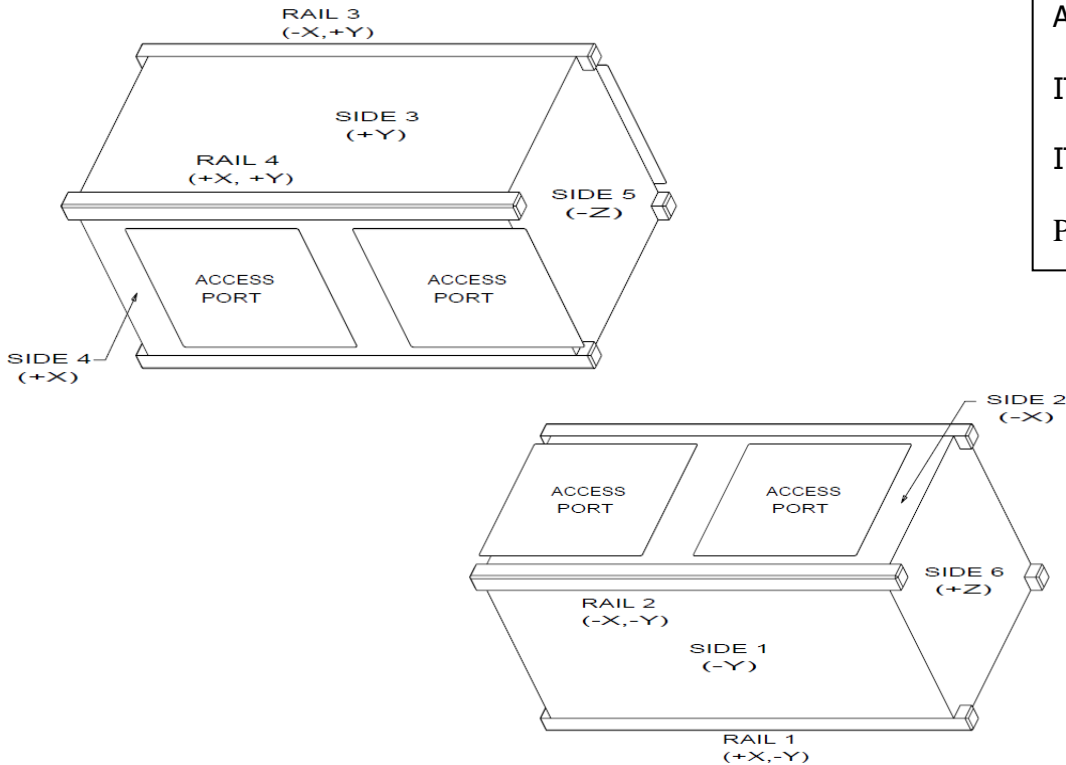
List Item	As Measured				Required
Protrusion-Edge Distance	Rail 1 (-Y)	Rail 2 (-Y)	Rail 3 (+Y)	Rail 4 (+X)	
+Z	_____	_____	_____	_____	³ 8.5mm
Middle	_____	_____	_____	_____	³ 8.5mm
-Z	_____	_____	_____	_____	³ 8.5mm
Protrusion-Edge Distance	Rail 1 (+X)	Rail 2 (-X)	Rail 3 (-X)	Rail 4 (+Y)	
+Z	_____	_____	_____	_____	³ 8.5mm
Middle	_____	_____	_____	_____	³ 8.5mm
-Z	_____	_____	_____	_____	³ 8.5mm
Protrusions	Side 1 (-Y)	Side 2 (-X)	Side 3 (+Y)	Side 4 (+X)	
	_____	_____	_____	_____	≤ 6.5mm
Z Face Protrusions	Side 5 (-Z)	Side 6 (+Z)			
	_____	_____			Below plane of standoff ends

2U CubeSat Acceptance Checklist (Reference Cal Poly C1FP for instructions)

Project: _____ Date/Time: _____ Engineers: _____
 Organization: _____ Location: _____
 Satellite Name: _____ Satellite S/N: _____ *Revision Date: 03/30/2020*

Mass (< 4.00 kg)	_____	RBF Pin ($\leq 6.5\text{mm}$)	_____
Separation Mechanisms (Depressed)	Functional Y / N Flush with Standoff Y / N	Rails Anodized	Y / N
Deployment Switches (Depressed)	Functional Y / N Flush with Standoff Y / N	Deployables Constrained	Y / N

Mark on the diagram the locations of the RBF pin, connectors, deployables, and any envelope violations.



Authorized By: _____
 IT #1: _____
 IT #2: _____
 Passed: **Y / N**

List Item	As Measured				Required
Width [x-y]	Side 1 (-Y)	Side 2 (-X)	Side 3 (+Y)	Side 4 (+X)	
+Z	_____	_____	_____	_____	100.0 ± 0.1mm
Middle	_____	_____	_____	_____	100.0 ± 0.1mm
-Z	_____	_____	_____	_____	100.0 ± 0.1mm
Length [x-y]	Rail 1 (+X, -Y)	Rail 2 (-X, -Y)	Rail 3 (-X, +Y)	Rail 4 (+X, +Y)	
	_____	_____	_____	_____	227.0 ± 0.2mm
	Rail 1 (+X, -Y) length x width	Rail 2 (-X, -Y) length x width	Rail 3 (-X, +Y) length x width	Rail 4 (+X, +Y) length x width	
+Z Standoffs	____ x ____	____ x ____	____ x ____	____ x ____	≥ 6.5mm
-Z Standoffs	____ x ____	____ x ____	____ x ____	____ x ____	≥ 6.5mm

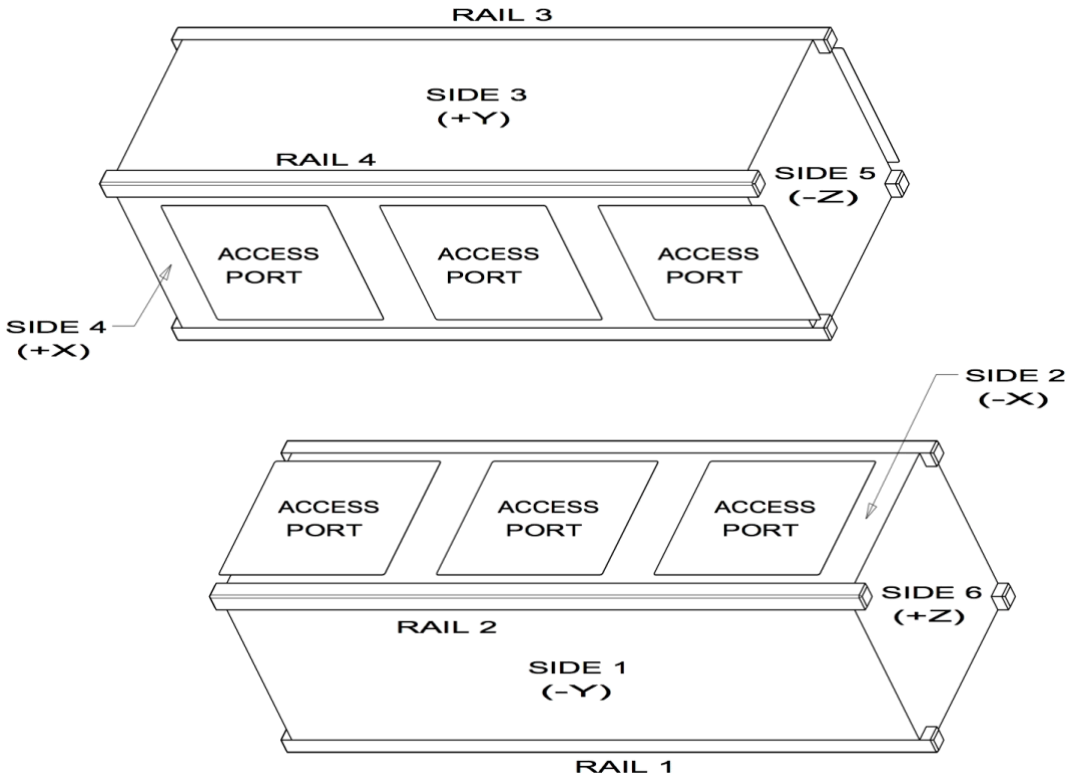
List Item	As Measured				Required	
Protrusion-Edge Distance	Rail 1 (-Y)	Rail 2 (-Y)	Rail 3 (+Y)	Rail 4 (+X)		
	+Z	_____	_____	_____	_____	³ 8.5mm
	Middle	_____	_____	_____	_____	³ 8.5mm
	-Z	_____	_____	_____	_____	³ 8.5mm
Protrusion-Edge Distance	Rail 1 (+X)	Rail 2 (-X)	Rail 3 (-X)	Rail 4 (+Y)		
	+Z	_____	_____	_____	_____	³ 8.5mm
	Middle	_____	_____	_____	_____	³ 8.5mm
	-Z	_____	_____	_____	_____	³ 8.5mm
Protrusions	Side 1 (-Y)	Side 2 (-X)	Side 3 (+Y)	Side 4 (+X)		
	_____	_____	_____	_____	$\leq 6.5mm$	
Z Face Protrusions	Side 5 (-Z)	Side 6 (+Z)				
	_____	_____			Below plane of standoff ends	

3U CubeSat Acceptance Checklist (Reference Cal Poly CIFP for instructions)

Project: _____ Date/Time: _____ Engineers: _____
 Organization: _____ Location: _____
 Satellite Name: _____ Satellite S/N: _____ *Revision Date: 03/30/2020*

Mass (< 6.00 kg)	_____	RBF Pin ($\leq 6.5\text{mm}$)	_____
Separation Mechanisms (Depressed)	Functional Y / N Flush with Standoff Y / N	Rails Anodized	Y / N
Deployment Switches (Depressed)	Functional Y / N Flush with Standoff Y / N	Deployables Constrained	Y / N

Mark on the diagram the locations of the RBF pin, connectors, deployables, and any envelope violations.



Authorized By: _____
 IT #1: _____
 IT #2: _____
 Passed: Y / N

List Item	As Measured				Required	
Width [x-y]	Side 1 (-Y)	Side 2 (-X)	Side 3 (+Y)	Side 4 (+X)		
	+Z	_____	_____	_____	_____	$100.0 \pm 0.1\text{mm}$
	Middle	_____	_____	_____	_____	$100.0 \pm 0.1\text{mm}$
	-Z	_____	_____	_____	_____	$100.0 \pm 0.1\text{mm}$
Length [x-y]	Rail 1 (+X, -Y)	Rail 2 (-X, -Y)	Rail 3 (-X, +Y)	Rail 4 (+X, +Y)		
	_____	_____	_____	_____		$340.5 \pm 0.3\text{mm}$
+Z Standoffs	Rail 1 (+X, -Y) length x width	Rail 2 (-X, -Y) length x width	Rail 3 (-X, +Y) length x width	Rail 4 (+X, +Y) length x width		
	____ x ____	____ x ____	____ x ____	____ x ____		$\geq 6.5\text{mm}$
-Z Standoffs	____ x ____	____ x ____	____ x ____	____ x ____		$\geq 6.5\text{mm}$

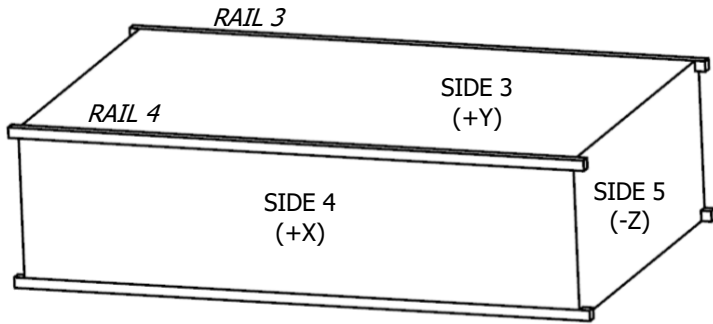
List Item	As Measured				Required	
Protrusion-Edge Distance	Rail 1 (-Y)	Rail 2 (-Y)	Rail 3 (+Y)	Rail 4 (+X)		
	+Z	_____	_____	_____	_____	³ 8.5mm
	Middle	_____	_____	_____	_____	³ 8.5mm
	-Z	_____	_____	_____	_____	³ 8.5mm
Protrusion-Edge Distance	Rail 1 (+X)	Rail 2 (-X)	Rail 3 (-X)	Rail 4 (+Y)		
	+Z	_____	_____	_____	_____	³ 8.5mm
	Middle	_____	_____	_____	_____	³ 8.5mm
	-Z	_____	_____	_____	_____	³ 8.5mm
Protrusions	Side 1 (-Y)	Side 2 (-X)	Side 3 (+Y)	Side 4 (+X)		
	_____	_____	_____	_____	$\leq 6.5mm$	
Z Face Protrusions	Side 5 (-Z)	Side 6 (+Z)				
	_____	_____			Below plane of standoff ends	

6U CubeSat Acceptance Checklist (Reference Cal Poly CIPF for instructions)

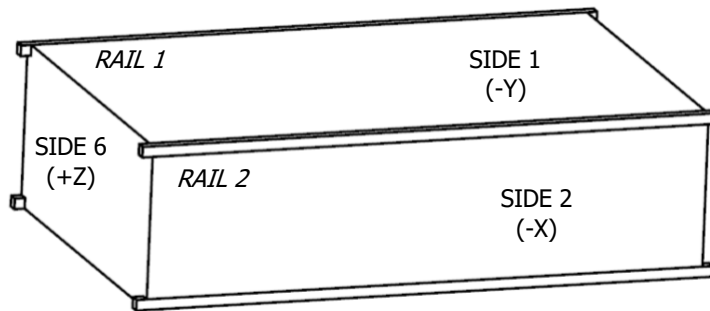
Project: _____ Date/Time: _____ Engineers: _____
 Organization: _____ Location: _____
 Satellite Name: _____ Satellite S/N: _____ *Revision Date: 03/30/2020*

Mass (< 12.00 kg)	_____	RBF Pin ($\leq 6.5\text{mm}$)	_____
Deployment Switches (Depressed)	Functional Y / N Flush with Standoff Y / N	Deployables Constrained	Y / N
Rails Anodized	Y / N		

Mark on the diagram the locations of the RBF pin, connectors, deployables, Protrusion, and any envelope violations.



Authorized By: _____
 IT #1: _____
 IT #2: _____
 Passed: **Y / N**



List Item	As Measured			Required
	+Z	Middle	-Z	
Width [x-y]				
Side 1 (-Y)	_____	_____	_____	$226.3 \pm 0.1\text{mm}$
Side 2 (-X)	_____	_____	_____	$100.0 \pm 0.1\text{mm}$
Side 3 (+Y)	_____	_____	_____	$226.3 \pm 0.1\text{mm}$
Side 4 (+X)	_____	_____	_____	$100.0 \pm 0.1\text{mm}$
Length [x-y]	Rail 1 (+X, -Y)	Rail 2 (-X, -Y)	Rail 3 (-X, +Y)	Rail 4 (+X, +Y)
	_____	_____	_____	_____
				$366.0 \pm 0.1\text{mm}$
	Rail 1 (+X, -Y) length x width	Rail 2 (-X, -Y) length x width	Rail 3 (-X, +Y) length x width	Rail 4 (+X, +Y) length x width
+Z Standoffs	____ x ____	____ x ____	____ x ____	____ x ____
-Z Standoffs	____ x ____	____ x ____	____ x ____	____ x ____
				$\geq 6.5\text{mm}$
				$\geq 6.5\text{mm}$

List Item	As Measured				Required
Protrusion-Edge Distance	Rail 1 (-Y)	Rail 2 (-Y)	Rail 3 (+Y)	Rail 4 (+X)	
+Z	_____	_____	_____	_____	³ 8.5mm
Middle	_____	_____	_____	_____	³ 8.5mm
-Z	_____	_____	_____	_____	³ 8.5mm
Protrusion-Edge Distance	Rail 1 (+X)	Rail 2 (-X)	Rail 3 (-X)	Rail 4 (+Y)	
+Z	_____	_____	_____	_____	³ 8.5mm
Middle	_____	_____	_____	_____	³ 8.5mm
-Z	_____	_____	_____	_____	³ 8.5mm
Protrusions	Side 1 (-Y)	Side 2 (-X)	Side 3 (+Y)	Side 4 (+X)	
	_____	_____	_____	_____	≤ 6.5mm
Z Face Protrusions	Side 5 (-Z)	Side 6 (+Z)			
	_____	_____			Below plane of standoff ends

12U CubeSat Acceptance Checklist (Reference Cal Poly C1FP for instructions)

Project: _____

Date/Time: _____

Engineers: _____

Organization: _____

Location: _____

Satellite Name: _____

Satellite S/N: _____

Revision Date: 03/30/2020

Mass (< 24.00 kg) _____

RBF Pin ($\leq 6.5\text{mm}$) _____

Deployment Switches (Depressed)

Functional Y / N

Flush with Standoff Y / N

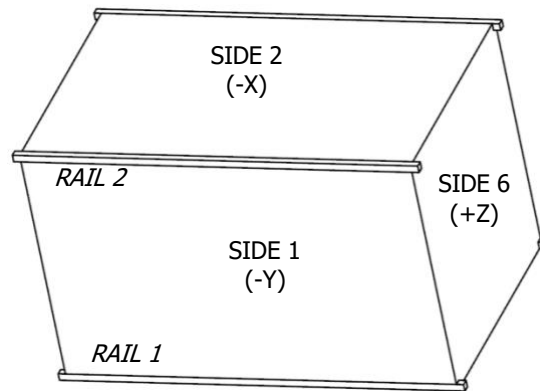
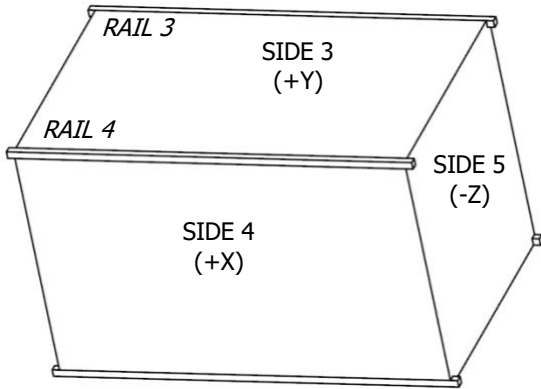
Deployables Constrained

Y / N

Rails Anodized

Y / N

Mark on the diagram the locations of the RBF pin, connectors, deployables, Protrusion, and any envelope violations.



Authorized By: _____

IT #1: _____

IT #2: _____

Passed: **Y / N**

List Item	As Measured					Required
Width [x-y]	Side 1 (-Y)	Side 2 (-X)	Side 3 (+Y)	Side 4 (+X)		
+Z	_____	_____	_____	_____		226.3 ± 0.1mm
Middle	_____	_____	_____	_____		226.3 ± 0.1mm
-Z	_____	_____	_____	_____		226.3 ± 0.1mm
Height [x-y]	Rail 1 (+X, -Y)	Rail 2 (-X, -Y)	Rail 3 (-X, +Y)	Rail 4 (+X, +Y)		366.0 ± 0.1mm
	_____	_____	_____	_____		
	Rail 1 (+X, -Y) length x width	Rail 2 (-X, -Y) length x width	Rail 3 (-X, +Y) length x width	Rail 4 (+X, +Y) length x width		
+Z Standoffs	____ x ____	____ x ____	____ x ____	____ x ____		≥ 6.5mm
-Z Standoffs	____ x ____	____ x ____	____ x ____	____ x ____		≥ 6.5mm
Protrusions	Side 1 (-Y)	Side 2 (-X)	Side 3 (+Y)	Side 4 (+X)	Side 5 (-Z)	Side 6 (+Z)
	_____	_____	_____	_____	_____	_____
						≤ 6.5mm

List Item	As Measured				Required	
Protrusion-Edge Distance +Z Middle -Z	Rail 1 (-Y) _____ _____ _____	Rail 2 (-Y) _____ _____ _____	Rail 3 (+Y) _____ _____ _____	Rail 4 (+X) _____ _____ _____	³ 8.5mm ³ 8.5mm ³ 8.5mm	
	Protrusion-Edge Distance +Z Middle -Z	Rail 1 (+X) _____ _____ _____	Rail 2 (-X) _____ _____ _____	Rail 3 (-X) _____ _____ _____	Rail 4 (+Y) _____ _____ _____	³ 8.5mm ³ 8.5mm ³ 8.5mm
		Protrusions Side 1 (-Y) _____ _____	Side 2 (-X) _____ _____	Side 3 (+Y) _____ _____	Side 4 (+X) _____ _____	≤ 6.5mm
Z Face Protrusions Side 5 (-Z) _____ _____		Side 6 (+Z) _____ _____	Below plane of standoff ends			

U+ CubeSat Acceptance Checklist

Project:

Date/Time:

Engineers:

Organization:

Location:

Satellite Name:

Satellite S/N:

Revision Date: 03/30/2020

U+ Volume

Length (Z): _____ $\leq 36mm$

Diameter: _____ $\leq 64mm$

Authorized By:

IT #1: _____

IT #2: _____

Passed: **Y** / **N**

List Item	As Measured				Required
U+ Location Relative to Closest Corner	Rail 1 (+X, -Y) X / Y	Rail 2 (-X, -Y) X / Y	Rail 3 (-X, +Y) X / Y	Rail 4 (+X, +Y) X / Y	
1U-3U	____/____	____n/a____	____n/a____	____n/a____	50.0 ± 0.1mm
6U	____/____	____/____	____n/a____	____n/a____	50.0 ± 0.1mm
12U	____/____	____/____	____/____	____/____	50.0 ± 0.1mm

The images below are excerpts from the CubeSat Design Specification Rev 14 (U+ Drawing, CDS-14-005) and here included for reference. All dimensions are in millimeters.

