



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD PREAPPROVAL
OF MANUFACTURER'S CERTIFICATION (OPM)

OFFICE USE ONLY
APPLICATION #: OPM-0440-13

OSHPD Preapproval of Manufacturer's Certification (OPM)

Type: [X] New [] Renewal [] Update to Pre-CBC 2013 OPA Number:

Manufacturer Information

Manufacturer: Kimball International on behalf of Kimball Office and National Office Furniture

Manufacturer's Technical Representative: Ricardo Espinosa

Mailing Address: 1600 Royal St., Jasper, IN 47549-1001

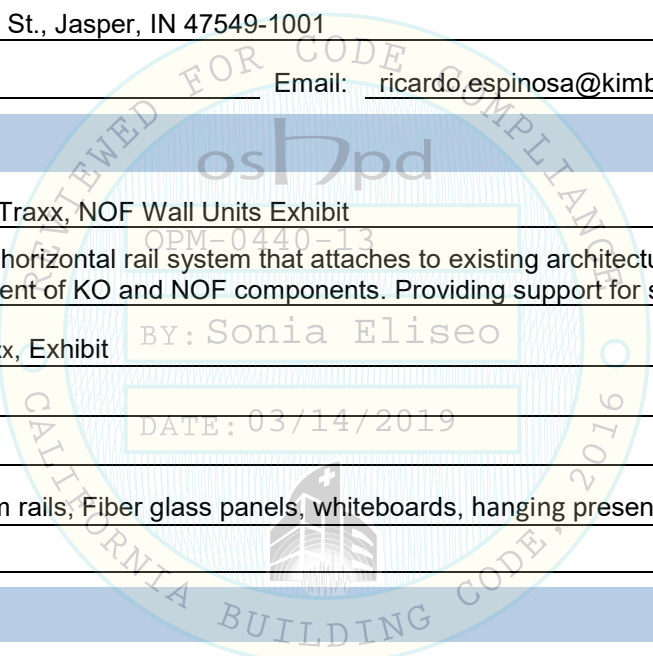
Telephone: 812-482-8308 Email: ricardo.espinosa@kimball.com

Product Information

Product Name: KO Wall Units Traxx, NOF Wall Units Exhibit

Product Type: Wall Units is a horizontal rail system that attaches to existing architecture, (walls) allowing free, off-module placement of KO and NOF components. Providing support for storage, and tiles and panels.

Product Model Number: Traxx, Exhibit



General Description: Aluminum rails, Fiber glass panels, whiteboards, hanging presentation tools

Applicant Information

Applicant Company Name: Kimball International on behalf of Kimball Office and National Office Furniture

Contact Person: Ricardo Espinosa

Mailing Address: 1600 Royal St., Jasper, IN 47549-1001

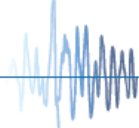
Telephone: 812-482-8308 Email: ricardo.espinosa@kimball.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

Signature of Applicant: [Handwritten Signature] Date: 07/11/2017

Title: R&D Engineering Manager Company Name: Kimball International, Inc.

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"





OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

Registered Design Professional Preparing Engineering Recommendations

Company Name: ZFA STRUCTURAL ENGINEERS
Name: Mark Moore, SE California License Number: S4443
Mailing Address: 601 Montgomery Street Suite 1450, San Francisco, CA 94111
Telephone: (415)243-4091 x 201 Email: markm@zfa.com; ryanb@zfa.com; mickeyk@zfa.com

OSHPD Special Seismic Certification Preapproval (OSP)

- Special Seismic Certification is preapproved under OSP- (Separate application for OSP is required)
- Special Seismic Certification is not preapproved

Certification Method(s)

- Testing in accordance with: ICC-ES AC156 FM 1950-16
- Other* (Please Specify): _____

OPM-0440-13

*Use of criteria other than those adopted by the California Building Standards Code, 2016 (CBSC 2016) for component supports and attachments are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic bracings, test criteria other than those adopted in the CBSC 2016 may be used when approved by OSHPD prior to testing.

DATE: 03/14/2019

- Analysis
- Experience Data
- Combination of Testing, Analysis, and/or Experience Data (Please Specify): _____

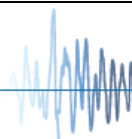
List of Attachments Supporting the Manufacturer's Certification

- Test Report Drawings Calculations Manufacturer's Catalog
- Other(s) (Please Specify): _____

OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2016 & ALL PRE-2016 CODE BASED PROJECTS

Signature: Sonia Eliseo Date: 3/14/2019
Print Name: Sonia Eliseo
Title: SE
Condition of Approval (if applicable): _____

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"



Equipment Manufacturer: Kimball International <small>KimballOffice NATIONAL KimballHospitality</small>	Kimball International, Inc. on behalf of Kimball Office and National Office Furniture	OPM-0440-13
ZFA STRUCTURAL ENGINEERS 601 Montgomery St. Suite 1450 San Francisco CA, 94111 ph. 415 243 4091 zfa.com	Job No. 34028	Sheet 1 of 6
	Date: Jul. 10, 2017	
Equipment Type: WALL MOUNT UNITS - TRAXX, EXHIBIT - (SEE SHEET 5)		

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GENERAL NOTES

- THIS OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2016. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON CBC 2016.
- FORCES PER ASCE 7-10 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE $S_{Ds} = 2.0$, $a_p = 1.0$, $I_p = 1.5$, $R_p = 2.5$, $z/h \leq 1.0$
- THIS PRE-APPROVAL CONFORMS TO THE 2016 CALIFORNIA BUILDING CODE.
- THE DETAILS IN THIS PRE-APPROVAL MAY BE USED AT ANY LOCATION IN THE STATE OF CALIFORNIA, WHERE S_{Ds} IS NOT GREATER THAN 2.0.
- ALL ANCHOR FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR ALLOWABLE STRESS DESIGN.
- SHEET METAL SCREWS SHALL BE TEKS SCREWS (ICC ESR-1976). MINIMUM EDGE DISTANCE, SPACING AND EMBEDMENT THROUGH STUDS PER ICC REPORT.
- THIS PRE-APPROVAL COVERS ONLY THE SUPPORT & ATTACHMENTS OF THE UNIT TO THE STRUCTURE.

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD OF THE BUILDING

- DESIGN BACKING BARS, WALL STUDS, ETC. WHICH THE UNITS ARE ATTACHED TO AS NOTED ON THE DRAWINGS.
- THE SEOR SHALL ALSO VERIFY THE ADEQUACY OF THE STRUCTURES (SUCH AS WALLS AND FLOORS) WHICH SUPPORT THE UNITS FOR THE LOADS IMPOSED ON THEM BY THE UNITS AS WELL AS ALL OTHER LOADS.
- PROVIDE SUPPORTING STRUCTURE REQUIRED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
- VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2016 CBC AND WITH THE DETAILS SHOWN IN THIS PRE-APPROVAL. VERIFY THAT THE ACTUAL EQUIPMENT'S WEIGHT, CG LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS AND THE MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS
- VERIFY THAT THE COMBINATION OF S_{Ds} & z/h RESULT IN SEISMIC FORCES (E_h , E_v) THAT ARE NOT GREATER THAN THE VALUES ON THE DETAILS.



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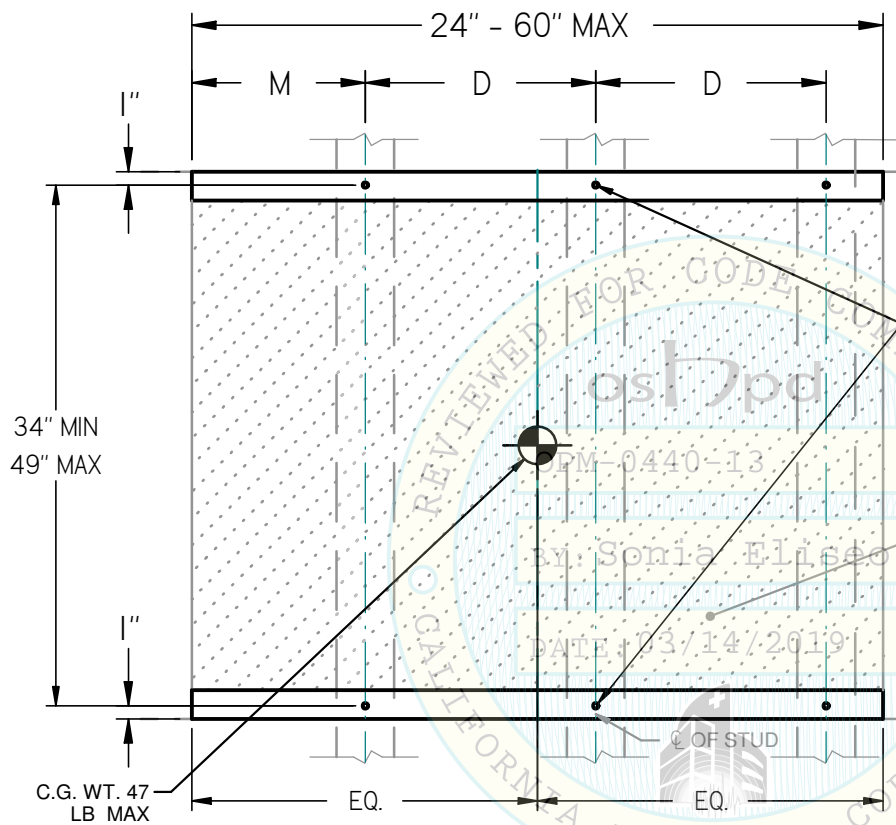
Equipment Type:

WALL MOUNT UNITS - TRAXX, EXHIBIT - (SEE SHEET 5)

SEISMIC SUPPORTS & ATTACHMENTS - WALL MOUNTED

Option1- Wall Tiles

Kimball International certifies this document as an outline drawing.
 Signature: Ricardo Espinosa
 Print Name: Ricardo Espinosa
 Title: R&D Engineering Mgr.
 Date: 01/14/2019



PRE-MANUFACTURED 3/32\"/>

USE TEKS SCREWS TO STEEL STUDS (16GA, 50 KSI MIN) 2 SCREWS PER STUD, TYP (1 UPPER & 1 LOWER AS SHOWN) SEE SCHEDULE FOR SCREW SIZE AND NUMBER OF STUDS ENGAGED

1/2\"/>

5/8\"/>

FRONT ELEVATION

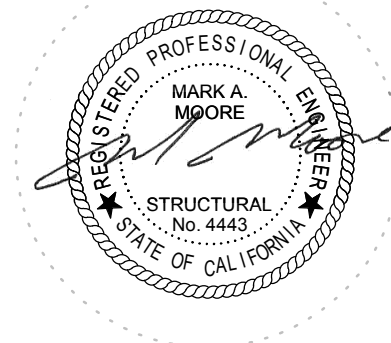
SIDE ELEVATION

TILE WIDTH (in)	24	30	36	42	48	54	60
STUDS SPACED OC (IN) "D"	12 16	12 16 24	12 16 24	12 16 24	12 16 24	12 16 24	12 16 24
WALL STUDS ENGAGED "Z"	2 2	2 2 2	3 3 2	3 3 2	4 3 2	5 4 3	5 4 3
MAX DIST. END TO LAST STUD OC "M"	6 4	9 7 3	6 2 6	9 5 9	6 8 12*	3 3 3	6 6 6
MAX WEIGHT (LB)	20	24	29	33	38	42	47
T _A (ASD) (LB/SCREW)	18 18	21 21 21	17 17 26	20 20 29	17 23 34	15 19 25	17 21 28
V _A (ASD) (LB/SCREW)	18 18	21 21 21	35 30 51	20 20 29	17 23 34	15 19 25	17 21 28
TEK SCREW SIZE #	10 10	10 10 10	10 10 12	10 10 12	10 10 14	10 10 10	10 10 12

* STRUCTURAL ENGINEER OF RECORD SHALL DESIGN THE BACKING PLATE (16GA, 50 KSI MIN) IF THE UNIT DOES NOT ENGAGE AT LEAST "Z" STUDS OR IF DIM "M" IS > 9" WITH STUD SPACING AS SHOWN. THIS CONDITION APPLIES TO PANELS 48" WIDTH AND PROVIDES FLEXIBILITY IN LOCATION OF PANELS IN RELATION TO STUDS FOR ALL OTHER PANELS.

NOTES: (SEE GENERAL NOTES IN SHEET 1 AS WELL)

- SUPPORTS & ATTACHMENTS DESIGN PER 2016 CALIFORNIA BUILDING CODE AND ASCE 7-10. ALLOWABLE STRESS DESIGN IS USED. HORIZONTAL FORCE (E_h) = 1.44 W_p (UNFACTORED) (S_{ds} = 2.0, a_p = 1.0, I_p = 1.5 & R_p = 2.5, z/h ≤ 1.0). VERTICAL FORCE (E_v) = 0.40 W_p (UNFACTORED)
- CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS PRE-PPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.



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Equipment Type:

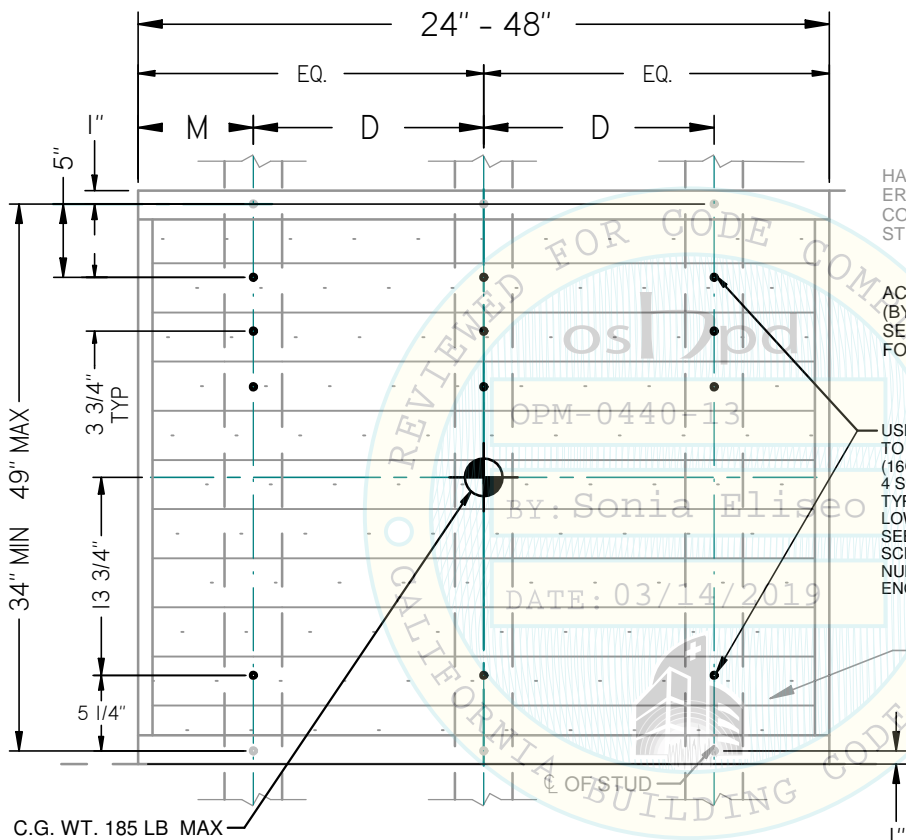
WALL MOUNT UNITS - TRAXX, EXHIBIT - (SEE SHEET 5)

SEISMIC SUPPORTS & ATTACHMENTS - WALL MOUNTED

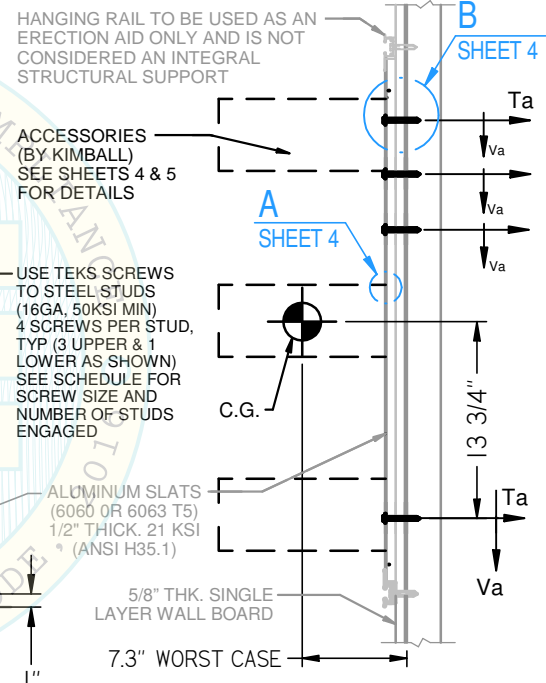
Option 2 - Slat Wall Tiles

Kimball International certifies this document as an outline drawing.

Signature: 
 Print Name: Ricardo Espinosa
 Title: R&D Engineering Mgr.
 Date: 01/14/2019



FRONT ELEVATION



SIDE ELEVATION

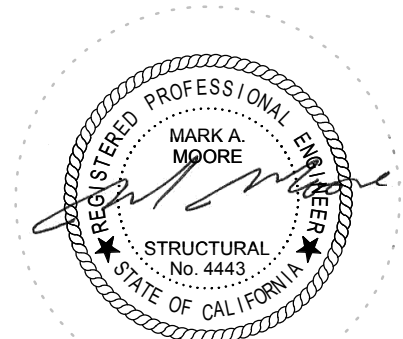
TILE WIDTH (in)	24		30		36		42		48				
STUDS SPACED OC (IN) "D"	12	16	12	16	24	12	16	24	12	16	24	12	16
WALL STUDS ENGAGED "Z"	2	2	2	2	2	3	3	2	3	3	2	4	3
MAX DIST. END TO LAST STUD OC "M"	6	4	9	7	3	6	2	6	9	5	9	6	8
SLAT TILE WEIGHT (LB)	50		62		75		85		98				
ACCESSORIES MAX WEIGHT *	45		57		66		78		55		87		
MAX WEIGHT PANEL + ACC. (LB)	95		119		141		163		140		185		
T _a (ASD) (LB/SCREW)	22	21	27	26	25	20	20	29	24	23	29	20	26
V _a (ASD) (LB/SCREW)	19	19	24	24	24	19	19	29	22	22	29	19	25
TEK SCREW SIZE #	10	10	10	10	10	10	10	10	10	10	10	10	10

* ALL ACCESSORIES SHOWN IN SHEETS 4 AND 5 CAN BE ATTACHED TO THE SLAT PANEL IN ANY COMBINATION AND QUANTITY, AS LONG THE SUM OF WEIGHTS DOES NOT EXCEED THE "ACCESSORIES MAX WEIGHT" VALUES SHOWN IN IN THE SCHEDULE.

- UNIT WIDTH 48" AT 24" SPACED STUDS IS NOT ALLOWED

NOTES: (SEE GENERAL NOTES IN SHEET 1 AS WELL)

- SUPPORTS & ATTACHMENTS DESIGN PER 2016 CALIFORNIA BUILDING CODE AND ASCE 7-10. ALLOWABLE STRESS DESIGN IS USED. HORIZONTAL FORCE (E_h) = 1.44 W_p (UNFACTORED) (S_{os} = 2.0, a_p = 1.0, l_p = 1.5 & R_p = 2.5, z/h ≤ 1.0). VERTICAL FORCE (E_v) = 0.40 W_p (UNFACTORED)
- CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS AND SHALL DESIGN THE BACKING PLATE (16 GA, 50 KSI MIN) IF THE UNIT DOES NOT ENGAGE AT LEAST "Z" STUDS AND/OR IF DIM "M" IS > 9". THIS CONDITION PROVIDES FLEXIBILITY IN LOCATION OF PANELS IN RELATION TO STUDS.



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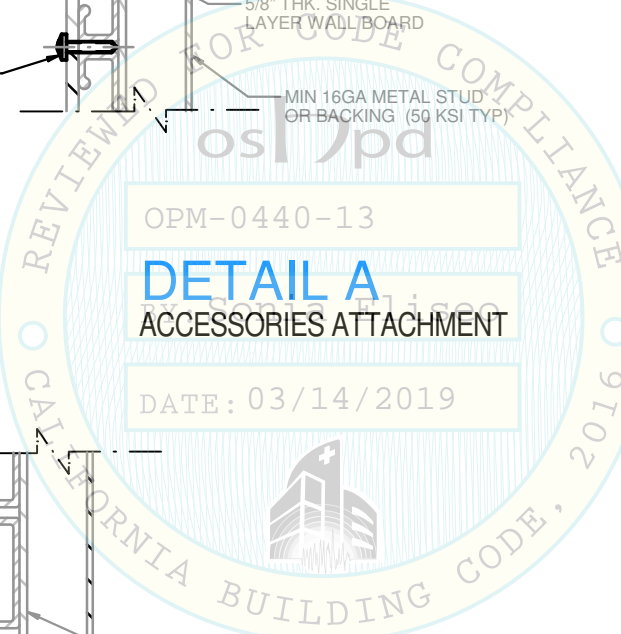
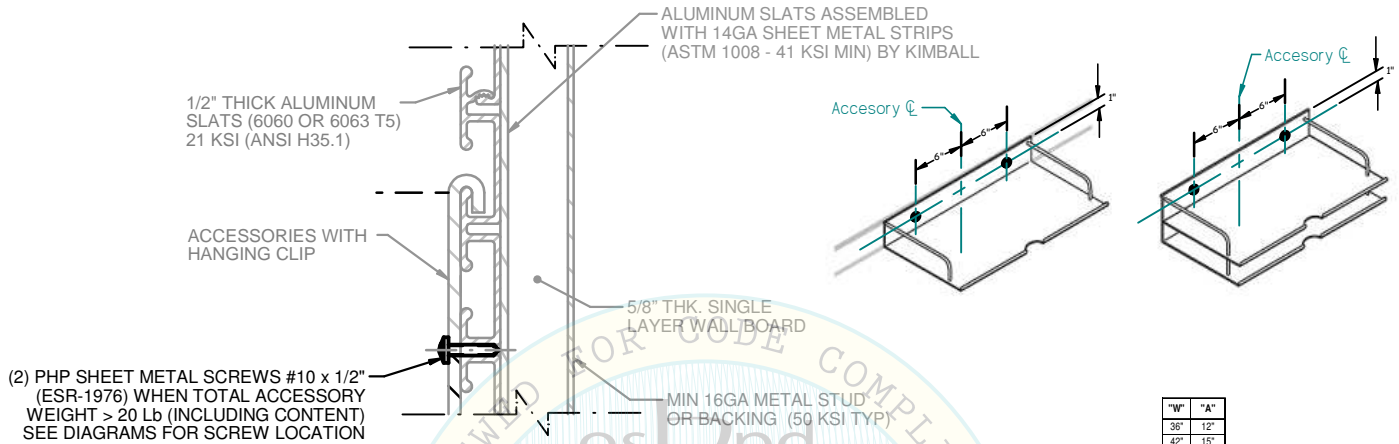
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Date: Jul. 10, 2017

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Equipment Type:

WALL MOUNT UNITS



1/2" THICK ALUMINUM SLATS (6060 OR 6063 T5) 21 KSI (ANSI H35.1)

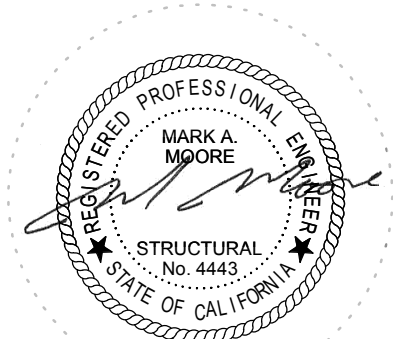
ALUMINUM SLATS ASSEMBLED WITH 14GA SHEET METAL STRIPS (ASTM 1008 - 41 KSI MIN) BY KIMBALL

SELF-DRILLING TEK SCREWS (SEE SCHEDULE IN SHEET 3 FOR SIZE AND QUANTITY) SEE DIMENSIONS "D" AND "M" ON SHEETS 2 AND 3 FOR SCREW LOCATION

.41" TYP
.86" TYP

5/8" THK. SINGLE LAYER WALL BOARD
MIN 16GA METAL STUD OR BACKING (50 KSI TYP)

DETAIL B



Equipment Manufacturer:



Kimball International, Inc. on behalf of Kimball Office and National Office Furniture

OPM-0440-13

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Equipment Type:

WALL MOUNT UNITS - TRAXX, EXHIBIT - (MODEL No.)

Series	Component	Model No.	"D" Deep	"W" Width	"H" Height
TRAXX	Aluminum Rail	TTWMT72	1/2	24", 30", 36", 42", 48", 54", 60"	2"
TRAXX	TILES Fabric covered fiberglass or particleboard	HIT WWHH A FIT WWHH A	1/2	24", 30", 36", 42", 48", 54", 60"	36", 37", 49"
TRAXX	SLAT TILES Aluminum	HIT WW36 SS36P HIT WW36 SS16 HIT WW36 SS24	1/2	24", 30", 36", 42", 48",	37"
PERKS	Accessories for Slat Tiles	See Appendix 1 in sheet 6			
TRAXX	MARKER BOARD TILES Particleboard	HIT WWHH M FIT WWHH M TPT WWHH MMFALUM	1/2	24", 30", 36", 42", 48", 54", 60"	36", 37", 49"
EXHIBIT	Aluminum Rail	11N72EXP1 11N72EXFP2	1/2	24", 30", 36", 42", 48", 54", 60"	2"
EXHIBIT	TILES Fabric covered fiberglass or particleboard	11N WWHH TBA 11N WWHH TB	1/2	24", 30", 36", 42", 48", 54", 60"	34", 37", 49"
EXHIBIT	MARKER BOARD TILES Particleboard	11N WWHH MB 11N WWHH MBP	1/2	24", 30", 36", 42", 48", 54", 60"	36", 37", 49"
EXHIBIT	SLAT TILES Aluminum	11N WWHH SW 11N WWHH SWTBF 11N WWHH SWTBFA	1/2	24", 30", 36", 42", 48",	36", 37", 49"
EXHIBIT	Accessories for Slat Tiles	See Appendix 1 in sheet 6			

Replace WW in Model No. with the values in Column "W"
 Replace HH in Model No. with the values in Column "H"
 i.e. HIT4236SS36P = TRAXX Slat Tile 42' width x 36" height
 11N4249TB = EXHIBIT Fabric Tile 42' width x 49" height

KIMBALL INTERNATIONAL WALL UNITS PRODUCT PORTFOLIO INCLUDES MULTIPLE MODEL NUMBERS WITH MULTIPLE POTENTIAL CONFIGURATIONS (RAILS WITH ANY MIX OF TILES).

SLAT TILES UNITS CAN BE USED WITH ACCESSORIES SHOWN IN APPENDIX 1 ON SHEET 6.



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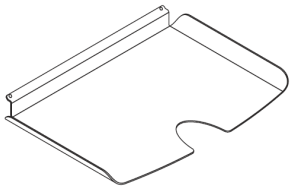
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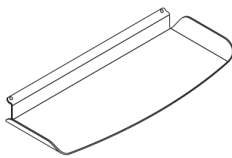
Equipment Type:

WALL MOUNT UNITS - PERKS, EXHIBIT - APPENDIX 1

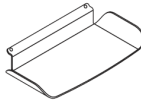
APPENDIX 1 - SLAT WALL TILES – PERKS AND EXHIBIT ACCESSORIES – FOR REFERENCE ONLY



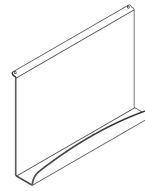
Paper Tray 9.5" x 13" x 1.3"
 Material: Metal
 Weight: 7 Lb
 Max. Load: 15 Lb
 Total Weight (loaded): 22 Lb



Personal Shelf 5.25" x 13" x 1.3"
 Material: Metal
 Weight: 6 Lb
 Max. Load: 15 Lb
 Total Weight (loaded): 21 Lb



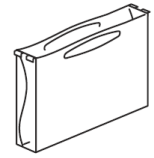
Phone Self 4" x 7.5" x 1.3"
 Material: Metal
 Weight: 2 Lb
 Max. Load: 6 Lb
 Total Weight (loaded): 8 Lb



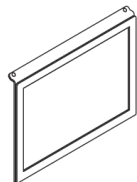
Dry-Erase Tray 2" x 12.5" x 8.3"
 Material: Metal
 Weight: 2 Lb
 Max. Load: 2 Lb
 Total Weight (loaded): 4 Lb



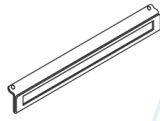
Cup Holder 4.2" x 3.6" x 3"
 Material: Metal
 Weight: 2 Lb
 Max. Load: 4 Lb
 Total Weight (loaded): 6 Lb



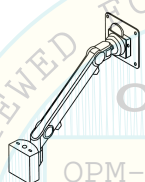
File Pocket 1.7" x 11.7" x 9.2"
 Material: Plastic
 Weight: 1 lb
 Max. Load: 3 Lb
 Total Weight (loaded): 4 Lb



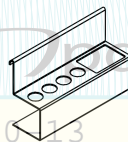
Picture Frame 1" x 10.2" x 8.5"
 Material: Metal
 Weight: 2 Lb



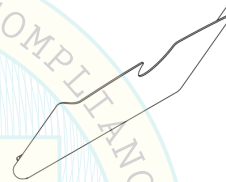
Name Plate 1" x 9" x 1"
 Material: Metal
 Weight: 1 Lb



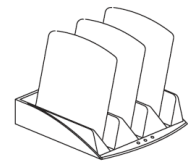
Monitor Arm Slat Mount 29.5" x 2.5" x 13.6"
 Material: Metal
 Weight: 12 Lb
 Max. Load: 20 Lb
 Total Weight (loaded): 32 Lb



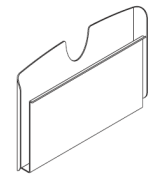
Phone/Ear Bud Holder 3" x 7" x 4"
 Material: Plastic
 Weight: 1 Lb
 Max. Load: 2 Lb
 Total Weight (loaded): 3 Lb



Slant Sorter 1.3" x 9" x 13"
 Material: Plastic
 Weight: 2 Lb
 Max. Load: 4 Lb
 Total Weight (loaded): 6 Lb



Slant Sorter 12.5" x 7" x 7.5"
 Material: Plastic
 Weight: 1 Lb
 Max. Load: 19 Lb
 Total Weight (loaded): 20 Lb

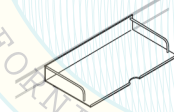


Vertical Sorter 1.7" x 11.7" x 9.2"
 Material: Metal
 Weight: 3 Lb
 Max. Load: 4 Lb
 Total Weight (loaded): 7 Lb

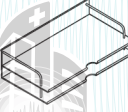


Metal Self - 9.1" x W x 2.25"

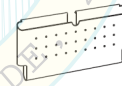
Width "W"	Weight	Max. Load	Total Weight (loaded)
24"	5 Lb	10 Lb	15 Lb
30"	6 Lb	13 Lb	19 Lb
36"	7 Lb	15 Lb	22 Lb
42"	8 Lb	18 Lb	26 Lb
48"	9 Lb	20 Lb	29 Lb



Single Side Tray 11.6" x 17" x 2.3"
 Material: Metal
 Weight: 5 Lb
 Max. Load: 20 Lb
 Total Weight (loaded): 25 Lb



Double Side Tray 11.6" x 17" x 5"
 Material: Metal
 Weight: 9 Lb
 Max. Load: 25 Lb
 Total Weight (loaded): 34 Lb



Single Pocket Organizer 1.1" x 15.6" x 7.2"
 Material: Metal
 Weight: 4 Lb
 Max. Load: 4 Lb
 Total Weight (loaded): 8 Lb



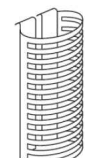
Slant Sorter w/Dividers 11.7" x 12" x 7.7"
 Material: Metal
 Weight: 4 Lb
 Max. Load: 19 Lb
 Total Weight (loaded): 23 Lb



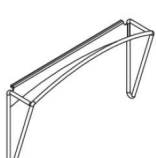
Pencil Cup 3.5" x 4" x 4"
 Material: Plastic
 Weight: 1 Lb
 Max. Load: 1 Lb
 Total Weight (loaded): 2 Lb



Binder Shelf 9.5" x 5" x 8"
 Material: Metal
 Weight: 3 Lb
 Max. Load: 10 Lb
 Total Weight (loaded): 13 Lb



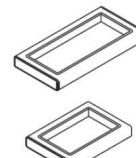
CD Holder 4" x 7.7" x 39.5"
 Material: Metal
 Weight: 3 Lb
 Max. Load: 3 Lb
 Total Weight (loaded): 6 Lb



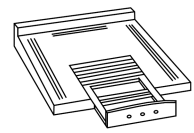
Hanging File Holder 3.3" x 15.5" x 8.3"
 Material: Metal
 Weight: 1 Lb
 Max. Load: 2 Lb
 Total Weight (loaded): 3 Lb



Note Poster 7/8" x 18" x 2"
 Material: Metal
 Weight: 2 Lb
 Max. Load: 1 Lb
 Total Weight (loaded): 3 Lb



Pencil Tray 5" x 10" x 1"
 Material: Steel
 Weight: 1 Lb
 Max. Load: 5 Lb
 Total Weight (loaded): 6 Lb



Phone Holder 9.5" x 8.5" x 2"
 Material: Plastic
 Weight: 1 Lb
 Max. Load: 14 Lb
 Total Weight (loaded): 15 Lb



Accessory Dish 6" x 6" x 1.1"
 Material: Metal
 Weight: 2 Lb
 Max. Load: 4 Lb
 Total Weight (loaded): 6 Lb



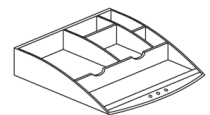
Utility Tray 6.3" x 9.1" x 1"
 Material: Metal
 Weight: 2 Lb
 Max. Load: 4 Lb
 Total Weight (loaded): 6 Lb



Binder Shelf 10.5" x 5" x 9"
 Material: Plastic
 Weight: 1 Lb
 Max. Load: 10 Lb
 Total Weight (loaded): 11 Lb



Shelf 24" 7" x 24" x 2"
 Material: Plastic
 Weight: 1 Lb
 Max. Load: 4 Lb
 Total Weight (loaded): 5 Lb



Accessory Tray 10" x 9.5" x 2"
 Material: Plastic
 Weight: 1 Lb
 Max. Load: 2 Lb
 Total Weight (loaded): 3 Lb