



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0576

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Konica Minolta

Manufacturer's Technical Representative: Carson Thomas

Mailing Address: 2217 U.S. Hwy 70 East, Garner, NC 27529

Telephone: (800) 366-5343

Email: carson.thomas@conicaminolta.com

Product Information

Product Name: Fluoroscopy and Radiography Systems

Product Type: NA

Product Model Number: Varies, see Attachment A

General Description: Universal digital radiography medical diagnostic system

Mounting Description: See Attachment

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: TRU Compliance, by Structural Integrity Associates, Inc.

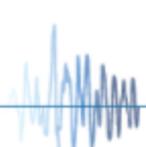
Contact Person: Katie Braman

Mailing Address: 5215 Hellyer Ave. Suite 210, San Jose, CA 95138

Telephone: (541) 526-1947

Email: kbraman@structint.com

Title: Program Manager





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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: STRUCTURAL INTEGRITY ASSOCIATES, INC.

Name: Andrew Coughlin California License Number: S6082

Mailing Address: 5215 Hellyer Ave, Suite 101, San Jose, CA 95138-1025

Telephone: (415) 635-8461 Email: acoughlin@structint.com

Certification Method

GR-63-Core ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3

Other (Please Specify): _____

Testing Laboratory

Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)

Contact Person: Jeremy Lange

Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513

Telephone: (972) 247-9657 Email: Jeremy@etldallas.com





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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = See Attachment

SDS (Design spectral response acceleration at short period, g) = 2.00; z/h = 1; 2.50; z/h = 0

a_p (Amplification factor) = See Attachment

R_p (Response modification factor) = See Attachment

Ω_0 (System overstrength factor) = See Attachment

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 1 and 0

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

HCAI Approval (For Office Use Only) - Approval Expires on 09/20/2028

Date: 9/20/2022

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = See Above z/h = See Above

Condition of Approval (if applicable): DATE: 09/20/2022



SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1800261-CR-001-R2



Manufacturer: Konica Minolta										TABLE 1	
Model Line: KDR											
Certified Product Construction Summary: U-Arms- carbon steel, Generators- carbon steel skins, High Voltage Generators- carbon steel											
Certified Options Summary: UUT 2 tested with DAP Sensor											
Mounting Configuration: See mounting notes for mounting details. Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.											
Building Code: CBC 2022						Seismic Certification Limits: $S_{DS} = 2.0g$ $z/h = 1.0$ $S_{DS} = 2.5g$ $z/h = 0.0$			$I_p = 1.5$		
Model Line	Model	Dimensions (in)			Weight (lb)	F_p/W_p	z/h	a_p	R_p	Ω_o	UUT
		Depth	Width	Height							
KDR Radiograph System ¹	SU-45XX	63	79.1	74.5	852	3.6	1	2.5	2.5	2	1
	SU-40XX	63	79.1	74.5	852	1.5	0				2
High Voltage Generator ²	SHF-415	15	23	27	145.7	1.5 1.13	1 0	2.5	6	2	3
	SHF-515	15	23	27	209						Interp.
	SHF-525	15	23	27	209						Interp.
	SHF-545	15	23	27	209						Interp.
	SHF-645	15	23	27	209						Interp.
	SHF-835	15	23	27	217						4
	CMP200-DR 40kW	13.5	25.5	24.3	112						5
	CMP200-DR 50kW	13.5	25.5	24.3	125						Interp.
	CMP200-DR 65kW	13.5	25.5	24.3	125						Interp.
	CMP200-DR 80kW	13.5	25.5	24.3	135.5						6
PC (DELL) ²	3420	11.49	3.64	11.41	13.88	1.44 1.13	1 0	1	2.5	2	7
	3620	17.12	6.88	14.17	11.68						8
UPS (APC) ²	BE600M1	4.13	10.79	5.47	7.7						9
Keyboard ⁴	Dell-KB216	5	17.4	0.8	1						10
Sedecal Mini Console ⁴	A6517-05	5.12	5.82	1.81	1.3						11
IF Box ²	KDR Interface Unit 2	18.25	7.5	11.5	25.5						12
Touch Monitor ²	ET2002L	8.35	15.35	16.9	15.5						13
CPI Mini Console ³	CPI Console	12.3	10.9	3.7	6						14

Mounting Notes: ¹ Base/wall mounted-rigid, ² Base mounted-rigid, ³ Wall mounted-rigid, ⁴ Velcro mounted

UNIT UNDER TEST (UUT) SUMMARY SHEET

1800261-CR-001-R2



Manufacturer: Konica Minolta
Model Line: KDR

UUT	Unit Description	Report Number	Testing Lab	Year Tested	ISO 17025 Accredited?	S _{DS}	z/h	I _p
1	U-Arm SU-45XX	14889, Rev. 1	ETL-Dallas	2018	Yes	2.0 2.5	1.0 0.0	1.5
2	U-Arm SU-40XX	14889, Rev. 1	ETL-Dallas	2018	Yes	2.0 2.5	1.0 0.0	1.5
3	High Voltage Generator Sedecal SHF-415 (40kW)	14889, Rev. 1	ETL-Dallas	2018	Yes	2.0 2.5	1.0 0.0	1.5
4	High Voltage Generator Sedecal SHF-835 (80kW)	14889, Rev. 1	ETL-Dallas	2018	Yes	2.0 2.5	1.0 0.0	1.5
5	High Voltage Generator CMP200-DR (40kW)	14889, Rev. 1	ETL-Dallas	2018	Yes	2.0 2.5	1.0 0.0	1.5
6	High Voltage Generator CMP200-DR (80kW)	14889, Rev. 1	ETL-Dallas	2018	Yes	2.0 2.5	1.0 0.0	1.5
7	Dell PC 3420	14889, Rev. 1	ETL-Dallas	2018	Yes	2.0 2.5	1.0 0.0	1.5
8	Dell PC 3620	14889, Rev. 1	ETL-Dallas	2018	Yes	2.0 2.5	1.0 0.0	1.5
9	UPS APC-BE600M1	14889, Rev. 1	ETL-Dallas	2018	Yes	2.0 2.5	1.0 0.0	1.5
10	Dell Keyboard	14889, Rev. 1	ETL-Dallas	2018	Yes	2.0 2.5	1.0 0.0	1.5
11	Sedecal Mini Console	14889, Rev. 1	ETL-Dallas	2018	Yes	2.0 2.5	1.0 0.0	1.5
12	KDR IF Box	14889, Rev. 1	ETL-Dallas	2018	Yes	2.0 2.5	1.0 0.0	1.5
13	ELO Touch Monitor	14889, Rev. 1	ETL-Dallas	2018	Yes	2.0 2.5	1.0 0.0	1.5
14	CPI Mini Console	14889, Rev. 1	ETL-Dallas	2018	Yes	2.0 2.5	1.0 0.0	1.5

Notes:

UNIT UNDER TEST (UUT) SUMMARY SHEET

1800261-CR-001-R2



Manufacturer: Konica Minolta	UUT 1
Model Line: KDR	
Model Number: SU-45XX	
Serial Number: SU451712002	

Product Construction Summary:
U-Arm and stand are constructed of carbon steel.

Options/Subcomponent Summary:
Konica Minolta U-Arm Stand (KDR AU 45XX) with Ralco Collimator (model R225 DHHS -303B) and Varian X-ray tube/ housing (model RAD-14/Diamond), and custom latch made by Konica Minolta for grid, see next page. ☒

UUT Properties						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz) Configuration#1		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
852	63	79.1	74.5	N/A	N/A	N/A
				Lowest Natural Frequency (Hz) Configuration#2		
				Front-Back	Side-Side	Vertical
				N/A	N/A	N/A

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.2	2.4	1.67	0.67
		2.5	0.0	1.5				



UUT 1 was base/wall mounted - rigid to the table and wall fixture. The UUT was mounted to the shake table with four 1/2"-13 x 1" Grade 5 hex bolts and flat washers. All bolts were torqued to 60ft-lbs. The manufacturer provided a slotted wall mount bracket which was attached to the wall fixture with four #14 hex head lag bolts and washers. The slotted wall bracket was adjusted to twenty inches from wall to the base and fixed into position with two M14 x 50mm Class 12.9 socket head bolts, four flat washers and two split-lock washers. The bolts were torqued to 60 ft-lbs.

The grid became displaced during the resonant frequency search. A latch was constructed from a piece of hardened steel (dimensions: 0.25" x 0.25" x 1.5") and the grid handle was drilled, tapped and countersunk for a 4-40 fastener. The latch was fastened to the grid handle with a 4-40 x 3/4" 18-8 stainless steel flathead Phillips screw along with a split washer and nut. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1800261-CR-001-R2

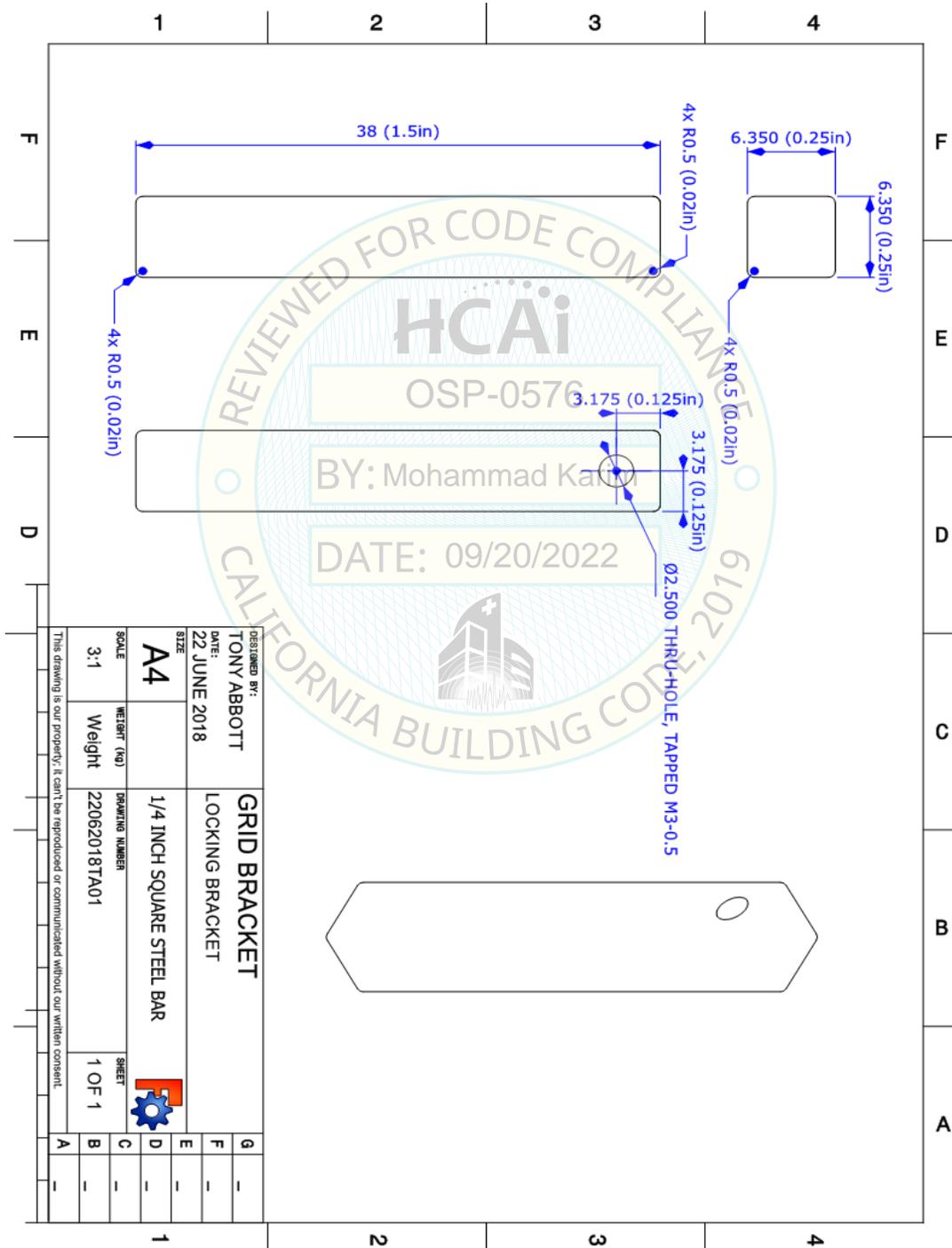


Manufacturer: Konica Minolta
Model Line: KDR
Model Number: SU-45XX

Serial Number: SU451712002

UUT 1

Custom Grid Latch Details (page 1 of 2):



DESIGNED BY:	TONY ABBOTT	GRID BRACKET
DATE:	22 JUNE 2018	LOCKING BRACKET
SCALE	A4	1/4 INCH SQUARE STEEL BAR
WEIGHT (KG)	Weight	DRAWING NUMBER
3:1		22062018TA01
SHEET		
1 OF 1		
A	B	C
D	E	F
G		
1		

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UNIT UNDER TEST (UUT) SUMMARY SHEET

1800261-CR-001-R2

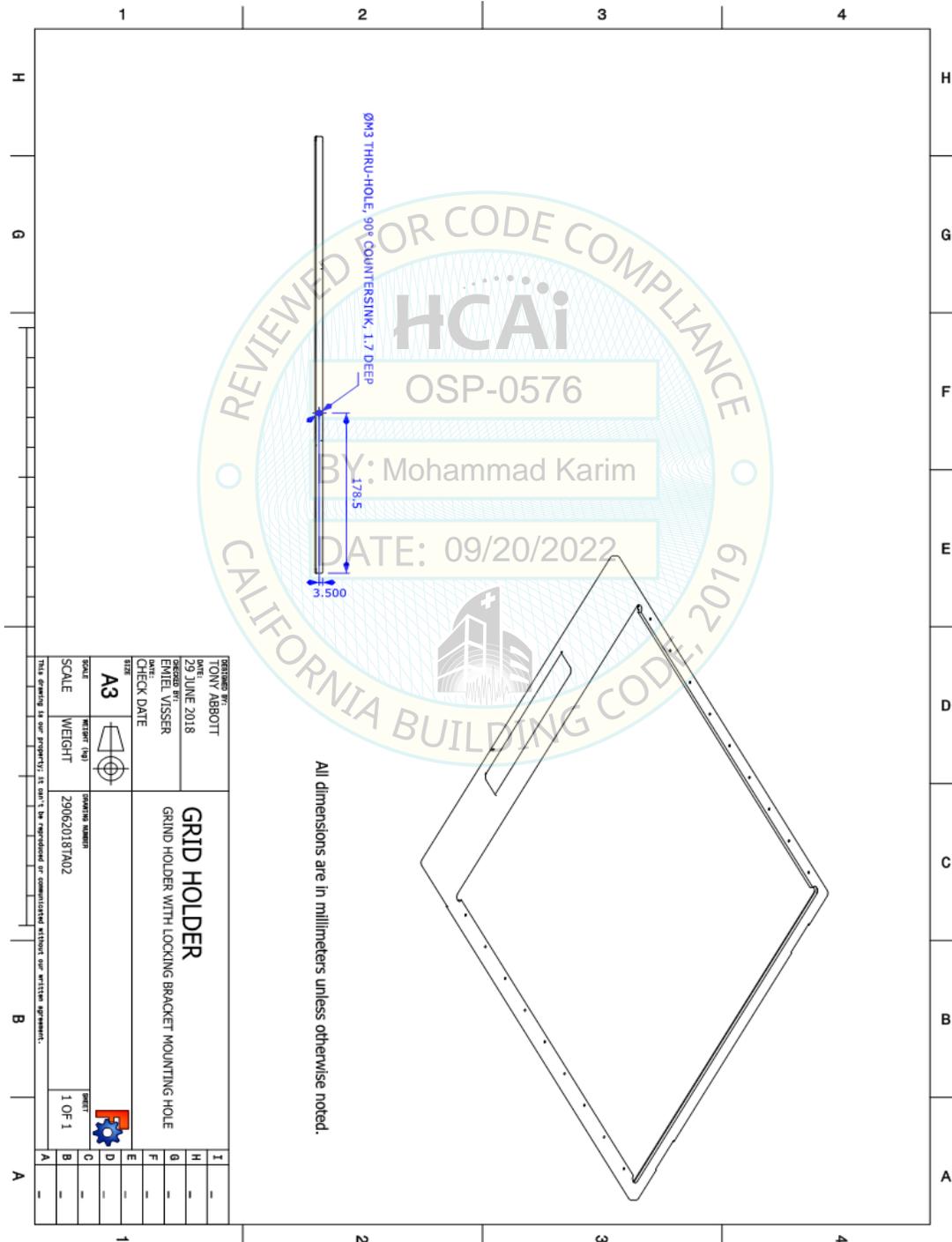


Manufacturer: Konica Minolta
Model Line: KDR
Model Number: SU-45XX

UUT 1

Serial Number: SU451712002

Custom Grid Latch Details (page 2 of 2):



UNIT UNDER TEST (UUT) SUMMARY SHEET

1800261-CR-001-R2



Manufacturer: Konica Minolta	UUT 2
Model Line: KDR	
Model Number: SU-40XX	
Serial Number: SU41803036	

Product Construction Summary:
U-Arm and stand are constructed of carbon steel.

Options/Subcomponent Summary:
Konica Minolta U-Arm Stand (KDR AU 40XX) with Ralco Collimator (model R225 DHHS 303C), Varian X-ray tube/ housing (model RAD-60/Sapphire), touchscreen, and custom latch made by Konica Minolta for grid, see next page.

UUT Properties						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz) Configuration#1		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
852	63	79.1	74.5	N/A	N/A	N/A
				Lowest Natural Frequency (Hz) Configuration#2		
				Front-Back	Side-Side	Vertical
				N/A	N/A	N/A

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0	1.5					

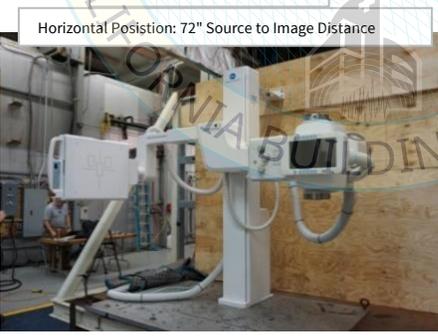
Test Mounting Details:

Configuration #1



Vertical Position: 40" Source to Image Distance

Configuration #2



Horizontal Position: 72" Source to Image Distance

Mounting



Grid Latch



UUT 2 was base/wall mounted - rigid to the table and wall fixture. The UUT was mounted to the shake table with four 1/2"-13 x 1" Grade 5 hex bolts and flat washers. All bolts were torqued to 60ft-lbs. The manufacturer provided a slotted wall mount bracket which was attached to the wall fixture with four #14 hex head lag bolts and washers. The slotted wall bracket was adjusted to twenty inches from wall to the base and fixed into position with two M14 x 50mm Class 12.9 socket head bolts, four flat washers and two split-lock washers. The bolts were torqued to 60 ft-lbs.

The grid became displaced during the resonant frequency search. A latch was constructed from a piece of hardened steel (dimensions: 0.25" x 0.25" x 1.5") and the grid handle was drilled, tapped and countersunk for a 4-40 fastener. The latch was fastened to the grid handle with a 4-40 x 3/4" 18-8 stainless steel flathead Phillips screw along with a split washer and nut. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1800261-CR-001-R2

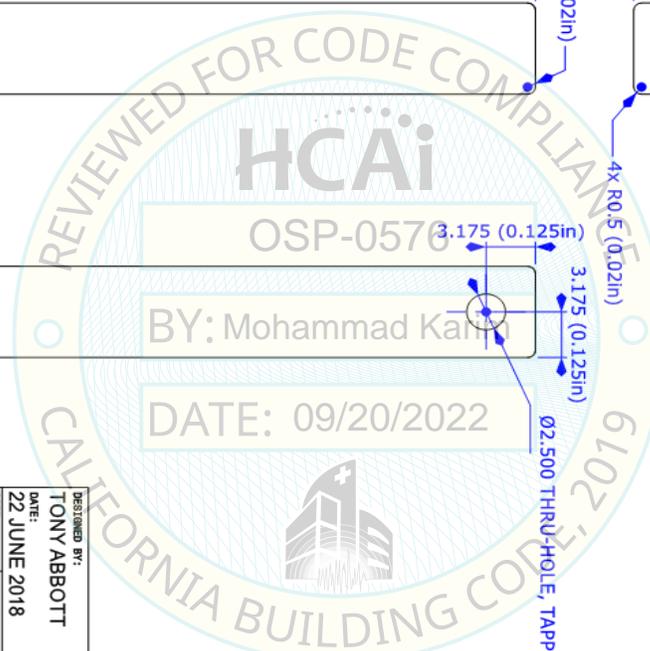
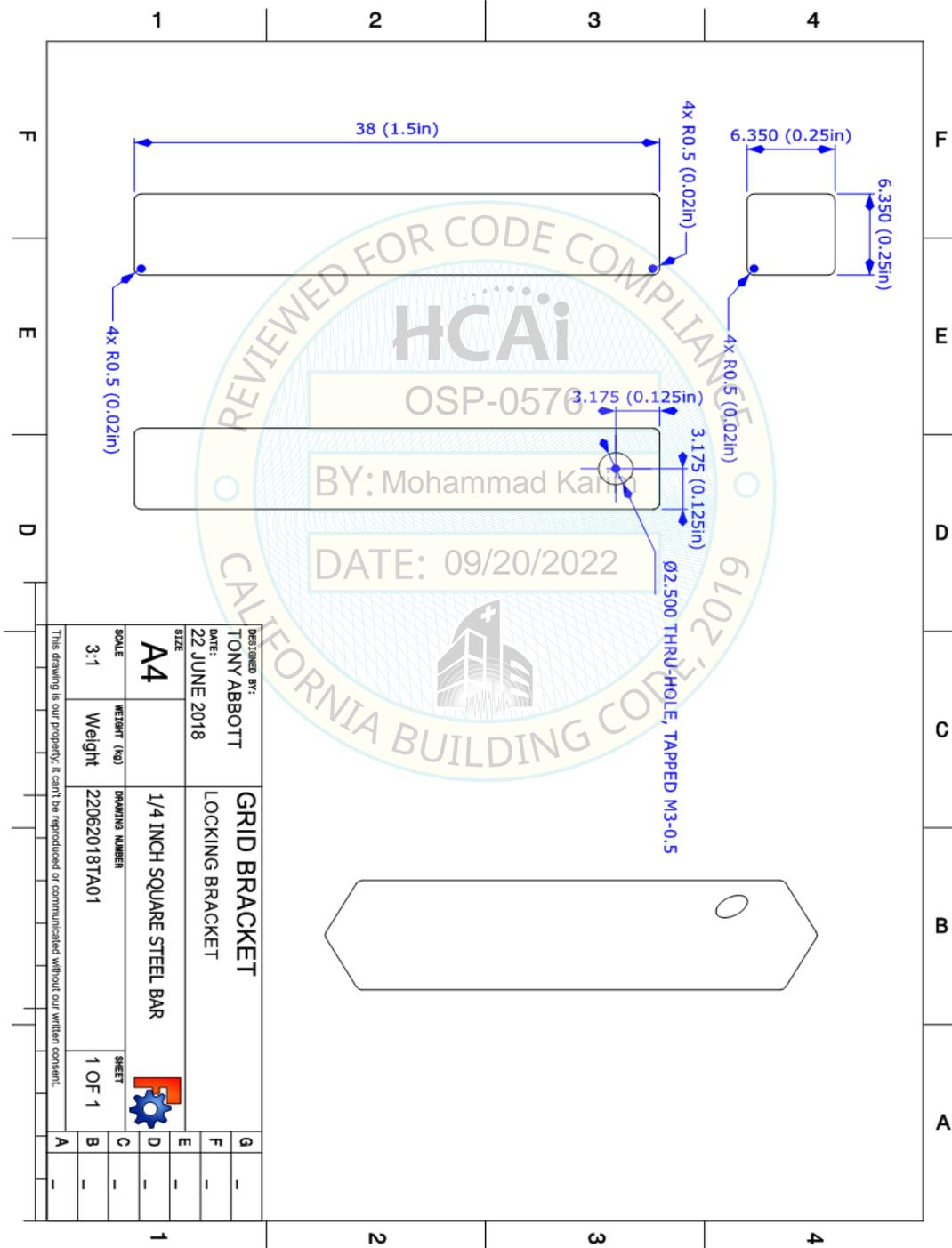


Manufacturer: Konica Minolta
Model Line: KDR
Model Number: SU-40XX

Serial Number: SU41803036

UUT 2

Custom Grid Latch Details (page 1 of 2):



DESIGNED BY: TONY ABBOTT		GRID BRACKET	
DATE: 22 JUNE 2018		LOCKING BRACKET	
SIZE: A4		1/4 INCH SQUARE STEEL BAR	
SCALE: 3:1	WEIGHT (kg): Weight	DRAWING NUMBER: 22062018TA01	SHEET: 1 OF 1

A	-	-	-	-	-	-
B	-	-	-	-	-	-
C	-	-	-	-	-	-
D	-	-	-	-	-	-
E	-	-	-	-	-	-
F	-	-	-	-	-	-
G	-	-	-	-	-	-

UNIT UNDER TEST (UUT) SUMMARY SHEET

1800261-CR-001-R2

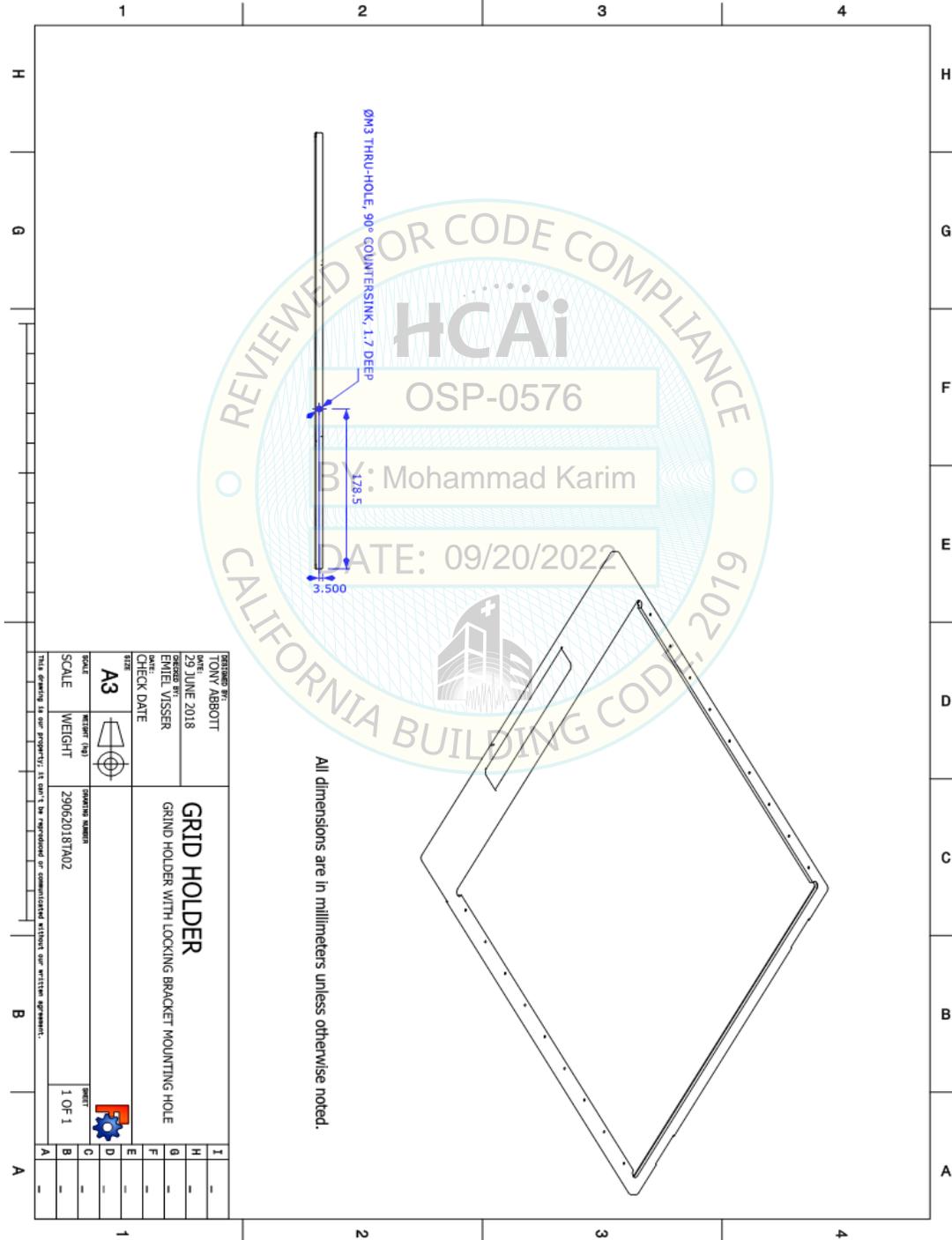


Manufacturer: Konica Minolta
Model Line: KDR
Model Number: SU-40XX

Serial Number: SU41803036

UUT 2

Custom Grid Latch Details (page 2 of 2):



DESIGNED BY:	TONY ABBOTT
DATE:	29 JUNE 2018
ENGINEER BY:	EMIL VISSER
CHECK DATE:	
SIZE:	A3
SCALE:	1 OF 1
WEIGHT:	29062018TA02
SHARING NUMBER:	
GRID HOLDER	
GRID HOLDER WITH LOCKING BRACKET MOUNTING HOLE	
SHEET:	1 OF 1

UNIT UNDER TEST (UUT) SUMMARY SHEET

1800261-CR-001-R2



Manufacturer: Konica Minolta	UUT 3
Model Line: KDR	
Model Number: SHF-415 Serial Number: G-76238	

Product Construction Summary:
Carbon steel skin

Options/Subcomponent Summary:
Sedecal 40 kW High Voltage Generator

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
147.5	14.5	17.5	21.5	22.63	>33.33	23.21

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.2	2.4	1.67	0.67
		2.5	0.0	1.5				

Test Mounting Details:



UUT 3 was base mounted - rigid to the table with three 1/4"-20 x 1-1/2" Grade 5 bolts and flat washers. Mounting holes were located inside the generator housing at each corner. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

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Manufacturer: Konica Minolta	UUT 4
Model Line: KDR	
Model Number: SHF-835 Serial Number: G-78084	

Product Construction Summary:
Carbon steel skin

Options/Subcomponent Summary:
Sedecal 80 kW High Voltage Generator

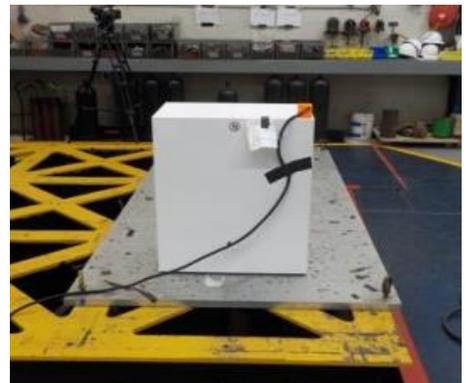
UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
208	15	23	27	22.81	18.32	26.73

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.2	2.4	1.67	0.67
		2.5	0.0	1.5				

Test Mounting Details:



UUT 4 was base mounted – rigid to the table with three 1/4"-20 x 1-1/2" Grade 5 bolts and flat washers. Mounting holes were located inside the generator housing at each corner.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1800261-CR-001-R2



Manufacturer: Konica Minolta	UUT 5
Model Line: KDR	
Model Number: CMP200-DR VAW2556RS-G3	Serial Number: COD31220E18

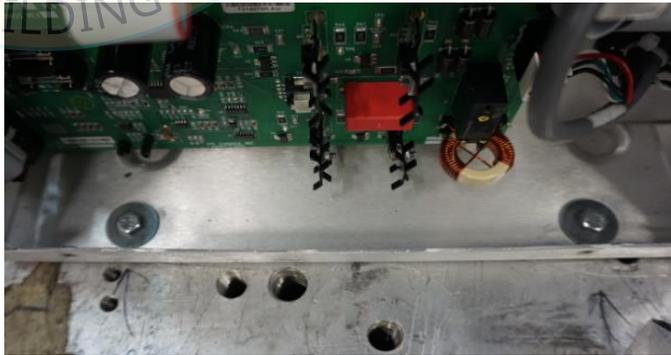
Product Construction Summary:
Carbon steel skin

Options/Subcomponent Summary:
CPI 40 kW High Voltage Generator

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
112	13.7	25.7	24.3	>33.33	29.19	>33.33

<i>UUT Highest Passed Seismic Run Information</i>								
Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.2	2.4	1.67	0.67
		2.5	0.0	1.5				

Test Mounting Details:



UUT 5 was base mounted – rigid to the table with four 1/4"-20 x 1-1/2" Grade 5 bolts and flat washers. Mounting holes were located inside the generator housing at each corner. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1800261-CR-001-R2



Manufacturer: Konica Minolta	UUT 6
Model Line: KDR	
Model Number: VZW255	
Serial Number: CPD31216E18	

Product Construction Summary:
Carbon steel skin

Options/Subcomponent Summary:
CPI 80 kW High Voltage Generator

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
135.5	13.7	25.7	24.3	27.21	>33.3	>33.3

<i>UUT Highest Passed Seismic Run Information</i>								
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2022	ICC-ESAC156	2.0	1.0	1.5	3.2	2.4	1.67	0.67
		2.5	0.0	1.5				

Test Mounting Details:



UUT 6 was base mounted – rigid to the table with four 1/4"-20 x 1-1/2" Grade 5 bolts and flat washers. Mounting holes were located inside the generator housing at each corner.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1800261-CR-001-R2



Manufacturer: Konica Minolta	UUT 7
Model Line: KDR	
Model Number: Dell 3420	
Serial Number: 759B9N2	

Product Construction Summary:
Carbon steel and plastic skin.

Options/Subcomponent Summary:
Custom mounting bracket made by Konica Minolta, see next page.

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
12	11.49	3.34	11.41	>33.33	>33.33	>33.33

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0	1.5					

Test Mounting Details:



UUT 7 was base mounted – rigid to the table with a custom stainless-steel sheet metal mounting bracket and four #14 x 1-1/2" self-tapping screws. Mounting holes were located at the four corners of the bracket. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1800261-CR-001-R2

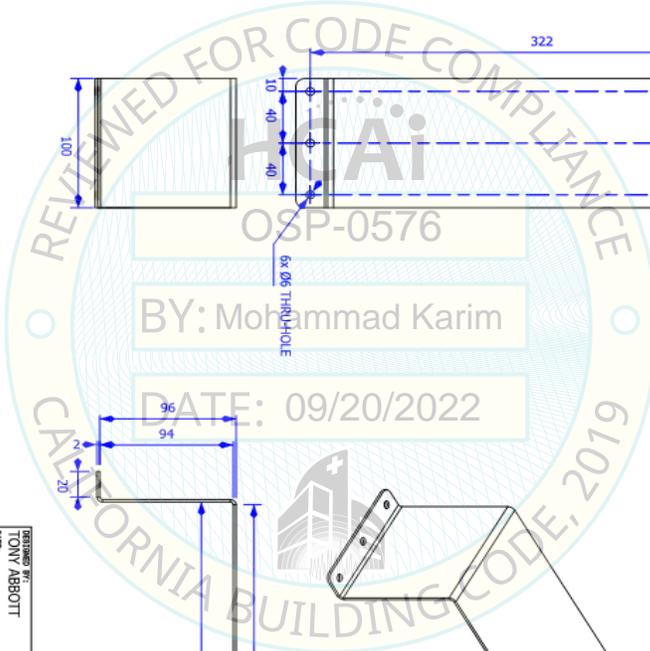
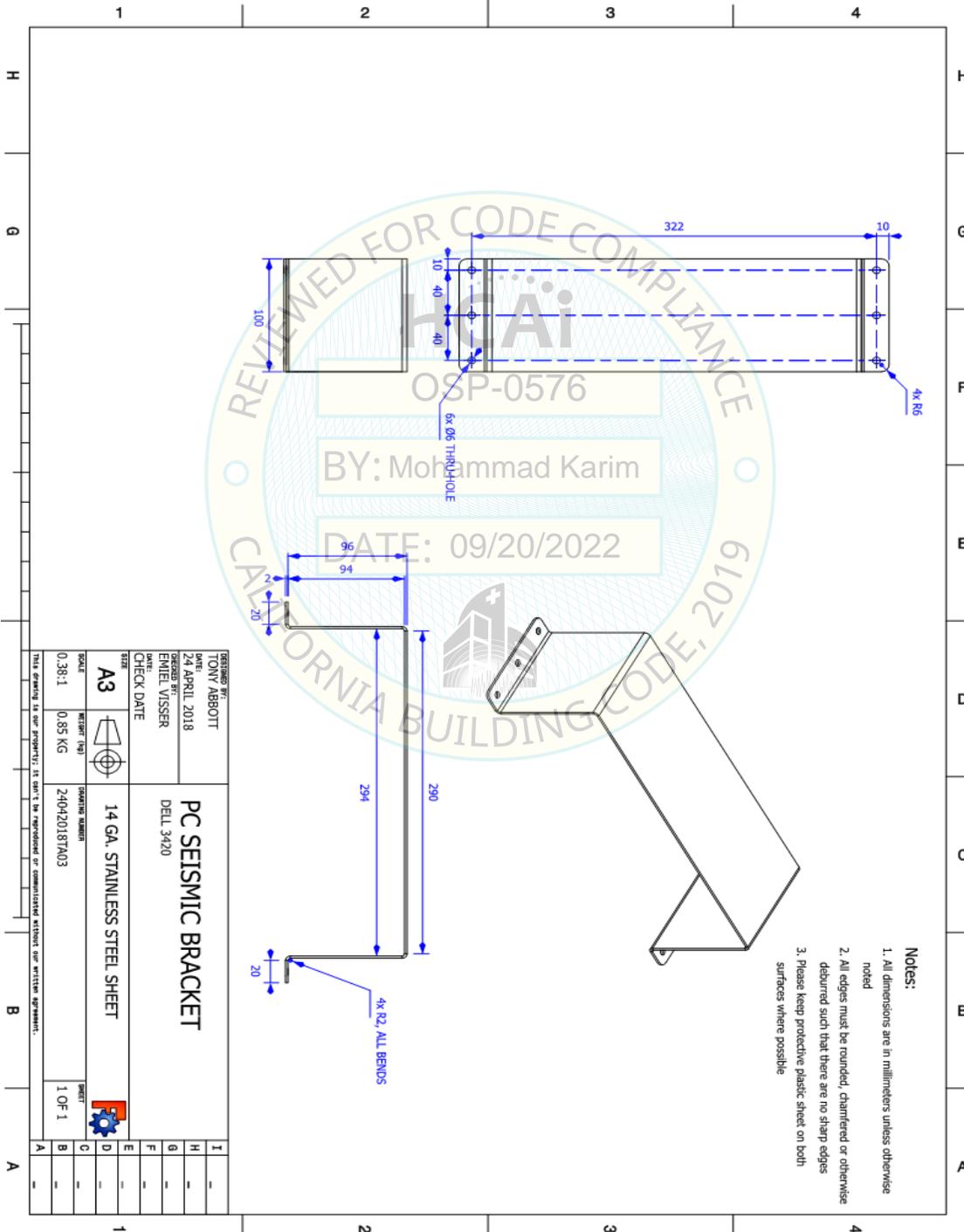


Manufacturer: Konica Minolta
Model Line: KDR
Model Number: Dell 3420

UUT 7

Serial Number: 759B9N2

Custom Mounting Bracket:



UNIT UNDER TEST (UUT) SUMMARY SHEET

1800261-CR-001-R2



Manufacturer: Konica Minolta	UUT 8
Model Line: KDR	
Model Number: Dell 3620	
Serial Number: 7X5CGK2	

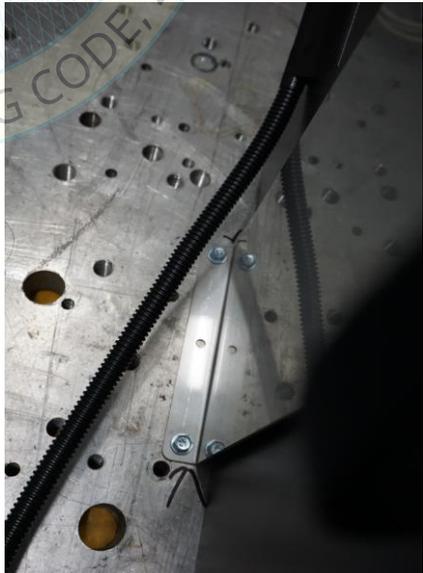
Product Construction Summary:
Carbon steel and plastic skin.

Options/Subcomponent Summary:
Custom mounting bracket made by Konica Minolta, see next page.

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
16.5	17.12	6.88	14.17	>33.3	19.85	>33.33

<i>UUT Highest Passed Seismic Run Information</i>								
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.2	2.4	1.67	0.67
		2.5	0.0	1.5				

Test Mounting Details:



UUT 8 was base mounted – rigid to the table with a custom stainless-steel sheet metal mounting bracket and four #14 x 1-1/2" self-tapping screws. Mounting holes were located at the four corners of the bracket.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1800261-CR-001-R2

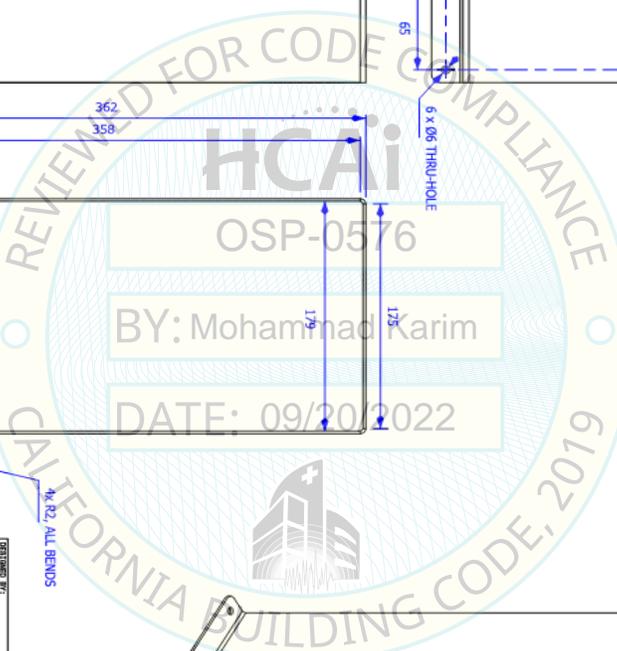
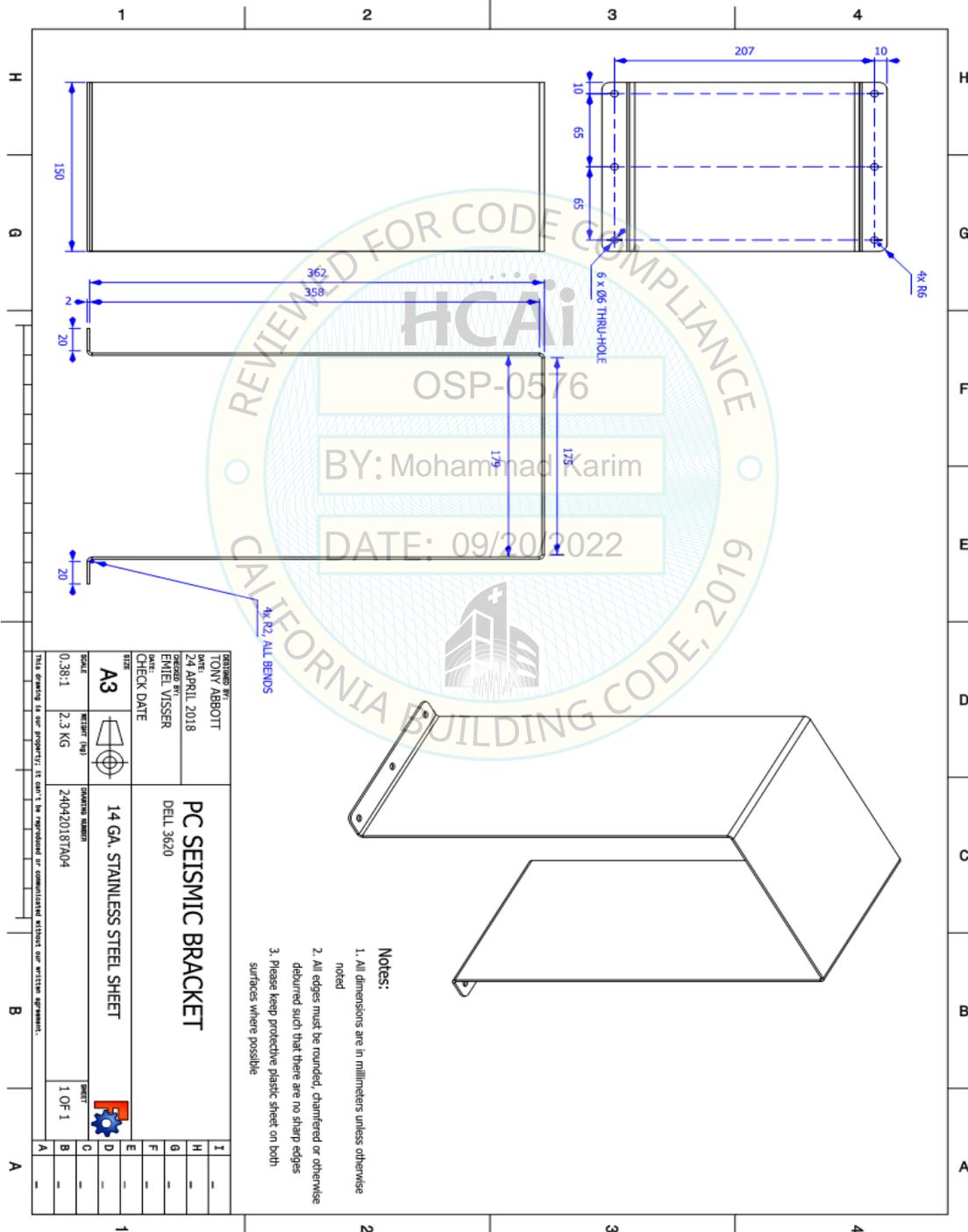


Manufacturer: Konica Minolta
Model Line: KDR
Model Number: Dell 3620

UUT 8

Serial Number: 7X5CGK2

Custom Mounting Bracket:



DESIGNED BY: JOHN ABBOTT	DATE: 24 APRIL 2018	PROJECT: PC SEISMIC BRACKET	DELL 3620
CHECKED BY: EMIEL VISSER	DATE: CHECK DATE	QUANTITY: 24042018TA04	14 GA. STAINLESS STEEL SHEET
SIZE: A3	WEIGHT (KG): 2.3 KG	SHEET: 1 OF 1	
<small>This drawing is the property of TRU. It can't be reproduced or communicated without our written agreement.</small>			

- Notes:**
1. All dimensions are in millimeters unless otherwise noted
 2. All edges must be rounded, chamfered or otherwise deburred such that there are no sharp edges
 3. Please keep protective plastic sheet on both surfaces where possible

UNIT UNDER TEST (UUT) SUMMARY SHEET

1800261-CR-001-R2



Manufacturer: Konica Minolta	UUT 9
Model Line: KDR	
Model Number: UPS BE600M1	
Serial Number: 4B17P50P06778	

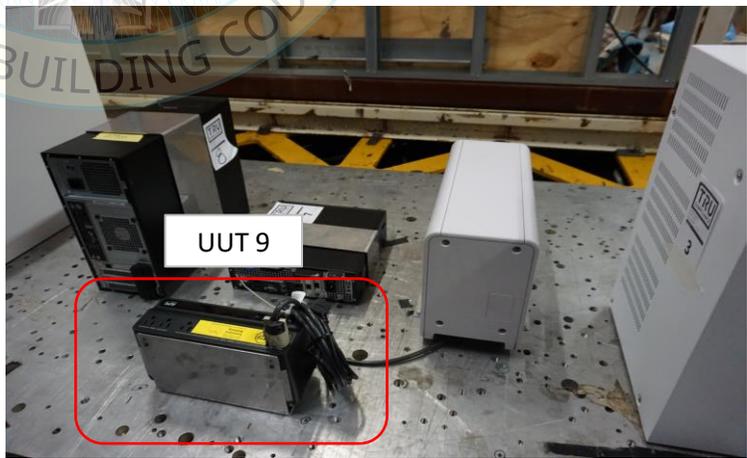
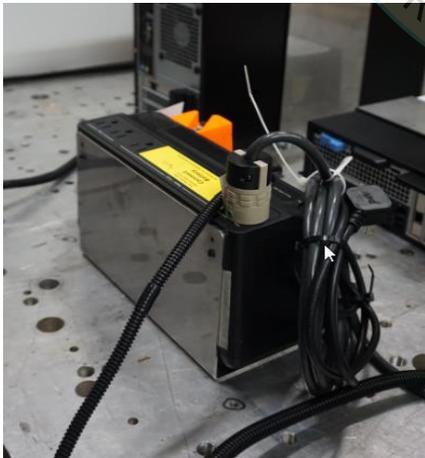
Product Construction Summary:
Carbon steel and plastic skin.

Options/Subcomponent Summary:
Custom mounting bracket made by Konica Minolta, see next page. ☒

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
10.5	4.13	10.79	5.47	26.78	38.02	28.07

<i>UUT Highest Passed Seismic Run Information</i>								
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2022	ICC-ESAC156	2.0	1.0	1.5	3.2	2.4	1.67	0.67
		2.5	0.0	1.5				

Test Mounting Details:



UUT 9 was base mounted – rigid to the table with a custom stainless-steel sheet metal mounting bracket and four #14 x 1-1/2" self-tapping screws. Mounting holes were located at the four corners of the bracket. Four M4-0.7 x 6mm Class 10.9 button head screws were used to secure UUT 9 to the bracket.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1800261-CR-001-R2

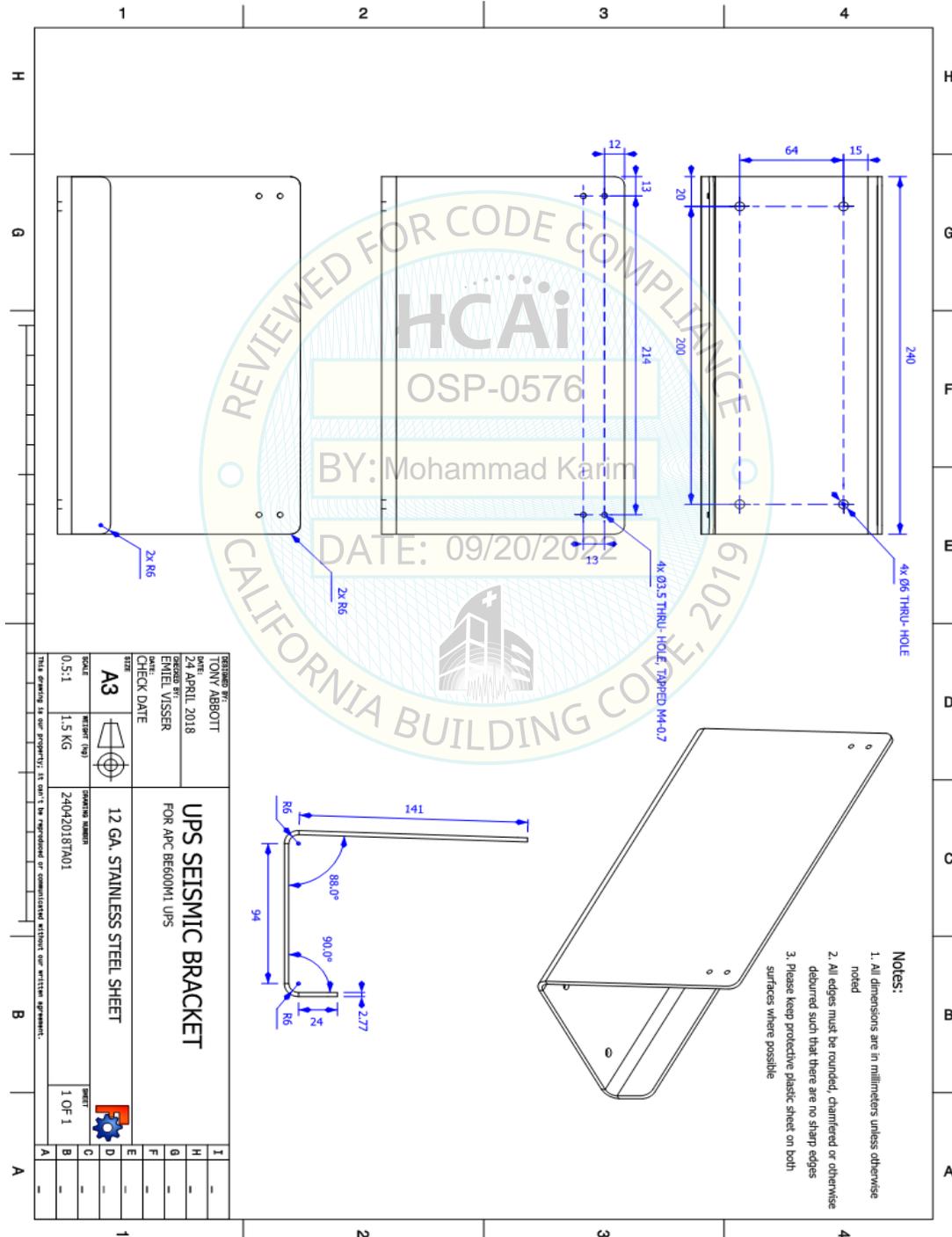


Manufacturer: Konica Minolta
Model Line: KDR
Model Number: UPS BE600M1

UUT 9

Serial Number: 4B17P50P06778

Custom Mounting Bracket:



DESIGNED BY: TONY ABBOTT	DATE: 24 APRIL 2018	FOR: UPS SEISMIC BRACKET FOR APC BE600M1 UPS
DRAWN BY: EMIL VISSER	CHECK DATE:	
SCALE: 0.5:1	WEIGHT (KG): 1.5 KG	QUANTITY: 24042018TA01
SIZE: A3		SHEET: 1 OF 1
<p>12 GA. STAINLESS STEEL SHEET</p>		
<p>UPS SEISMIC BRACKET FOR APC BE600M1 UPS</p>		
1		
2		
3		
4		
A		
B		
C		
D		
E		
F		
G		
H		

- Notes:**
1. All dimensions are in millimeters unless otherwise noted
 2. All edges must be rounded, chamfered or otherwise deburred such that there are no sharp edges
 3. Please keep protective plastic sheet on both surfaces where possible

UNIT UNDER TEST (UUT) SUMMARY SHEET

1800261-CR-001-R2



Manufacturer: Konica Minolta	UUT 10
Model Line: KDR	
Model Number: Dell Keyboard Serial Number: KB126T	

Product Construction Summary:
Plastic

Options/Subcomponent Summary:

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1	5	17.4	0.8	>33.33	>33.3	>33.3

<i>UUT Highest Passed Seismic Run Information</i>								
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2022	ICC-ESAC156	2.0 2.5	1.0 0.0	1.5 1.5	3.2	2.4	1.67	0.67

Test Mounting Details:



UUT 10 was mounted to the shake table with two 1" x 3.75" strips of 3M Dual Lock Reclosable Fastener (P/N TB3550). Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1800261-CR-001-R2



Manufacturer: Konica Minolta	UUT 11
Model Line: KDR	
Model Number: A6517-05 Serial Number: GN-78070	

Product Construction Summary:
Sedecal Mini console for use for Sedecal High Voltage Generators, plastic and carbon steel.

Options/Subcomponent Summary:

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
2	5.12	5.82	1.81	N/A	N/A	N/A

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2022	ICC-ESAC156	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0	1.5					

Test Mounting Details:



UUT 11 was wall mounted – rigid to the wall fixture with four #14 x 1-1/2" self-tapping screws.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1800261-CR-001-R2



Manufacturer: Konica Minolta	UUT 12
Model Line: KDR	
Model Number: IF Box-KDR Interface Unit	
Serial Number: A9KY-00277	

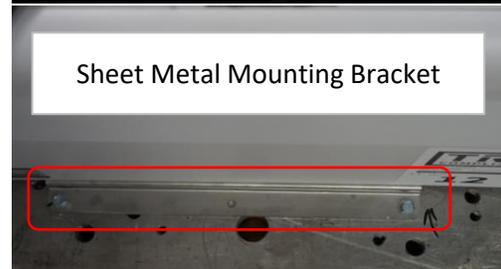
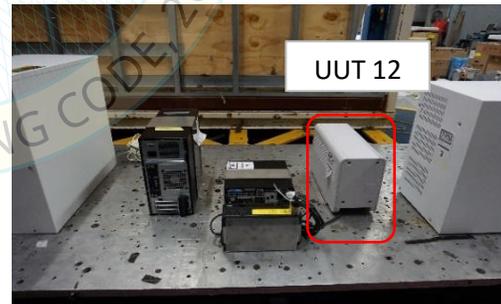
Product Construction Summary:
Carbon steel and plastic skin.

Options/Subcomponent Summary:
Custom mounting bracket made by Konica Minolta, see next page. ☒

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
30	18.3	7.5	11.5	16.36	21.93	17.18

<i>UUT Highest Passed Seismic Run Information</i>								
Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2022	ICC-ESAC156	2.0	1.0	1.5	3.2	2.4	1.67	0.67
		2.5	0.0	1.5				

Test Mounting Details:



UUT 12 was base mounted - rigid to the table with a custom stainless-steel sheet metal mounting bracket and four #14 x 1-1/2" self-tapping screws. Mounting holes were located at the four corners of the bracket. Four M4-0.7 x 6mm Class 10.9 button head screws were used to secure UUT 12 to the bracket.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1800261-CR-001-R2



Manufacturer: Konica Minolta

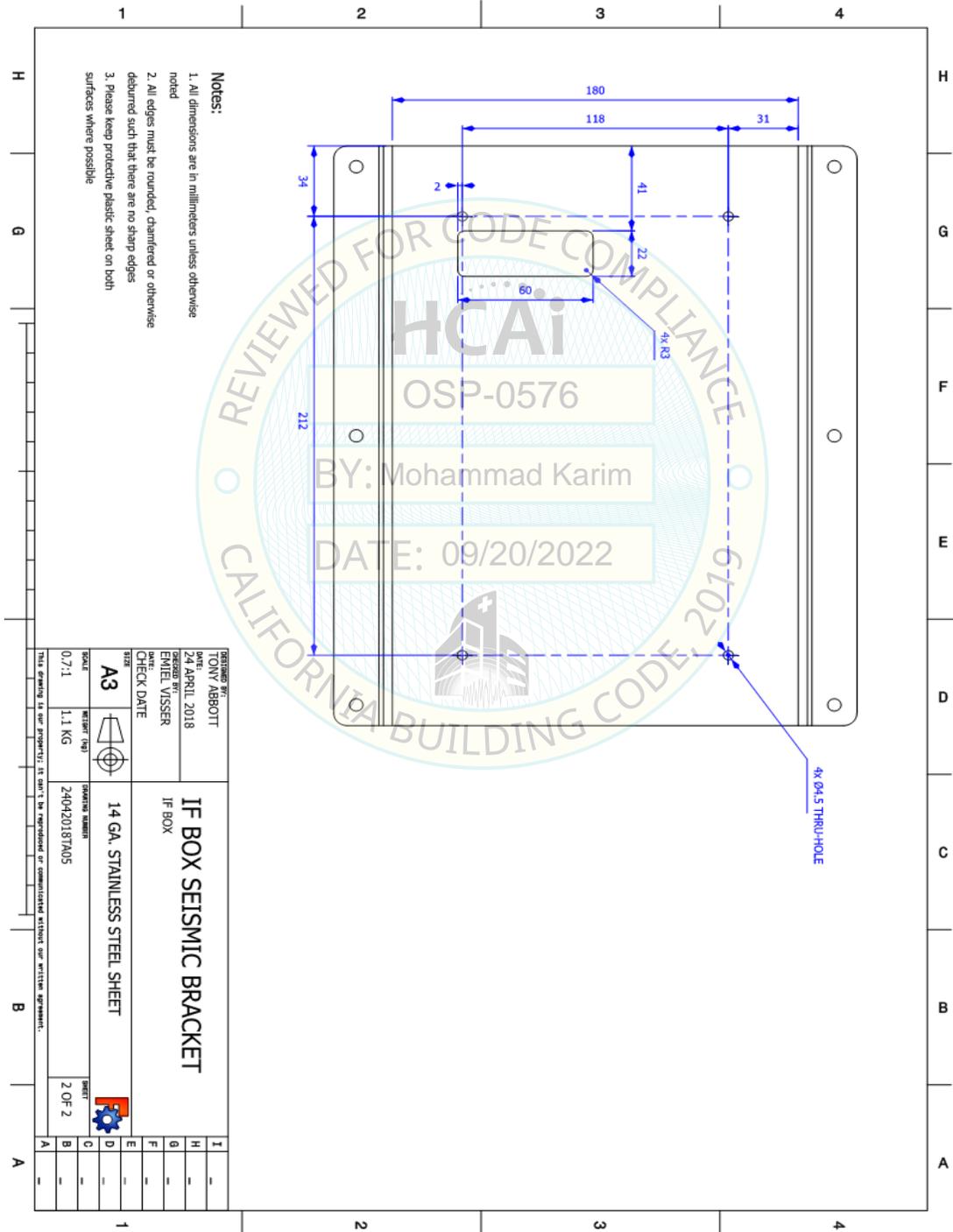
Model Line: KDR

Model Number: IF Box-KDR Interface Unit

Serial Number: A9KY-00277

UUT 12

Custom Mounting Bracket:



UNIT UNDER TEST (UUT) SUMMARY SHEET

1800261-CR-001-R2



Manufacturer: Konica Minolta	UUT 13
Model Line: KDR	
Model Number: elo Monitor -E396119	
Serial Number: H173025601	

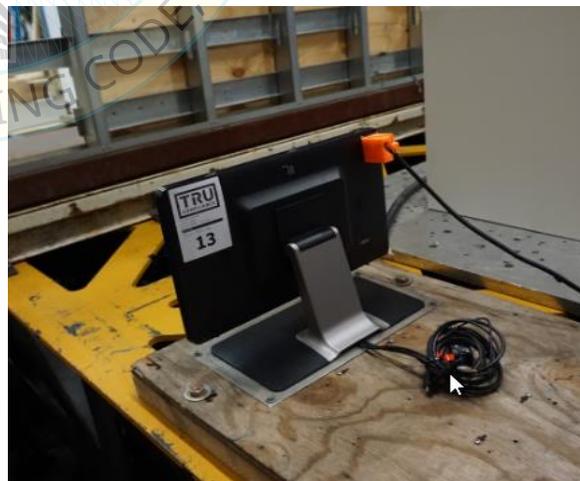
Product Construction Summary:
Enclosure black plastic, touch screen with PCAP

Options/Subcomponent Summary:
Custom mounting bracket made by Konica Minolta. ☑

<i>UUT Properties</i>						
Weight (lb)	Dimension (in) ¹			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
15.5	7.61	13.87	19.22	12.10	16.58	17.28

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0	1.5					

Test Mounting Details:



UUT 13 was base mounted - rigid to the table with a custom stainless-steel sheet metal mounting bracket and four #14 x 1-1/2" self-tapping screws. Mounting holes were located at the four corners of the bracket. Four M4-0.7 x 6mm Class 10.9 button head screws were used to secure UUT 13 to the bracket.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Contents were included in testing per operating conditions.

¹Dimensions include monitor stand.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1800261-CR-001-R2



Manufacturer: Konica Minolta	UUT 14
Model Line: KDR	
Model Number: CPI Console Serial Number: n/a	

Product Construction Summary:
CPI mini console for use with CPI high voltage generators.

Options/Subcomponent Summary:

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1.5	7	4	3.7	>33.33	>33.33	>33.33

<i>UUT Highest Passed Seismic Run Information</i>								
Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2022	ICC-ESAC156	2.0	1.0	1.5	3.2	2.4	1.67	0.67
		2.5	0.0	1.5				

Test Mounting Details:



The console bracket base of UUT 14 was mounted to the shake table with two 1" x 4" strips of 3M Dual Lock Reclosable Fastener (P/N TB3550). The mini console of UUT 14 was attached to the bracket with one 1" x 3" strip of 3M Dual Lock Reclosable Fastener. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.