



UNIFYING PRINCIPLES

1. Approach All Situations With Integrity

Be honest, open and fair in all circumstances. Have a social conscience; take direction from the client without compromising integrity.

2. Be Creative

Challenge the possibilities by examining the obvious. Develop innovation through a detailed understanding of project needs. Be aware there is always the potential to do something meaningful.

3. Be Dedicated

Be personally committed to and concerned about each project. Honor promises and commitments. Make a meaningful contribution to society.

4. Maintain Open and Clear Communication

Communicate openly and clearly. Be available, sensitive and responsive to concerns raised by others, always striving for solutions.

5. Be Positive

Have a positive attitude. Be supportive of others. Focus on the positive attributes of each project. Gain fulfillment out of doing your best.

6. Believe in People

Respect the inherent worth of each individual. Trust in the natural goodness of people. Give others the support and opportunity necessary to do their best.

7. Work Together as a Team

Help one another. Appreciate the contribution of each team member. Invite input from others respecting their opinions and participation. Openly share knowledge and experience.

8. Strive for Excellence

Aspire to excellence as a goal for all endeavors. Strive to improve the quality of architecture by being creative, knowledgeable, and dedicated.

9. Be Wise

Apply our knowledge and past experiences to improve each new project. Know your limits, seeking assistance when necessary.

10. Consistency of Process

Maintain quality and creativity by utilizing a consistent approach and process.

11. Allow for Individuality and Personal Growth

Encourage individuals to utilize their special talents and to pursue personal interest within the framework of the firm.

12. Be Efficient

Make clear and purposeful decisions. Realize when you reach the point of diminishing returns. Understand the abilities and aspirations of others, matching them with tasks that are both challenging and stimulating.

13. Manage With Goals

Develop and maintain short and long range goals. Make decisions with foresight. Be flexible and responsive to spontaneous opportunities.

14. Strive for Simplicity

Develop clear solutions based upon a detailed understanding of project needs. Focus on providing quality architecture. Keep the bureaucracy subservient to the purpose.

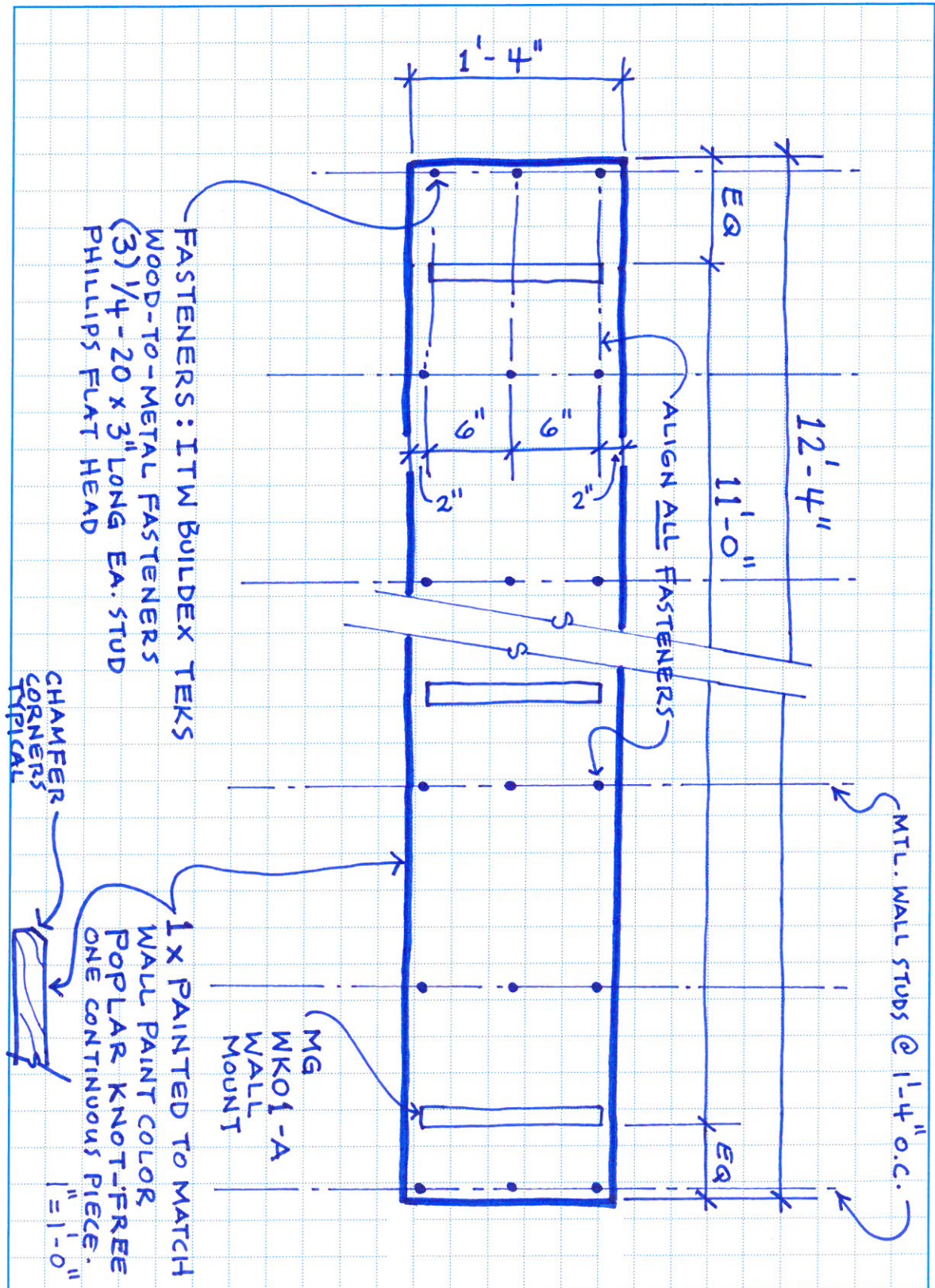
Project HMS BUILDING "B"

Project Number 1110102

Subject _____

Date 1:53 PM 5/25/2016

WALL BACKING FOR WALL MOUNTED
CLASSROOM RACKS - WK01-A

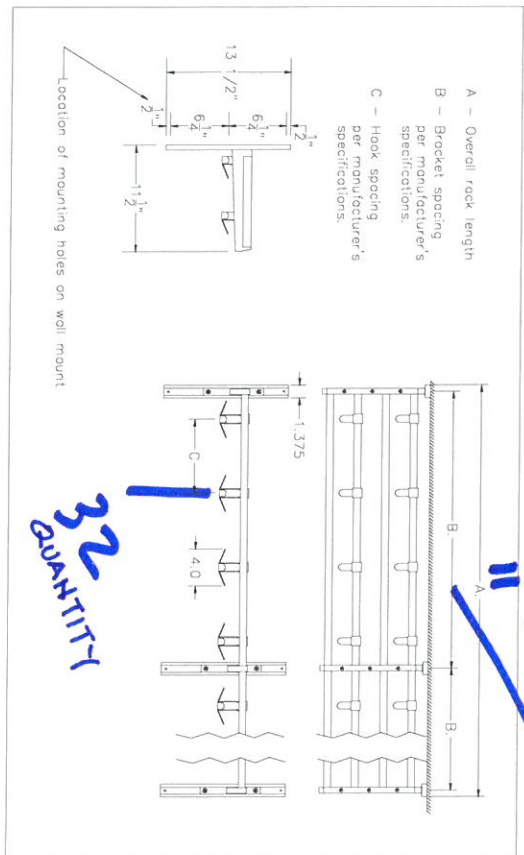




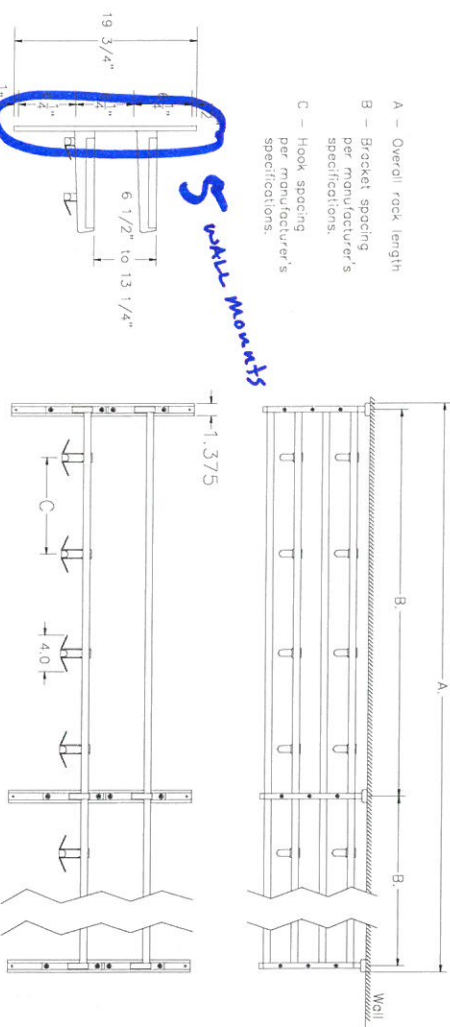
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WK Hook Style Wall Racks

WK01-A

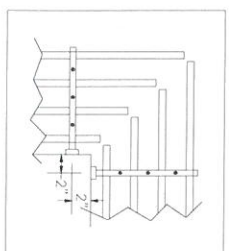
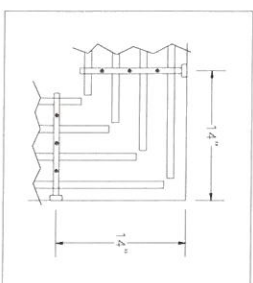


11 TOTAL LENGTH
32 3/4 WALL MOUNT SPACING



WK02-A

5 WALL MOUNTS



Jan

12-4"

$$\begin{array}{r} 12 \\ -0 \\ \hline 12 \\ -4 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 1-4 \\ -1-1/2 \\ \hline 2-1/2 \end{array}$$



WALL MOUNTED RACKS WH/WK/WU SERIES

Wall mounted coat racks are custom built to your length requirements. One or two shelves can be vertically adjusted in their steel channels to provide needed space between shelves and appropriate hanging distance to the floor. WH hanger bar style, WK hook style and WU boot shelf or utility shelf style are available in natural oak (OK)*, anodized aluminum (AL) or powder coated steel (ST) finish.

SPECIFICATIONS:

Furnish and install Architectural Series Model number ____ coat and hat racks as manufactured by Magnuson Group Inc.

Shelves shall consist of four 3/4" square 18 gauge powder coated steel, silver anodized aluminum or natural oak shelf bars.

Brackets shall be 18 gauge die formed and welded box construction steel arm and back plate with bracket cap to positively hold and enclose tube ends.

Wall mounts shall be 16 gauge formed steel "U" channels to provide large load bearing surface on wall and height adjustment of shelves; to be fitted with molded end enclosures.

Hooks shall be 14 gauge die formed steel, powder coated for safety and rust resistance, three pronged design provides high storage capacity.

HANGER STYLE WH SERIES: Wall rack hanger bar shall be 1" o.d. 18 gauge chrome plated round steel tube plugged at ends. Optional hangers shall be provided of Manufacturer's Model ____ spaced ____ hangers per linear foot of hanger bar. Available with one (WHO1A) or two (WHO2A) shelves which can be vertically adjusted.

HOOK STYLE WK SERIES: Triple prong powder coated steel hooks (Model K73) shall be mounted on 2nd and 4th tubes per manufacturer's standard arrangement and number. Hooks shall be of manufacturer's standard colors of Charcoal Gray, Black or Sandstone as selected by architect. Available with one (WKO1A) or two (WKO2A) shelves which can be vertically adjusted.

UTILITY/BOOT SHELF WU SERIES: WU01A single shelf boot rack shall be mounted ____ inches AFF in specified length.

WU01A can be used as a utility shelf or in conjunction with hangers and receptacles mounted on first tube. Receptacles shall be Model **SR34** spaced ____ per foot with **MG17B ball top hardwood hangers** or **MG17PX T-top plastic hangers**.

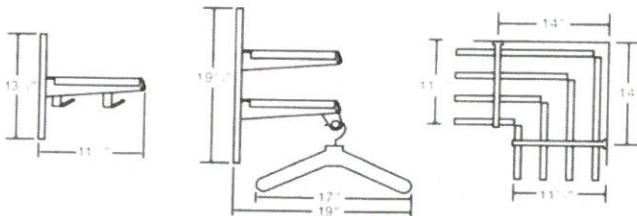
MODEL K-73 POWDER COATED TRIPLE PRONG STEEL COAT HOOKS fit 3/4" square tubing and are standard on WK and WEX Series. Charcoal Gray, Black or Sandstone powder coated finish.

STANDARD STEEL COLORS: Gray, Sandstone, Black, Lunar White or Bronze Metallic powder coat.

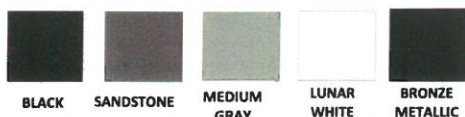
SHELF TUBES: Choose from manufacturer's standard steel colors or Silver anodized aluminum or natural oak shelf bars.

SHELF BRACKETS: Choose from manufacturer's standard steel colors of Medium Gray, Sandstone, Black, Lunar White or Bronze Metallic powder coated steel finish.

UTILITY HOOK STRIP WEX SERIES: Model **K-73** triple prong powder coated hooks mounted on 3/4" square 18 gauge steel tube provide additional compact coat or book bag storage. Mounted directly to wall or combined in wall channels of Model WU, WH and WK wall racks.



*WH & WU series only.



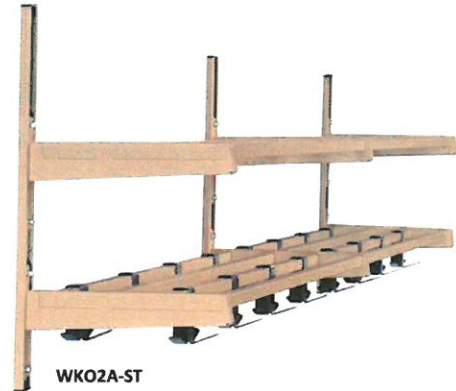
Complete specs and CAD drawings, can be viewed on our website www.magnusongroup.com



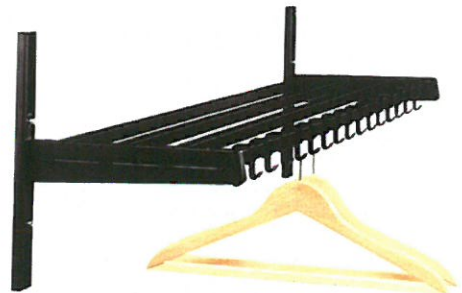
WHO1A-ST



WKO1A-ST



WKO2A-ST



WU01A-ST W/SR34 & MG17B



WU01A-ST



WEX HOOK STRIP

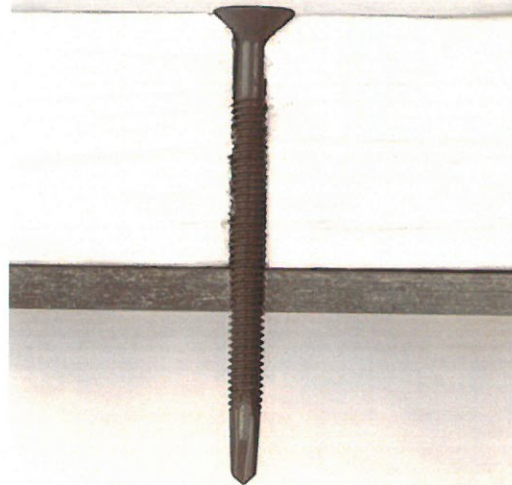
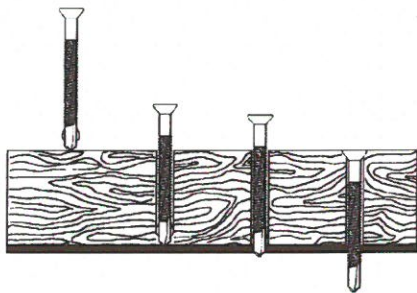


K-73

JARED
CASCADDEN

Wood-to-Metal Fasteners

No pre-drilling, fast, efficient attachment of wood to steel.



Applications

-  Plywood roof and floor sheet to steel frames.
-  Plywood fascia to steel frames.

Product Features

-  Point has precise cutting edges to improve drill performance with less effort.
-  Special winged fasteners ream a hole in wood preventing thread engagement during drilling.
-  Wafer head design has a large bearing surface ideal for plywood.
-  Flat head design countersinks and seats flush in wood.
-  Gray Spex™ finish provides excellent corrosion resistance and lower tapping torque.
-  Compatible with ACQ treated wood.

Product Specifications

Diameter	#10, #12 and 1/4
Thread Form	10-16
	10-24
	12-24
	1/4-20
Head Style	#10: #2 Phillips Flat; #2 Phillips Wafer; #2 Phillips Square-Drive® Flat
	#12: #3 Phillips Flat
	1/4: #3 Phillips Flat
Drill Point	Teks 3
	Teks 4
Finish	Gray Spex

Head Styles



Wafer Head

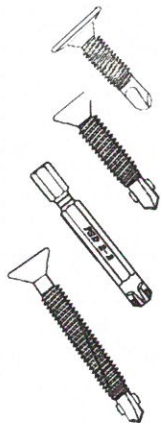


Phillips Flat Head



Phillips Square Drive®

Selector Guide



Part Number	Description	Head Style	Drill Point	Drill & Tap Capacity	Wood Attachment Range	Box Qty	Applications
1565500	10-16 x 1"	Wafer	#3	.030-.175	1/4"-1/2"	2,500	• Plywood, mansard, fascia, roofing, flooring to steel framing
1791000	10-16 x 1-13/16"	PSD Flat	#3	.030-.175	1/4"-3/4"	2,500	
1077000	10-24 x 3/4"	Wafer	#3	.036-.175	1/4"-3/8"	8,000	
1079000	10-24 x 1"	Wafer	#3	.036-.175	1/4"-1/2"	5,000	
1547500	10-24 x 1-1/4"	PFH	#3	.036-.175	1/4"-3/4"	5,000	
1643100	10-24 x 1-1/4"	Wafer	#3	.036-.175	1/4"-3/4"	5,000	
1548500	10-24 x 1-1/2"	PFH	#3	.036-.175	1/4"-1"	3,000	
1644100	10-24 x 1-1/2"	Wafer	#3	.036-.175	1/4"-1"	3,000	
1082000	10-24 x 1-7/16"	*PFH	#3	.060-.175	1/4"-3/4"	3,000	
1588910	#2 PSD Bit					1	• Plywood, 2 x 4's headers to steel framing
1552500	12-24 x 1-5/8"	*PFH	#4	.125-.250	3/4"-1-1/8"	2,500	
1092000	12-24 x 2-1/4"	*PFH	#4	.125-.250	3/4"-1-3/8"	2,000	
1094000	12-24 x 2-3/4"	*PFH	#4	.125-.250	3/4"-1-5/8"	1,500	• 2 x 4's to steel framing
1096000	1/4-20 x 3"	*PFH	#4	.125-.250	3/4"-2"	1,000	

* With wings ** With ribs under head

Performance Data

PULLOUT VALUES (average lbs. ultimate)											
Fastener	Steel Gauge										
Dia.	Pt.	26	24	22	20	18	16	14	12	3/16	1/4
#10-16	3	-	208	266	299	499	708	967	1474	-	-
#10-24	3	-	-	-	334	495	702	900	1570	3865	4101
#12	4	-	-	-	-	-	-	-	1508	4297	-
1/4	4	-	-	-	-	-	-	-	1803	-	-

SHEET STEEL GAUGES								
Gauge No.	12	14	16	18	20	22	24	26
Decimal Equivalent	.105"	.075"	.060"	.048"	.036"	.030"	.024"	.018"

The values listed are ultimate averages achieved under laboratory conditions and apply to Buildex manufactured fasteners only. Appropriate safety factors should be applied to these values for design purposes.

FASTENER VALUES			
Fastener (dia-tpi)	Tensile (lbs. min.)	Shear (avg. lbs. ult.)	Torque (min. in. lbs.)
10-16	1936	1400	61
10-24	2702	1500	65
12-24	3165	2200	150
1/4-20	3860	2700	168

SHEAR VALUES (average lbs. ultimate)							
Fastener	Steel Gauge (lapped)						
Dia.	Pt.	20	18	16	14	12	1/8
#10	3	728	1266	1540	1522	-	-
#12	4	-	-	-	-	2048	2030
1/4	4	-	-	-	-	2650	2820

Installation Guidelines

- A standard screwgun with a depth sensitive nosepiece should be used to install Tekes. For optimal fastener performance, the screwgun should be a minimum of 6 amps and have an RPM range of 0-2500.
- Adjust the screwgun nosepiece to properly seat the fastener.
- Worn or damaged bit tip should be replaced.
- The fastener is fully seated when the head is flush with the work surface.
- Overdriving may result in torsional failure of the fastener or stripout of the substrate.
- The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.
- All #10 diameter "Winged" parts must be driven into a minimum of 16 GA steel thickness.
- All 1/4 and #12 diameter "Winged" parts must be driven into a minimum of 1/8" steel in order to break the wings consistently.



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