

# ProTek Systems, Inc.

PROTEK SYSTEMS, INC.  
2799 N.W. 2ND AVE  
BOCA RATON, FL 33431  
TELEPHONE: 800-598-2153  
FAX: 561-395-4771  
SALES@PROTEKMAIL.COM

## WCUL-400 INTERLOCKING WALL PANEL SYSTEM INSTALLATION GUIDELINES

### PLEASE READ DISCLAIMERS:

PLEASE READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION!!  
THESE GUIDELINES ARE PROVIDED IN GOOD FAITH TO HELP PREVENT ANY PROBLEMS CAUSED BY ERRORS IN INSTALLATION. THE MANUFACTURER OF THIS PRODUCT SHALL NOT BE HELD RESPONSIBLE FOR INSTALLATION ACTIONS TAKEN OR NOT TAKEN. THERE ARE MANY DETAILS OF INSTALLATION THAT ARE ASSUMED TO BE GENERAL CONSTRUCTION KNOWLEDGE TO EXPERIENCED INSTALLERS; WHICH ARE NOT INCLUDED IN THESE INSTRUCTIONS. THESE INSTALLATION GUIDELINES ARE INTENDED TO BE STRICTLY RECOMMENDATIONS AND ARE NOT TO SERVE AS A STEP-BY-STEP, FAIL-SAFE INSTALLATION CHECKLIST. SELECTION OF AN EXPERIENCED INSTALLER IS THE SOLE RESPONSIBILITY OF THE PROJECT OWNER AND ARCHITECT.

PROTEK SYSTEMS, INC. DOES NOT ACCEPT ANY RESPONSIBILITY FOR JOB FAILURE RESULTING FROM OR ASSOCIATED WITH IMPROPER SITE ENVIRONMENTAL CONDITIONS.

### TOOLS NEEDED:

- CIRCULAR SAW WITH FINE TOOTH CARBIDE TIPPED SAW BLADE
- POWER DRILL WITH CARBIDE BITS
- TROWEL RECOMMENDED BY ADHESIVE MANUFACTURER
- TRIM CUTTER

### MATERIALS NEEDED:

- WCUL-400 INTERLOCKING WALL PANELS
- MECHANICAL FASTENERS
- LATEX-BASED HEAVY DUTY CONSTRUCTION ADHESIVE
- TRIM MOLDING
- SILICONE SEALANT (FOR INSTALLATION IN HIGH MOISTURE AREAS)
- COLOR MATCHING CAULK (OPTIONAL)
- NON-ABRASIVE CLEANER, SOAP AND WATER, MINERAL SPIRITS, FOR USE IN CLEAN-UP

### PRIOR TO INSTALLATION:

PANELS MUST BE ACCLIMATED IN TEMPERATURE AND HUMIDITY CONDITIONS OF THE INSTALLATION AREA AT LEAST 24 HOURS PRIOR TO INSTALLATION. SEE DISCLAIMER.

### DISCLAIMER:

PROTEK SYSTEMS, INC. IS NOT RESPONSIBLE FOR PROBLEMS RELATED TO EXPANSION DUE TO TEMPERATURE FLUCTUATIONS. IF WIDE TEMPERATURE FLUCTUATIONS EXIST IN THE AREA OF PANEL INSTALLATION, OVERSIZED HOLES FOR SCREWS ARE RECOMMENDED. ALSO, ALLOW EXPANSIONS AND CONTRACTION GAPS BETWEEN PANEL ENDS, MOLDING, AND PERIMETER ENDS.

REV. 10/15/2012

CUSTOMER:	PROJECT:	<b>WCUL-400</b>
ARCHITECT:	SALES REP:	

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### CEILING PRE-INSTALLATION PLANNING:

CEILINGS SHOULD BE INSTALLED PRIOR TO WALLS. PANELS SHOULD RUN 90 DEGREES TO THE CEILING TRUSSES OR FURRING STRIPS.

**DO NOT REMOVE** PROTECTIVE FILM UNTIL AFTER INSTALLATION.

### INSTALLATION STEPS METHOD:

FIRST, YOU MAY USE EITHER AN INSIDE CORNER OR END CAP TRIM AROUND THE PERIMETER OF THE CEILING. END CAPS CAN BE USED IF YOU ARE ONLY INSTALLING THE CEILING PANELS AND SHOULD BE INSTALLED AROUND THE PERIMETER OF THE CEILING PRIOR TO CEILING INSTALLATION.

IF INSIDE CORNERS ARE TO BE USED, IT CAN BE INSTALLED AROUND THE CEILING PERIMETER, BEFORE OR AFTER THE CEILING PANELS ARE INSTALLED. INSTALLED PRIOR TO CEILING INSTALLATION WITH THE WIDEST PART OF THE TRIM ATTACHED TO THE CEILING AND OPENING TO THE CENTER OF THE CEILING, BUTTING UP TO EXISTING SIDE WALLS. IF INSTALLING NEW WALL PANELS, INSIDE CORNERS ARE INSTALLED TIGHT TO THE BOTTOM OF THE CEILING PANELS WITH SCREWS INTO THE SIDE WALL AND THE  $\frac{1}{2}$ " OPENING FACING DOWN TO THE FLOOR, CREATING THE TOP CHANNEL FOR NEW WALL PANELS.

CUT PANELS  $\frac{1}{2}$ " SHORT OF ACTUAL MEASUREMENTS TO ALLOW FOR PANEL MOVEMENT, INSTALLING THE PANELS  $\frac{1}{4}$ " IN FROM EACH WALL. BEGIN BY TAKING THE FIRST PANEL AND PLACING IT AT ONE END OF THE CEILING WITH THE TONGUE FACING THE WALL AND THE NAILING FIN FACING AWAY FROM THE WALL. ADJUST THE PANEL SO IT IS RUNNING PARALLEL WITH THE OUTSIDE WALL. FASTEN THE PANEL THROUGH THE NAILING FIN, AT EACH END RAFTER, EVERY 16-24", WITH THE RECOMMENDED FASTENERS. FOR THE FIRST PANEL ONLY, FASTEN THE TONGUE SIDE OF THE PANEL ALONG THE WALL WITH THE SAME TYPE OF SCREW, KEEPING THE SCREW WITHIN 1" FROM THE WALL SO THEY ARE COVERED WITH THE PERIMETER TRIM.

NOW THAT THE FIRST PANEL IS UP AND FASTENED, YOU CAN INSTALL THE REMAINING CEILING PANELS. PLACE THE TONGUE OF THE SECOND PANEL THROUGH THE NAILING FIN AT EVERY RAFTER, JUST LIKE THE FIRST PANEL. NOW, STEP BACK AND CHECK OUT HOW IT LOOKS MAKING SURE YOU ARE RUNNING SQUARE WITH THE OUTSIDE WALL, AND NOT AT AN ANGLE. THIS COULD BE A PROBLEM WHEN YOU COME TO THE OTHER END OF THE BUILDING IF NOT CORRECTED.

PROCEED AND INSTALL THE REMAINING CEILING PANELS AS DESCRIBED ABOVE. WHEN INSTALLING THE LAST CEILING PANEL, YOU MAY HAVE TO RIP IT DOWN TO FIT. MEASURE YOUR REMAINING SPACE, BUMPING YOUR TAPE AGAINST THE WALL AND DREADING THE AT THE PANEL EDGE, NOT THE NAILING FIN EDGE. RIP THE PANEL A 1.4" NARROWER THAN YOUR MEASUREMENT. SLIDE THE LAST PANEL INTO THE WALL. AGAIN, KEEP THE SCREW WITHIN 1" FROM THE WALL SO THE TRIM COVERS IT. WHEN CEILING IS COMPLETE REMOVE THE FILM.

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## WCUL-400 INTERLOCKING WALL PANEL SYSTEM INSTALLATION GUIDELINES

### WALL PRE-INSTALLATION PLANNING:

CEILINGS SHOULD BE INSTALLED PRIOR TO WALLS. DOOR AND WINDOW TRIM BOARDS CAN BE INSTALLED BEFORE OR AFTER PANELS.

### VERTICAL WALL INSTALLATION:

START IN ONE CORNER AND INSTALL THE FIRST PIECE OF END CAP AT THE FLOOR, WITH THE OPEN END UP SO IT CAN RECEIVE THE WALL PANEL. RUN A THIN BEAD OF SILICONE CAULK ALONG THE TOP BACK LONG SIDE OF THE J-TRIM TO PROVIDE A WATERPROOF SEAL, AND THEN FASTEN WITH SCREWS EVERY 16-24" ALONG THE TOP AND BOTTOM OF THE WALL. YOU CAN SCREW THROUGH THE NAILING FIN OF THE PANEL AND THE END CAP TRIM, ATTACHING BOTH TO THE WALL WITH THE ONE FASTENER AS YOU INSTALL THE PANELS.

TAKE THE FIRST WALL PANEL AND CUT  $\frac{1}{2}$ " SHORTER THAN THE ACTUAL WALL HEIGHT. WHEN INSTALLING THE PANEL, IT IS NECESSARY TO APPLY AN AVERAGE AMOUNT OF CONSTRUCTION ADHESIVE TO THE BACK CENTER OF THE PANEL IN A SERPENTINE MOTION FROM THE TOP TO THE BOTTOM. REMEMBER TO APPLY PRESSURE TO THE PANEL TO SET THE ADHESIVE.

PLACE THE PANEL IN THE CORNER, TONGUE FIRST AND RAISE UP INTO THE CEILING TRIM INSIDE CORNER OR END CAP (IF NO CEILING INSTALLED). AND THEN BEND SLIGHTLY IN THE MIDDLE SO YOU CAN GET THE PANEL INTO THE END CAP TRIM AT THE FLOOR. PUSH PANEL IN WITH EVEN PRESSURE TO SET ADHESIVE.

LEVEL THE FIRST PANEL, AGAIN RAISE SLIGHTLY OFF THE FLOOR ABOUT  $\frac{1}{4}$ " AND FASTEN PANEL TO THE WALL THROUGH THE NAILING FIN. FASTEN EVERY 16-24" ALONG THE NAILING FIN. YOU THEN MUST FASTEN THE TONGUE SIDE NEAR THE CORNER WITH SCREWS. KEEP FASTENERS WITHIN 1" OF THE CORNER, SO THE CORNER TRIM COVERS THEM.

ONCE THE FIRST PANEL IS IN PLACE AND LEVEL YOU MAY PROCEED TO INSTALL THE REMAINING PANELS BY REPEATING THE SAME PROCESS YOU USED TO INSTALL THE FIRST PANEL. REMEMBER TO ADD END CAP TRIM ALONG THE FLOOR AND CEILING AS YOU GO AROUND THE ROOM. TO AID IN INSTALLING THE PANELS YOU MAY USE A 1FT LONG 2X4 AGAINST THE NAILING FIN TO HELP SLIDE THE PANELS TOGETHER.

AT DOOR AND WINDOW OPENINGS INSTALL END CAP OR OUTSIDE CORNER TRIM PRIOR TO INSTALLING THE WALL PANELS. THIS MAKES A NICE CLEAN BORDER AROUND YOUR WINDOWS AND DOORS. INSTALL INSIDE CORNER TRIM AT EACH CORNER ONCE YOU HAVE THE ADJACENT WALL COVERED. YOU MAY WANT TO PLACE A SMALL BEAD OF CLEAR SILICONE CAULK ON THE BACKSIDE OF THE CORNER TRIM BEFORE YOU INSTALL TO MAKE A WATER TIGHT CORNER.

WHEN INSTALLING THE LAST PANEL TO THE WALL YOU MAY HAVE TO RIP IT DOWN TO FIT. MEASURE THE REMAINING SPACE, BUMPING YOUR TAPE AGAINST THE WALL OR BACK INSIDE EDGE OF THE INSTALLED TRIM AND READING THE DISTANCE AT THE PANEL EDGE, NOT THE NAILING FIN EDGE. RIP THE PANEL A  $\frac{1}{4}$ " NARROWER THAN YOUR MEASUREMENT. ALONG THE GROOVED EDGE OF THE INSTALLED PANEL, APPLY A SMALL BEAD OF CLEAR SILICONE CAULK. IT WILL HELP TO LOCK THE PANELS IN PLACE. ALSO APPLY A BEAD OF CONSTRUCTION ADHESIVE TO THE BACK OF THE INSTALLED PANEL, ABOUT 2-3" FROM THE CORNER. SLIDE THE LAST PANEL INTO THE CORNER OR TRIM; THEN BACK INTO THE INSTALLED PANEL. APPLY PRESSURE TO THE PANEL TO SET THE ADHESIVE. YOU MAY ALSO FASTEN WITH A SCREW ALONG THE CUT EDGE WITHIN 1" OF THE CORNER; BUT ONLY IF THE TRIM WILL COVER IT LATER.

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### HORIZONTAL WALL INSTALLATION:

REVIEW VERTICAL PANEL INSTALLATION PRIOR TO INSTALLING PANELS HORIZONTALLY. AFTER THE TRIM IS INSTALLED, START HANGING THE WALL PANELS FROM THE TOP DOWN TO THE FLOOR. SO, START AT THE CEILING WITH THE FIRST PANEL AND INSTALL WITH THE NAILING FIN PORTION TO THE FLOOR, GROOVE DOWN. THIS WAY, NO WATER WILL LAY IN THE GROOVE.

### CUTTING:

CUT THROUGH THE PANELS SLOWLY. DO NOT RUSH. USE A POWERED MITER SAW WITH FINE TOOTH BLADE, TABLE SAW WITH FINE TOOTH PLYWOOD BLADE OR 80 TOOTH CARBIDE BLADE, OR FIXED BLADE UTILITY KNIFE WITH A STRAIGHT EDGE TO GUIDE, SCORING 4-6 TIMES WITH A SHARP KNIFE TO CUT THROUGH THE MATERIAL. COLDER TEMPERATURES MAY CAUSE THE PANEL TO BE MORE DIFFICULT TO CUT. DON'T RUSH.

### MOLDING:

THE USE OF SILICONE SEALANT WITH PVC PANELS IS RECOMMENDED TO ACHIEVE A MOISTURE RESISTANT INSTALLATION. CUT MOLDINGS TO SIZE AND PLACE SILICONE SEALANT INTO CHANNEL OF MOLDINGS DURING INSTALLATION. FOLLOW SILICONE SEALANT MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.

### FASTENERS:

IN HIGH MOISTURE AREAS OR CERTAIN SITUATIONS, PVC PANELS SHOULD BE INSTALLED WITH NON-CORRODING FASTENERS. FASTENERS SHOULD BE INSTALLED TO FIT SNUG, BUT SHOULD NOT BE OVER TIGHTENED. CAREFULLY SELECT THE PROPER LENGTH AND WIDTH OF RIVET FASTENER FOR THE COVERED PROJECT SUBSTRATE.

### FINISH WORK:

REMOVE ALL ADHESIVE RESIDUES, CLEANING PANELS THOROUGHLY WITH WARM WATER, A NON-ABRASIVE DETERGENT AND CLOTH. FOR CLEANING WITH SOLVENT BASED ADHESIVE, USE MINERAL SPIRITS TO REMOVE RESIDUE.

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