

*EXTERIOR SYSTEM  
INSTALLATION INSTRUCTIONS*

11/20/14



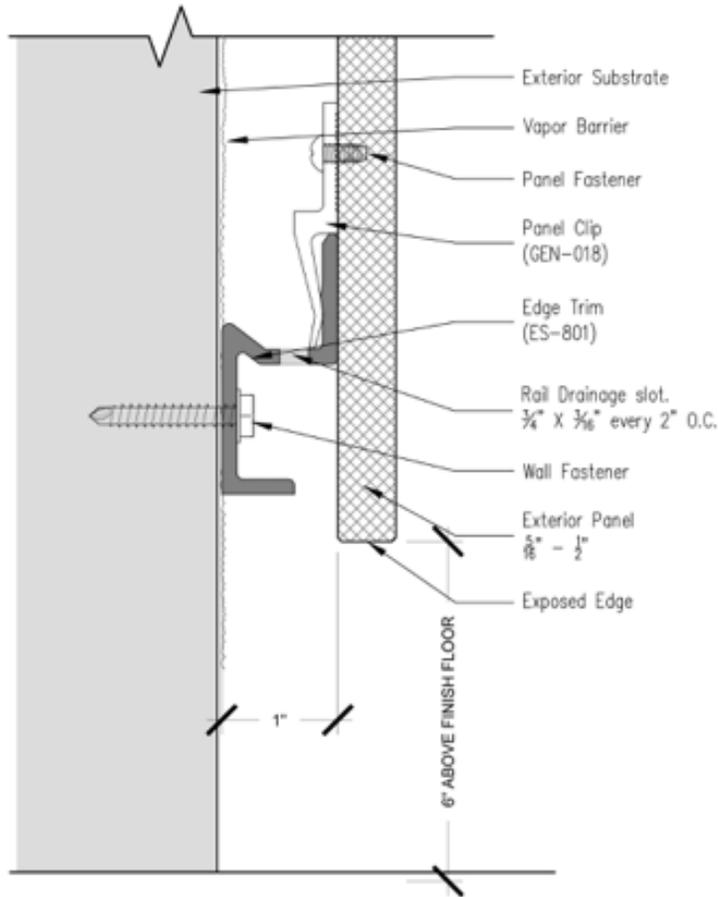
*WALL PANEL SYSTEMS, INC.*

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## WPS ES-400 & 500 INSTALLATION INSTRUCTION.



THE WPS ES-400 & 500 SYSTEMS FAÇADE PANELS ARE DESIGNED FOR USE AS AN EXTERNAL WALL CLADDING IN CONJUNCTION WITH A PROPER WEATHER RESISTANT BARRIER TO FORM A BACK-VENTILATED, RAIN-SCREEN DESIGN. THE CLADDING CREATES A PROTECTIVE LAYER FOR THE BUILDING'S WATERPROOFING MEMBRANE(S) BY PROVIDING A DURABLE AND AESTHETICALLY PLEASING SURFACE. WHILE THE PANELS WILL SIGNIFICANTLY DISCOURAGE THE ENTRY OF SURFACE WATER, SOME WATER WILL ENTER THE CAVITY BEHIND THE PANELS AND MUST BE REPELLED BY THE WEATHER RESISTANT BARRIER (WRB) AND EXPELLED BY THE WALL CLADDING SYSTEM. THE AMOUNT OF WATER THAT WILL ENTER IS A FUNCTION OF THE PRESSURE DROP ACROSS THE RAIN-SCREEN TO THE CAVITY. THE CLADDING FUNCTIONS AS A PROTECTION LAYER FOR THE BUILDING WATERPROOFING BY PROVIDING A DURABLE, VISUALLY

APPEALING SURFACE. THE CONTRACTOR, DESIGNERS, AND INSTALLERS MUST BE CLEAR ON THE LOCATION OF THE BUILDING ENVELOPE DRAINAGE PLANE. THE DRAINAGE PLANE EXISTS BEHIND THE ES-400 AND 500 SYSTEMS WHERE THE WEATHER RESISTANT BARRIER (WRB) IS APPLIED TO THE SHEATHING, NOT AT THE FACE OF THE PANELS (OR IN THE PANEL REVEALS).



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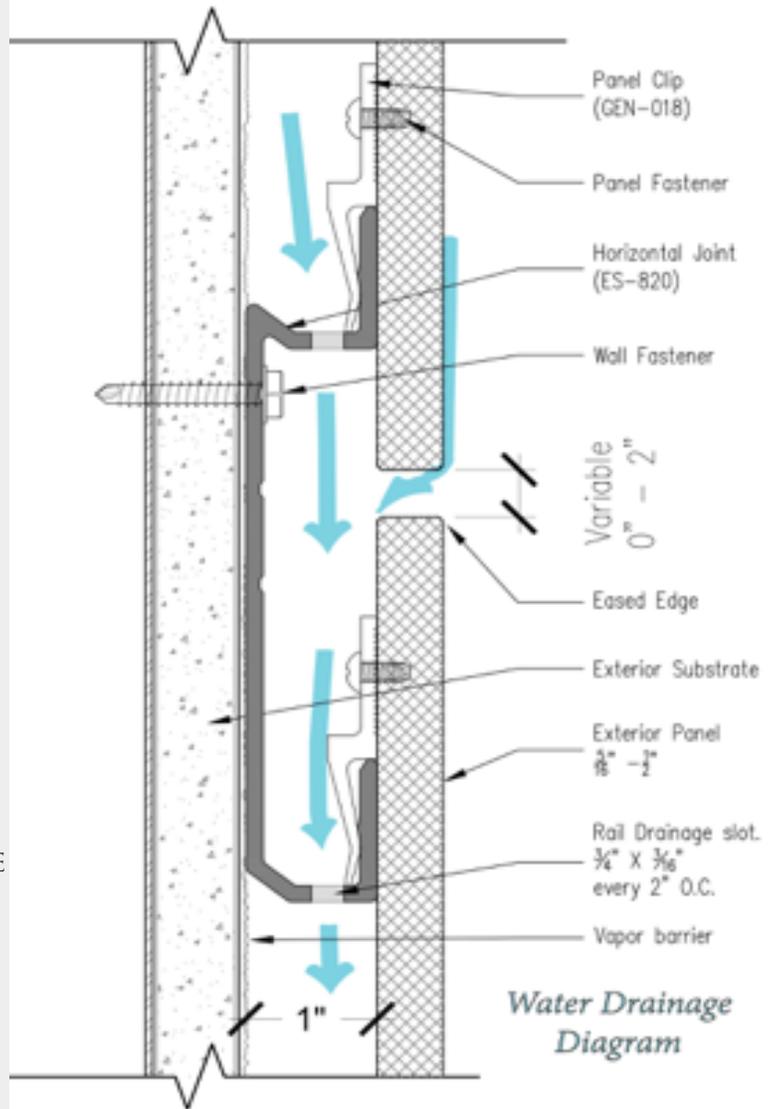
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## EXTERNAL WALL CLADDING

THE ES-400 & 500 SYSTEMS IS DESIGNED TO TRANSFER WIND LOADS TO THE SUPPORTING STRUCTURE. THE PANELS AND THEIR RESPECTIVE SUB-FRAMING ARE NOT DESIGNED TO CONTRIBUTE TO THE STRUCTURAL STABILITY OF THE BUILDING. DUE TO FREE-FLOWING AIR IN THE CAVITY BEHIND THE PANELS, THE ES-400 & 500 PANEL SYSTEMS REQUIRES A COMPLETE WEATHER RESISTANT BARRIER ON ANY WALL WHICH IT IS INSTALLED. THE INTEGRITY OF THE WRB DESIGN CAN BE VERIFIED BY WATER TESTING THE WALLS AFTER THE WRB IS INSTALLED AND PRIOR TO THE APPLICATION OF THE RAIN-SCREEN PANEL SYSTEM. IN THE AREA WHERE PANELS ARE BEING INSTALLED, THE BUILDING ENVELOPE SHOULD BE COMPLETELY WEATHER TIGHT PRIOR TO THE INSTALLATION OF THE WPS ES-400 & 500 SYSTEMS. THE ENVELOPE DOES NOT RELY ON THE FACE PANEL (WPS ES-400 & 500 SYSTEM) FOR WATER TIGHTNESS. PLEASE SEE THE MANUFACTURER'S RECOMMENDATIONS FOR ADDITIONAL INFORMATION ON WEATHER RESISTANT BARRIERS.



## FIRE RESISTANCE

WPS ES-500 FIRE RESISTANCE RATINGS VARY DEPENDING ON THE TYPE OF COMPOSITE PANEL MATERIAL SELECTED. IT IS IMPORTANT TO DETERMINE THE PROPER CLASS OF MATERIAL REQUIRED FOR YOUR PROJECT. THE DESIGN SHOULD CONSIDER ANY COMBUSTIBLE MATERIAL BEHIND THE CLADDING WHICH MAY BE EXPOSED IN A FIRE. IT IS THE RESPONSIBILITY OF THE PROJECT DESIGNER TO DETERMINE THE COMBUSTIBILITY OF MATERIALS BEHIND THE CLADDING SYSTEM AND IMPLEMENT CAVITY BARRIERS OR OTHER MEASURES AS REQUIRED UNDER RELEVANT BUILDING REGULATIONS. ADDITIONAL MEASURES FOR VENTILATION MAY BE REQUIRED IF A CAVITY BARRIER IS CREATED BEHIND THE WPS ES-400 OR 500 SYSTEMS. PLEASE CONTACT YOUR WPS REPRESENTATIVE FOR FURTHER INFORMATION. THE WPS ES-400 OR 500 RAIN-SCREEN SYSTEMS DOES NOT TYPICALLY CONTRIBUTE TO THE FIRE RESISTANCE OF ANY EXTERNAL WALL OR LOAD BEARING STRUCTURE, THOUGH PANEL MATERIAL WITH A FIRE-RATED CORE IS ALSO AVAILABLE.



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## DESIGN OF THE CLADDING SYSTEM

PRIOR TO INSTALLING THE WPS ES-400 & 500 SYSTEM, VERIFY THE BUILDING IS PROPERLY PROTECTED WITH A WEATHER RESISTANT BARRIER (WRB). SPECIAL ATTENTION SHOULD BE TAKEN AT AREAS WHERE THE WRB IS INTERRUPTED. PENETRATIONS (INTERRUPTIONS) INCLUDE BUT ARE NOT LIMITED TO: FLASHINGS, WINDOWS, DOORS, SCUPPERS, ELECTRICAL BOXES, PIPE PENETRATIONS, ETC. PLEASE SEE MANUFACTURER'S DOCUMENTATION FOR ADDITIONAL INFORMATION REGARDING WEATHER RESISTANT BARRIERS. VENTILATION SPACES SHOULD ALLOW FOR UNINHIBITED VERTICAL AIRFLOW. THE DESIGN OF THE WPS ES-500 RAIN-SCREEN SYSTEM ALLOWS IT TO BE FASTENED DIRECTLY TO THE WALL FRAMING OR FURRING STRIPS. ACHIEVING A VENTILATION COMPARTMENT IS ACCOMPLISHED BY SPACING THE SYSTEM FROM THE WALL. WITHOUT THIS ESSENTIAL SPACING, THE SYSTEM WILL NOT BREATHE CORRECTLY AND WILL LIKELY TRAP WATER OR CONDENSATION. FOR PROPER VENTILATION, THE SYSTEM MUST BE INSTALLED WITH CLIPS AT EVERY LOCKING POINT, WHICH, ASIDE FROM PROVIDING THIS ESSENTIAL VENTILATION, WILL ALLOW PANELS TO BE INTERLOCKED WITH ES-820 RAIL FOR INCONSISTENCIES IN THE SUBSTRATE, KEEPING THE PANEL FACES ON THE SAME PLANE.

## DELIVERY, SITE HANDLING AND STORAGE

UPON ARRIVAL OF YOUR ORDER, CONFIRM THE INVENTORY AGAINST THE PACKING SLIP AND INSPECT ALL PANELS AND ACCESSORIES. IF THERE ARE ANY SIGNS OF DAMAGE, NOTE THE BILL OF LADING FOR THE TIME OF DELIVERY AND DOCUMENT THE DAMAGE. FAILURE TO DO SO CAN MAKE IT DIFFICULT TO FILE A FREIGHT CLAIM. SEND A LIST OF DAMAGED MATERIALS TO WPS AND CONTACT YOUR WPS REPRESENTATIVE FOR FURTHER INSTRUCTIONS. IT IS CRUCIAL THAT DAMAGED PANELS, ACCESSORIES, OR PACKAGING BE REPORTED TO WPS AS SOON AS THEY ARE DISCOVERED. WPS PANELS SHOULD BE TRANSPORTED USING WPS STANDARD PALLETS OR CRATES. BAILING BANDS ARE TO BE REMOVED UPON DELIVERY. LIFT THE PANELS FROM EACH STACK INDIVIDUALLY, TAKING CARE NOT TO SCRATCH OR DAMAGE ANY ADJACENT PANELS WHEN REMOVING PANELS FROM THE STACK. PANELS CAN BE STORED VERTICALLY ON A FLAT SURFACE FREE OF DEBRIS, OR KEPT ON PALLETS OR CRATES WITH SUPPORTS AT 12 INCHES ON CENTER OR LESS. ALL HORIZONTAL SURFACES, INCLUDING PANELS AND PALLETS, SHOULD BE COVERED WITH A CLEAN MEMBRANE OR BOARD TO PROTECT THE PANELS FROM DAMAGE. UNWRAPPED STACKS SHOULD BE COVERED WITH PLASTIC SHEETING IN ORDER TO MINIMIZE DAMAGE FROM DIRT AND MOISTURE. REMEMBER TO REMOVE BAILING BANDS PRIOR TO STORAGE. PANELS NEED TO BE STORED IN AN AREA THAT IS COOL, VENTILLATED, DRY AND WELL SHEILDED FROM THE ELEMENTS



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## PREPARING PANELS FOR USE

PAY CLOSE ATTENTION TO THE DIRECTION OF THE MATERIAL DURING INSTALLATION AND FIELD FABRICATION. THE MAJORITY OF WPS MATERIAL IS DIRECTIONAL; THAT IS, DURING MANUFACTURING AND FABRICATION THE LABEL IS APPLIED TO THE PANEL MATERIAL IN ONE CONSISTENT DIRECTION. IN ORDER TO MAINTAIN COLOR AND FINISH CONSISTENCY ACROSS PANELS, EACH PANEL'S MATERIAL MUST COURSE IN THE SAME DIRECTION. MOST METALLIC AND WOOD GRAIN MATERIALS HAVE ARROWS ON THE PROTECTIVE FILM OR ON THE BACK OF THE PANELS THAT SHOW WHICH DIRECTION THE FINISH WAS APPLIED. WPS TAKES THIS INTO CONSIDERATION DURING PANEL FABRICATION AND NOTES ARE MADE ON THE WPS SHOP DRAWINGS TO VERIFY THE DIRECTION IN WHICH TO INSTALL THE PANELS. REMEMBER, ALL PANELS NEED TO BE INSTALLED IN THE SAME DIRECTION THROUGHOUT A PROJECT UNLESS INTENTIONALLY NOTED OTHERWISE. TO AVOID SCRATCHING THE PANEL FINISH, ALL CUTTING, ROUTING, AND DRILLING SHOULD BE PERFORMED FROM THE BACKSIDE OF THE PANEL MATERIAL. PANEL MATERIAL CONSISTS OF LAYERS OF 5/16"-1/2" THICKNESSES, IN MOST CASES A FIRE-RATED (FR) CORE WHICH ARE ALSO FAIRLY EASY TO CUT AND ROUTE. FOR STRAIGHT CUTTING, USE A CIRCULAR SAW WITH A FINE-CARBIDE TOOTH BLADE. FOR ARCHES, HOLES, FINE PRECISION CUTS, AND OTHER DETAILED AREAS, USE A JIG SAW WITH A FINE-TOOTH METAL OR WOOD BLADE. FOR ROUTING, USE A STANDARD ROUTER WITH A 1/2" INCH 100 DEGREE STRAIT CARBIDE TYPE ROUTER BIT. FOR DRILLING, USE A STANDARD METAL OR WOOD DRILL BIT.

## INSPECTING THE BUILDING

THE BUILDING SUBSTRATE MUST BE PLUMB AND SQUARE. A PANEL SYSTEM INSTALLED OUT OF PLUMB WILL RESULT IN INCONSISTENT GRID LINES, AS WELL AS IMPROPER ALIGNMENT AT WINDOWS, DOORS, CORNERS, AND OTHER TRANSITIONAL AREAS; PANELS INSTALLED ON AN INCONSISTENT SUBSTRATE WILL MOST LIKELY NEED TO BE RE-INSTALLED. PLEASE MAKE SURE TO VERIFY THE CONDITION OF THE SUBSTRATE IS ABLE TO RECEIVE THE PANELS BEFORE PROCEEDING.

## INSTALLING THE PANELS

VERTICAL AND HORIZONTAL CONDITIONS START BY RUNNING PLUMB LINES OR A LASER AT ALL PANEL TRANSITIONS. THIS IS DONE TO DETERMINE THE PROPER DISTANCE FOR SHIMS BEFORE INSTALLING THE ES-801 OR ES-820 RAILS ATTACHMENTS SYSTEM. ALSO LOCATE A BASE CONTROL LINE (STARTING ELEVATION AND ANGLE BENCHMARK) TO HELP KEEP THE PANEL SYSTEM SQUARE & LEVEL. PLACE THE PANEL ON THE WALL AND TEMPORARILY SECURE ITS POSITION WITH SHIMS, BLOCKS, OR CLAMPS. ENSURE THAT THE PANEL FASTENERS ARE PROPERLY CENTERED IN PANEL HOLES. EACH PANEL SHOULD HAVE ONE FIXING POINT (A SMALLER HOLE THAN THE OTHERS) THAT CONTROLS THE POINT OF EXPANSION AND CONTRACTION. ALL FIXING POINTS SHOULD ALIGN WITH THE SURROUNDING PANELS. FIXING HOLES MUST BE LOCATED NOT LESS THAN 3/4" AND NOT MORE THAN 2" FROM THE PANEL EDGES. CORNER FIXINGS SHOULD BE LOCATED NOT MORE THAN 2" FROM EITHER EDGE. DO NOT OVER TIGHTEN THE SCREWS AS STRIPPING OR SHEARING THE FASTENER HEAD MIGHT OCCUR. IT IS NORMALLY THE PROJECT STRUCTURAL ENGINEER'S RESPONSIBILITY TO CONFIRM SIZE AND FREQUENCY OF ATTACHMENTS. THE PANELS ARE NOT DESIGNED TO SUPPORT ANY VERTICAL OR HORIZONTAL LOADS. IF ANY HEAVY OBJECTS ARE TO BE SUPPORTED BY THE PANELS, OR IF THEY ARE TO BE SUBJECT TO EXTRA MECHANICAL STRESS, ADDITIONAL MEASURES MAY NEED TO BE TAKEN. PLEASE CONTACT US (WPS) DIRECTLY FOR ASSISTANCE.

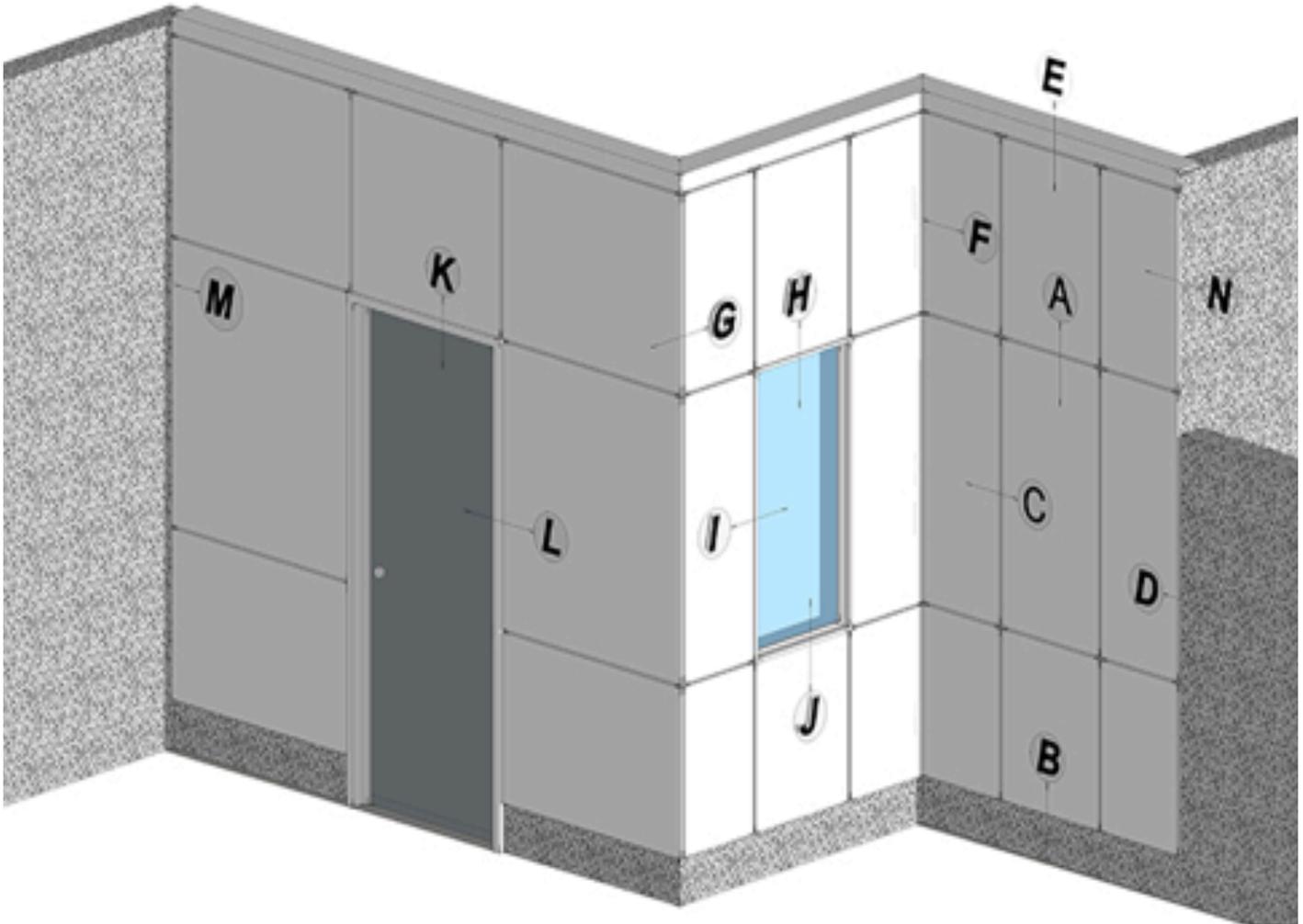


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## HORIZONTAL CONDITIONS

AFTER SETTING THE LASER AND BENCHMARK

- 1- INSTALL THE HORIZONTAL BOTTOM RAIL ES-801 AND FOLLOW THE WPS ENGINEERING SHOP DRAWINGS FOR THE DESIGNED LAYOUT. MAKE SURE TO USE THE BENCHMARK AS THE ONLY REFERENCE FOR ALL YOUR HORIZONTAL DIMENSIONS. INSTALL THE HORIZONTAL RAIL ES-820 USING PROPER FASTENING TYPE TO THE BUILDING SUBSTRATE.
- 2- INSTALL MID-WALL RAILS ES-801 IF YOUR PANELS HEIGHT LAYOUT GREATER THAN 36" (ALWAYS REFER TO WPS SHOP DRAWINGS FOR ES-801 MID-WALL LOCATIONS AS WELL FOR ES-820 HORIZONTAL JOINS).



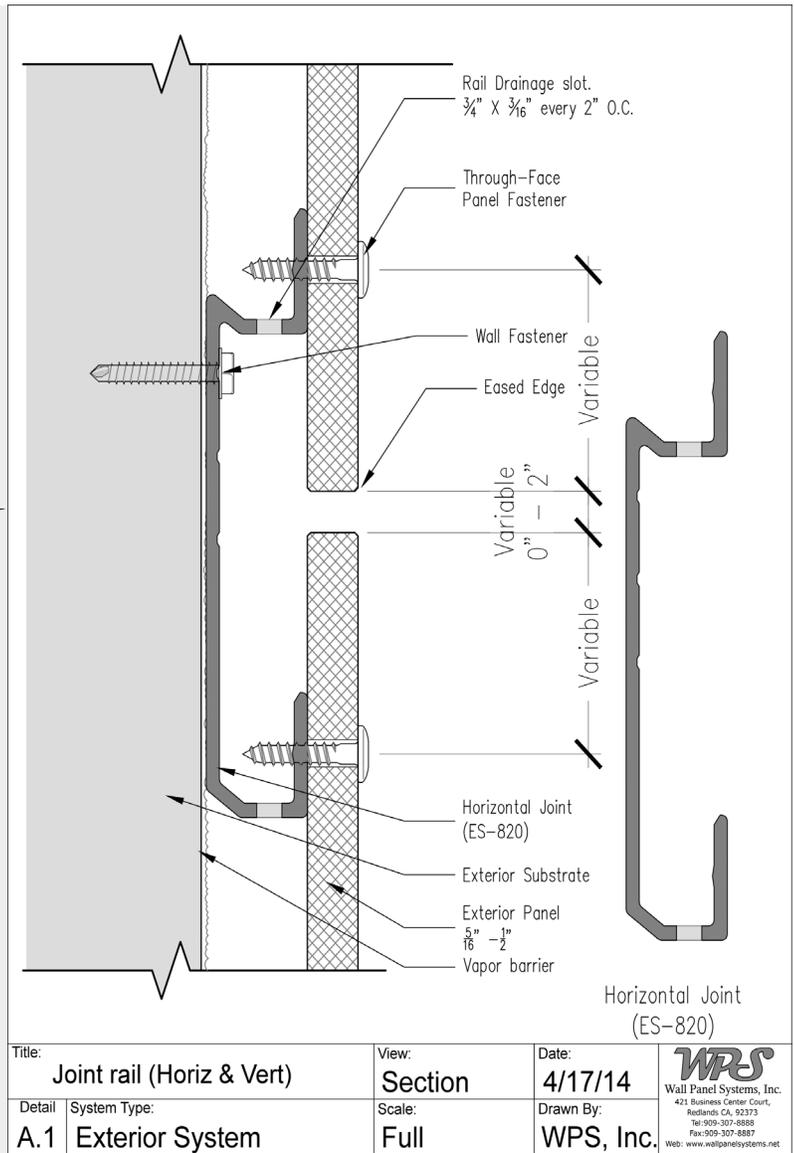
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3- ALL PANELS' MATERIAL WILL BE FABRICATED WITH PANEL CLIPS INSTALLED ON THE BACK OF EACH PANELS FOR ES-500 SYSTEM, OR PREDRILLED FOR EXPOSED FASTENERS FOR ES-400 SYSTEM. INSTALL THE FIRST PANEL IN A CRITICAL TRANSITION AREA LIKE A CORNER. PROPER MOUNTING OF THE FIRST PANEL HELPS WITH THE ALIGNMENT OF ADJACENT PANELS. INSTALL THE PANEL AT THE LOWEST POINT TO MEET YOUR CONTROL LINE WITH THE BACKSIDE OF THE SYSTEM SLIGHTLY PROUD OF THE PLUMB LINE. THIS WILL ESTABLISH A CRITICAL, AND ACCURATE, STARTING POINT. IT IS ESSENTIAL TO THE INSTALLATION PROCESS THAT THE FIRST PANEL BE POSITIONED CORRECTLY, AND INSTALLED SQUARE AND PLUMB. CAUTION SHOULD BE USED AT AREAS OF DISCONTINUITY (EXPANSION JOINTS, ANCHOR PENETRATION POINTS.). AT NO POINT CAN SUB-FRAMING EXTEND OVER/ACROSS EXPANSION JOINTS. DISSIMILAR LOAD BEARING WALL ASSEMBLIES WILL REQUIRE A BREAK IN THE SUB-FRAMING. SUB-FRAMING COMPONENTS SHOULD BE INSTALLED HORIZONTALLY AND THE INSTALLER MUST ALLOW FOR INDEPENDENT THERMAL EXPANSION AND CONTRACTION. LAY RAILS SECTIONS TOGETHER TO ACHIEVE THE DESIRED LENGTH OF THE RAIL CHANNEL, MAKING SURE TO ALIGN ALL SUB-FRAMING JOINTS WITH THE PANEL JOINTS. LEAVE AT LEAST 1/4 INCH BETWEEN CHANNEL SECTIONS TO ACCOMMODATE FOR BUILDING MOVEMENT. (SOME INSTALLATIONS MAY REQUIRE ADDITIONAL PRECAUTIONS FOR THERMAL MOVEMENT. PLEASE CHECK YOUR PROJECT SPECIFICATION OR CONTACT US DIRECTLY FOR ASSISTANCE.)



4- MEASURE PANEL SPACING AND PLACE SUBSEQUENT PANELS IN A ROW PER THE SHOP DRAWINGS. INSTALLATION FOR PANELS USING THE ES-400 SYSTEM MAY BEGIN AT ANY POINT, THE ES-500 SYSTEM MUST BE INSTALLED FROM THE BOTTOM ROW UPWARDS. IN THE ES-500 SYSTEM, THERE MUST BE A REVEAL OF 1-1/4" AT THE TOP OF THE WALL TO PERMIT INSTALLATION OF THE LAST ROW OF PANELS.



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Title: <b>Joint rail (Horiz &amp; Vert)</b>		View: <b>Section</b>	Date: <b>4/17/14</b>	 <small>Wall Panel Systems, Inc.          421 Business Center Court,          Redlands, CA, 92373          Tel: 909-307-8888          Fax: 909-307-8887          Web: www.wallpanelsystems.net</small>
Detail: <b>A.1</b>	System Type: <b>Exterior System</b>	Scale: <b>Full</b>	Drawn By: <b>WPS, Inc.</b>	

## ALIGNMENT & CONSISTENCY

AFTER THE FIRST PANEL IS INSTALLED, CONTINUE WITH ADJACENT PANELS IN THE SAME MANNER ALONG THE CONTROL LINE(S). VERIFY THE PANELS' SPACING OFTEN. WPS RECOMMENDS USING THE PROPER SIZED SHIMS BETWEEN PANEL FACES TO ENSURE ACCURATE SPACING BETWEEN PANELS. IF PANELS ARE INSTALLED WITH INCORRECT SPACING, THEY WILL LIKELY NEED TO BE RE-ADJUSTED TO ALIGN PROPERLY.

## PANEL CLIPS

WHEN INSTALLING THE PANEL WITH CLIPS, VERIFY THEY ARE IN LINE WITH THE ES-801 & ES-820 RAILS SUB-FRAMES FRAMING. THE CLIPS ATTACH TO THE BACK OF EACH PANEL AND CLIP SPACING MAY VARY DEPENDING ON YOUR PROJECT'S DESIGN LAYOUT AND ENGINEERING REQUIREMENTS. LEAVE THE PROTECTIVE FILM IN PLACE UNTIL THE ADJACENT PANELS ARE INSTALLED, HOWEVER, NOTE THAT EXPOSURE TO SUNLIGHT IS NOT RECOMMENDED AS THE PROTECTIVE FILM MAY CAUSE COLOR VARIATION.

## FASTENING

ALL PANELS WILL BE FABRICATED AND PREDRILLED WITH THE PROPER SIZE DIAMETERS REQUIRED FOR EACH PANEL TYPE. FASTEN PANEL TO THE ES-801 & ES-820 SUB-FRAME FIRMLY USING THE FASTENERS PROVIDED BY WPS, TIGHTENING THE FASTENERS NO MORE THAN A HALF TURN BEYOND SNUG. BE CAREFUL NOT TO OVER-TORQUE THE FASTENERS, AS THIS MAY RESULT IN THE FASTENER SHEARING AND CAN STRIP THE FRAMING. ALWAYS MAKE SURE FASTENER SIZE AND SPACING IS IN ACCORDANCE WITH THE ENGINEERING REQUIREMENTS FOR THE SPECIFIC PROJECT.

## PANEL SEQUENCING

DUE TO THE NATURE OF MOST PANEL SYSTEMS, CERTAIN PANELS ARE INSTALLED PRIOR TO OTHERS; THIS IS PARTICULARLY TRUE AROUND DOORS, WINDOWS, PENETRATIONS, AND OTHER OPENINGS. DEVELOP A WRITTEN PLAN OR SKETCH THAT TAKES PANEL INSTALLATION SEQUENCE INTO CONSIDERATION, AND PERIODICALLY EVALUATE THE PANEL PLACEMENT PLAN TO AVOID UNFORESEEN CIRCUMSTANCES.

## PANEL PROTECTIVE FILM

IT IS IMPORTANT TO REMOVE THE PROTECTIVE FILM FOR EACH SECTION OF ADJACENT PANELS IMMEDIATELY AFTER THE INSTALLATION IS COMPLETE FOR THAT SECTION. EXTRA ATTENTION IS REQUIRED IN AREAS RECEIVING A LARGE AMOUNT OF SUNLIGHT. TOO MUCH EXPOSURE, MAY CAUSE PANEL COLOR VARIATION. IN ADDITION, REMOVING THE FILM REGULARLY ALLOWS FOR FURTHER INSPECTION OF THE PANELS CONDITION BEFORE MOVING TO THE NEXT SECTION.



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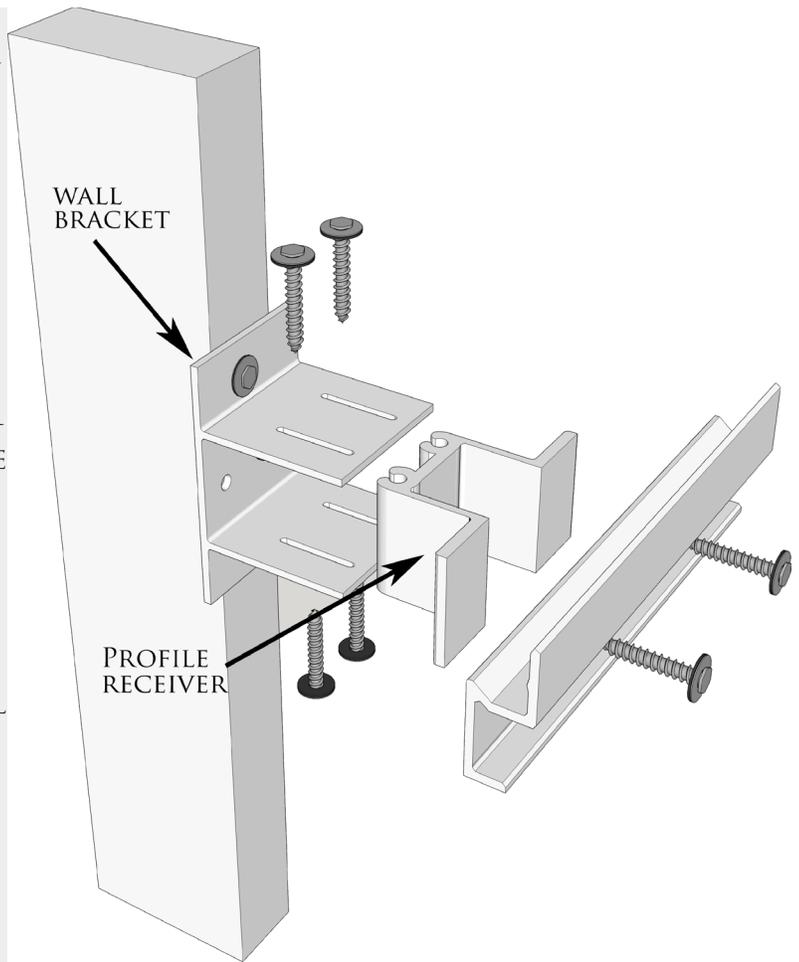
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## USING THE ADJUSTABLE MOUNTING BRACKET

WHEN A STANDOFF IS REQUIRED WPS WILL COORDINATE AND SEND THE PROPER NUMBER OF ADJUSTABLE MOUNTING BRACKETS. THESE BRACKETS CAN FLEX FROM 2-3/4" TO 4." THE WALL BRACKET MUST BE ATTACHED TO A STRUCTURALLY SUPPORTIVE SUBSTRATE. DO NOT ATTACH THE BRACKET TO INSULATION OR SHEATHING UNLESS PRESCRIBED TO DO SO BY THE PROJECTS STRUCTURAL ENGINEER.

TO INSTALL THIS PART, BEGIN BY PLACING EACH WALL BRACKET IN THE APPROPRIATE LOCATION PER THE SHOP DRAWINGS. THERE WILL BE ONE BRACKET AT EACH CORNER OF EACH PANEL. ONCE THE WALL BRACKET IS CORRECTLY ORIENTED AND LOCATED, INSTALL THE PROFILE RECEIVER. USE A LASER TO ALIGN THE FACES OF EACH BRACKET. USE THE WIDEST ALUMINUM TRIM AS A STRAIGHT EDGE TO HELP LEVEL ALL BRACKETS.

ONCE THE BRACKETS HAVE BEEN INSTALLED, ATTACH THE ALUMINUM EXTRUSIONS PER THE SHOP DRAWINGS TO THE FACE OF THE BRACKET.



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