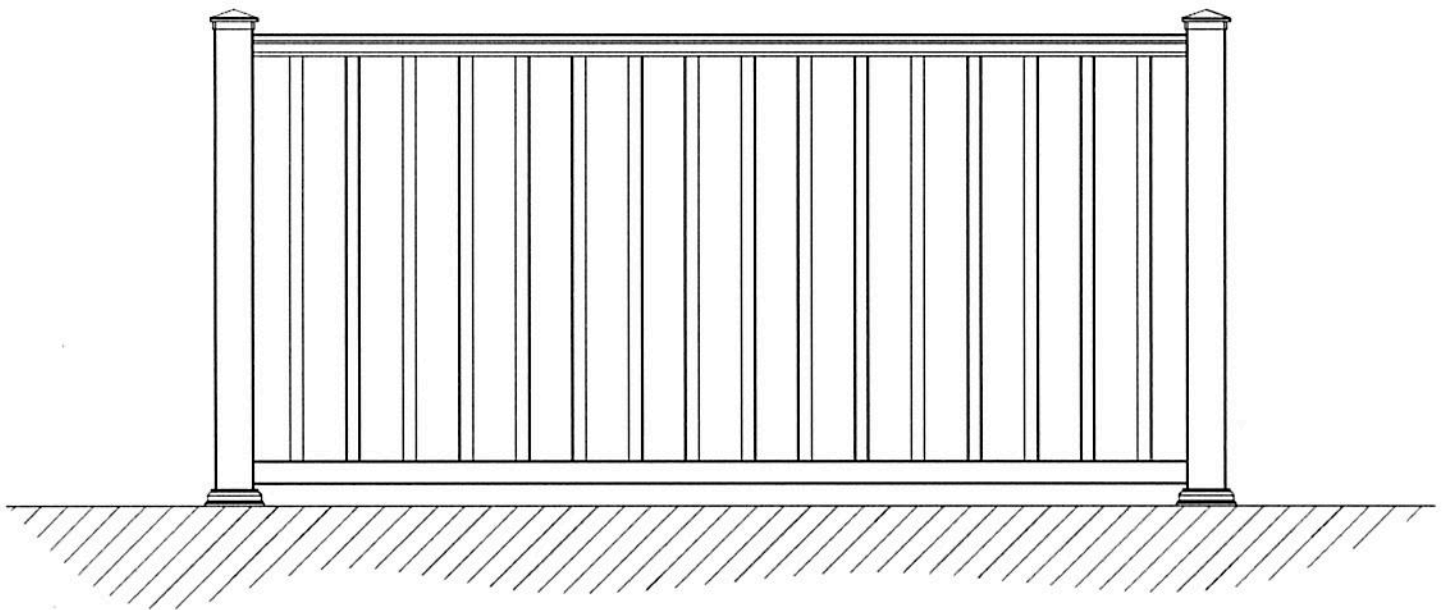


VISION™
OUTDOOR PRODUCTS LIMITED



**INSTALLATION & ASSEMBLY
MANUAL**

JUNE 2013

Thank you for choosing Vision Outdoor Products. Please read this Owner's Manual completely before assembling your new deck rail. Retain manual and your dated sale receipt for future reference and warranty claims.

INSTALLATION / ASSEMBLY INFORMATION

As with any construction project, use caution and safety when assembling your new railing. Vision Outdoor Products Limited cannot be responsible for any damages or injuries resulting from the incorrect use of any tools, equipment or the mishandling of any of the railing components.

- Use proper lifting procedures when handling the packages.
- Take care when handling the individual components and wear gloves to avoid cuts or scrapes.
- Follow proper operating procedures for any tools, ladders, ect. used when assembling your rail.
- Always protect your eyes. Wear safety glasses when assembling the railing and when using power tools.
- Do not assemble the railing if parts are missing. An assembled railing that has parts missing or the wrong parts installed may cause serious damage.
- The railing must be anchored properly to either a wood substructure or a concrete pad. See the following pages for recommended wood and concrete fasteners. Lags screws and/or concrete anchors are not included.
- Contractor or Owner to supply hardware as required to install 3 ½" X 3 ½" newel post's and railing sections.

THIS IS A MAINTENANCE FREE PRODUCT MADE OF WEATHER ABLE VINYL AND AS SUCH DOES NOT NEED TO BE PAINTED. PAINTING OF THE PRODUCT WILL VOID THE WARRANTY. IF A PAINTABLE RAILING PRODUCT IS NEEDED PLEASE CONTACT VISION OUTDOOR PRODUCT LIMITED OR YOUR LOCAL DISTRIBUTOR.

ATTENTION - Before you assemble your railing:

PLEASE TAKE A COMPLETE INVENTORY OF ALL PARTS USING THE LIST AND PART IDENTIFICATION GUIDE PROVIDED. DO NOT ATTEMPT TO ASSEMBLE THE RAILING IF PARTS ARE MISSING OR DAMAGED. ATTEMPTING TO DO SO MAY CAUSE THE PRODUCT TO FAIL AND VOID WARRANTY.

FOR ASSISTANCE PLEASE CALL:

VISION OUTDOOR PRODUCTS LIMITED @ 1 (877) 550-9971

TOOLS REQUIRED FOR ASSEMBLY:

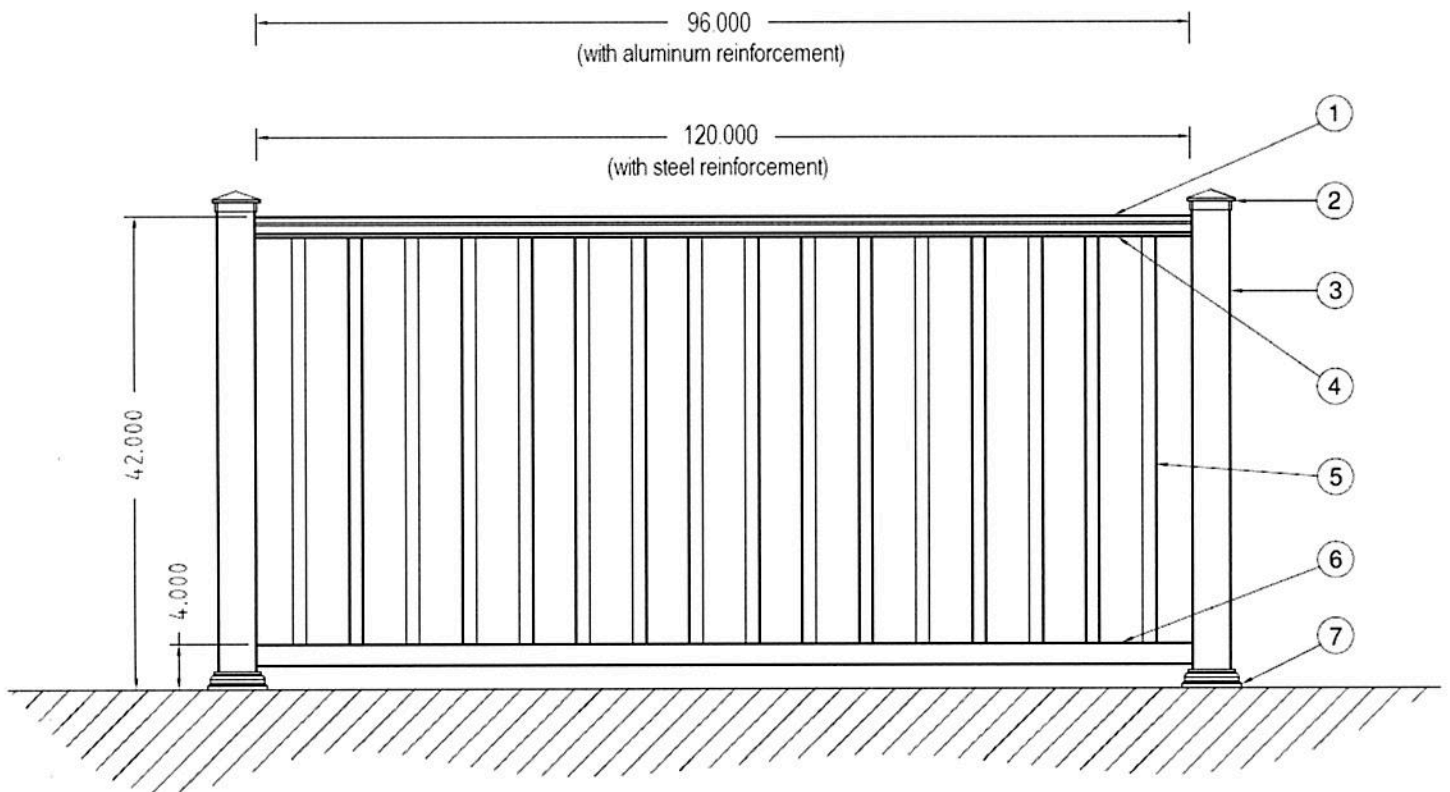
- POWER DRILL
- $\frac{3}{8}$ " X 5" CONCRETE BIT FOR $\frac{3}{8}$ " X 4" CONCRETE ANCHOR (CONCRETE MOUNTED APPLICATION)
- $\frac{1}{8}$ " X 6" WOOD BIT FOR $\frac{3}{8}$ " X 6" WOOD LAG SCREW (WOOD MOUNTED APPLICATION)
- MEASURING TAPE- MINIMUM 16' (5CM) RECOMMENDED
- SAFETY GLASSES AND GLOVES
- 3" LEVEL AND CARPENTERS SQUARE
- RUBBER MALLET
- HACK SAW

RAILINGS AND NEWEL POSTS MUST NOT BE INSTALLED IN A MANNER CONTRARY TO LOCAL BUILDING CODES OR THE INSTRUCTIONS THAT HAVE BEEN PROVIDED. THE VISION OUTDOOR PRODUCT SYSTEM HAS BEEN TESTED IN A CANADIAN / AMERICAN APPROVED LAB WITH A MAXIMUM SPAN OF 10' WITH STEEL REINFORCEMENT (INSIDE POST TO INSIDE POST) & 8' SPAN WITH ALUMINUM REINFORCEMENT (INSIDE POST TO INSIDE POST) AND MEET OR EXCEED STANDARD BUILDING CODES.

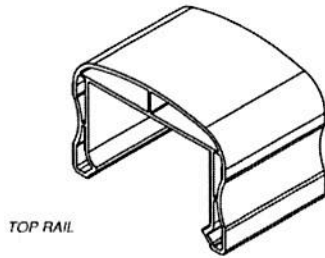
THE INSTALLER MUST UNDERSTAND THAT FAILURE TO FOLLOW THE INSTALLATION INSTRUCTIONS SET FORTH IN THIS MANUAL MAY RESULT IN DEFICIENCIES IN THE FINAL ASSEMBLY AND WILL VOID THE WARRANTY.

NO.	BILL OF MATERIALS	QTY
1	TOP RAIL	1
2	MOULDED POST CAP	2
3	POST COVER	2
4	FILLER STRIPS	2
5	SPINDLE	16
6	BOTTOM RAIL	1
7	MOULDED POST SKIRT	4

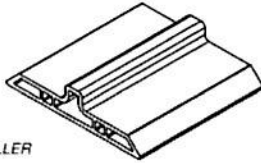
DIMENSIONS AND LAYOUT FOR RAILING SECTION



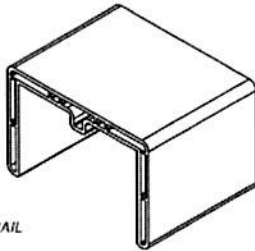
PART IDENTIFICATION FOR RAILING KITS



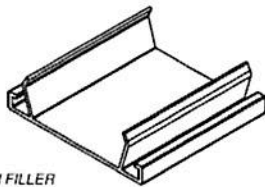
TOP RAIL



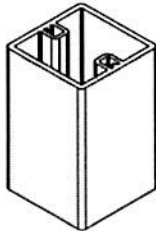
TOP FILLER



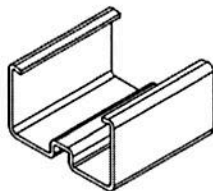
BOTTOM RAIL



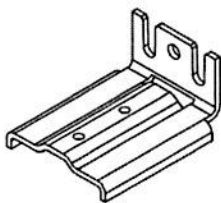
BOTTOM FILLER



1½" x 1½" BALUSTER

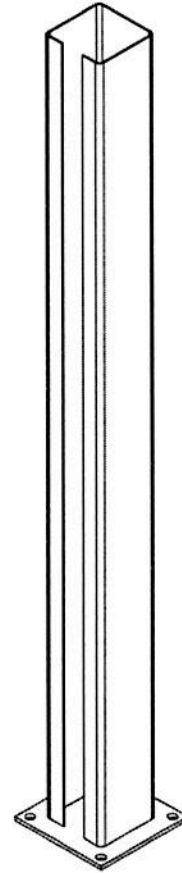


RAIL REINFORCEMENT

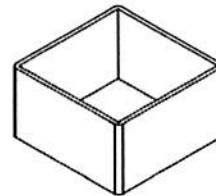


MOUNTING BRACKETS

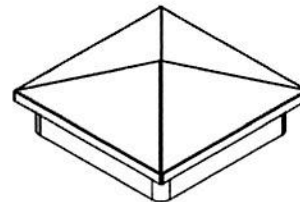
PART IDENTIFICATION FOR POST KITS



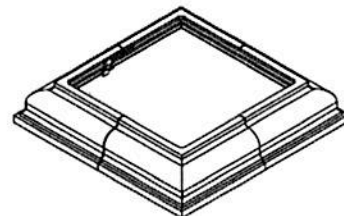
POST REINFORCEMENT



3½" x 3½" POST COVER



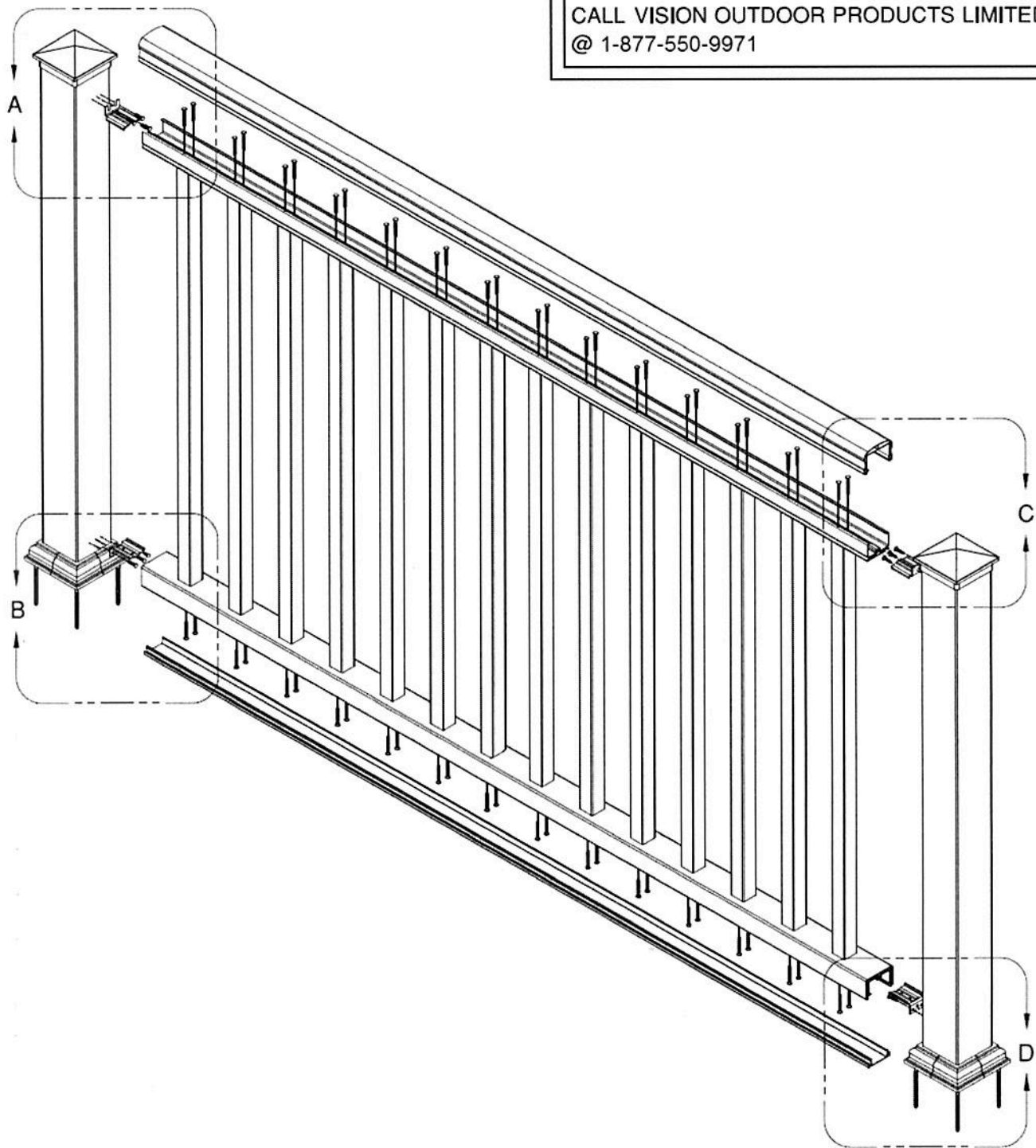
POST CAP



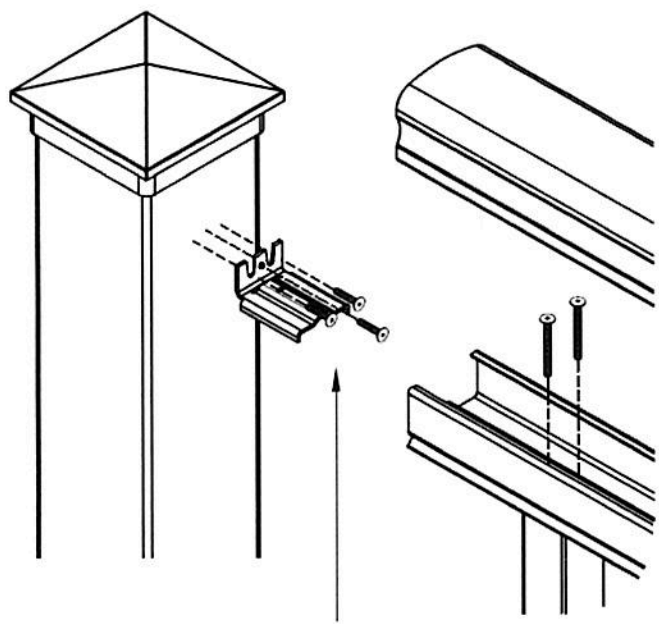
POST SKIRT

EXPLODED VIEW

PLEASE TAKE A COMPLETE INVENTORY OF ALL PARTS USING THE PARTS LIST AND PART IDENTIFICATION GUIDE PROVIDED ON PAGE 3. DO NOT ATTEMPT TO ASSEMBLE RAILING IF PARTS ARE MISSING OR DAMAGED. FOR ASSISTANCE PLEASE CALL VISION OUTDOOR PRODUCTS LIMITED @ 1-877-550-9971

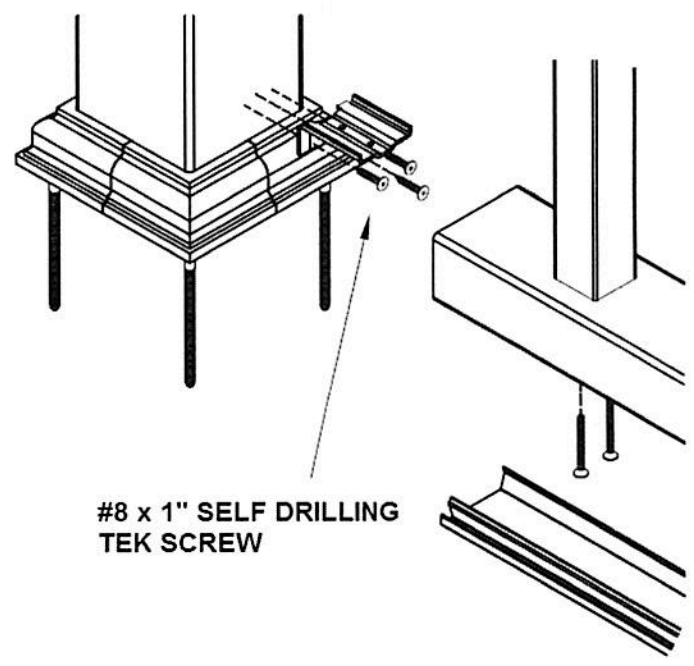


DETAIL "A"

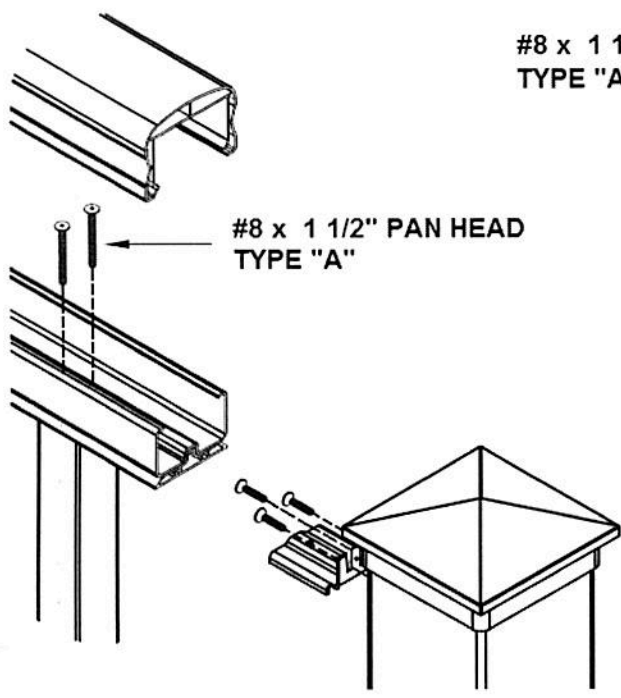


#8 x 1" SELF DRILLING
TEK SCREW

DETAIL "B"



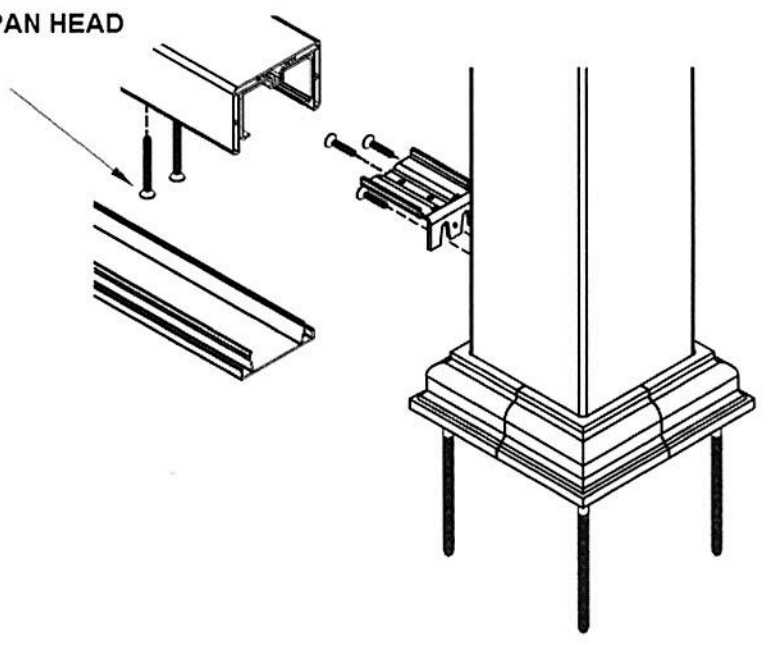
#8 x 1" SELF DRILLING
TEK SCREW



#8 x 1 1/2" PAN HEAD
TYPE "A"

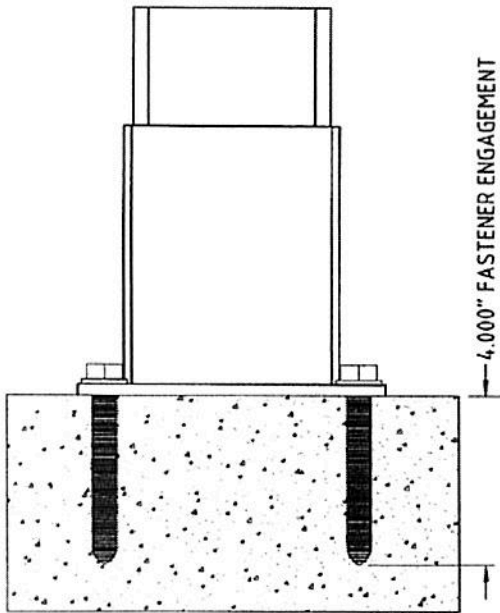
DETAIL "C"

#8 x 1 1/2" PAN HEAD
TYPE "A"



DETAIL "D"

CONCRETE PAD DETAIL AND RECOMMENDED FASTENERS FOR POST TO CONCRETE APPLICATIONS

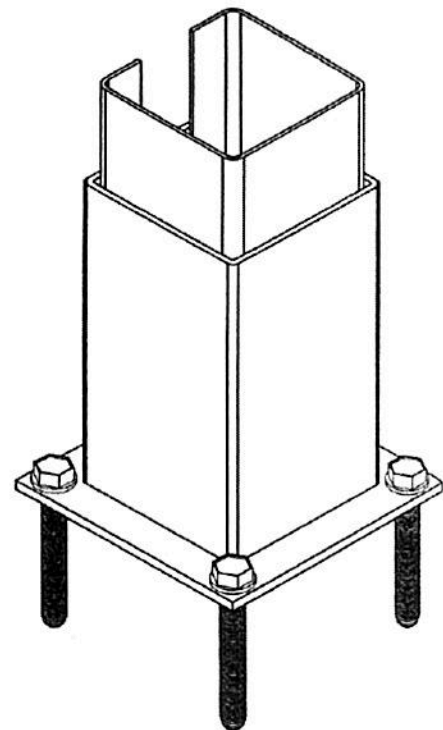


**INSTALLATION FOR NEWEL POST
ON A CONCRETE SUBSTRUCTURE**

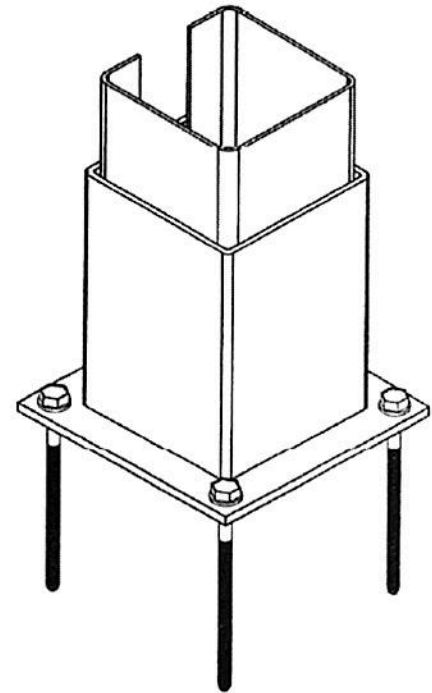
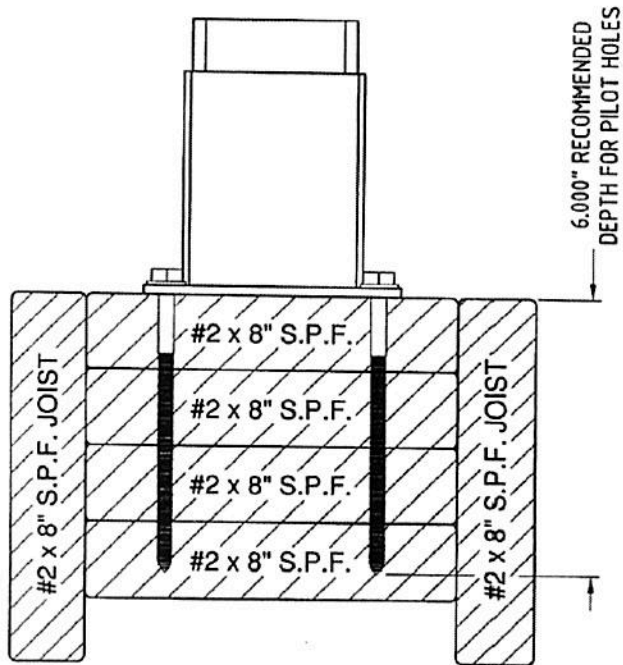
- * LOCATE CENTRE POINT FOR EACH NEWEL POST.
- * PLACE STEEL POST REINFORCEMENT OVER CENTRE POINT AND MARK ANCHOR LOCATIONS.
- * DRILL $\frac{1}{2}$ " HOLES TO ALLOW A MINIMUM INBEDMENT OF 4.00". CLEAN HOLES OF ALL CONCRETE AND DUST DEBRIS.
- * PLACE POST REINFORCEMENT OVER THE DRILLED PILOT HOLES AND THREAD IN FASTENERS WITH THE RECOMMENDED 30 l/bs OF TORQUE

CONCRETE FASTENERS

- * (4) $\frac{1}{2}$ " x 4.00" CONCRETE ANCHORS



WOOD BLOCKING DETAIL AND RECOMMENDED FASTENERS FOR POST TO WOOD APPLICATIONS



INSTALLATION FOR NEWEL POST ON A WOOD SUBSTRUCTURE

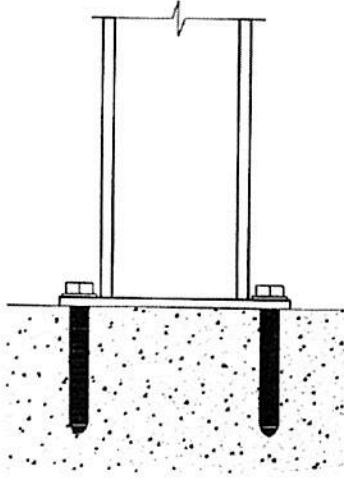
- * LOCATE CENTRE POINT FOR EACH NEWEL POST.
- * PLACE STEEL POST REINFORCEMENT OVER CENTRE POINT AND MARK ANCHOR LOCATIONS.
- * DRILL $\frac{1}{8}$ " HOLES AT LEAST 60 - 70 % OF LAG SHANKS
- * PLACE POST REINFORCEMENT OVER THE DRILLED PILOT HOLES AND THREAD IN LAGS.

WOOD LAG SCREWS

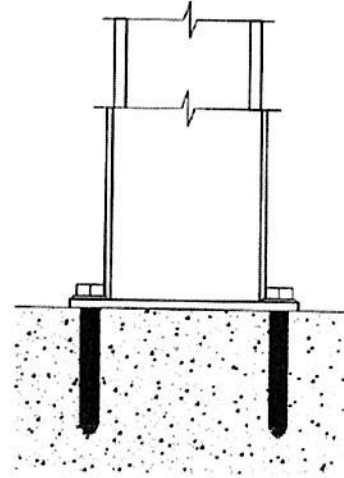
- * HOLD-TITE (HEX HEAD $\frac{3}{8}$ " x 6.00" LAG BOLTS)
- * STEEL, ZINC PLATED
- * PART # DLG38600
- * PILOT HOLE - $\frac{1}{8}$ " SHOULD BE DRILLED TO 60 - 70% OF SHANK.

INSTALLATION INSTRUCTIONS

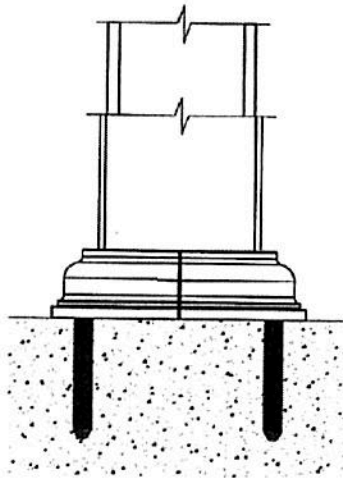
**** BEFORE INSTALLING YOUR NEW PVC RAILING MAKE SURE YOUR SUBSTRUCTURE HAS BEEN BUILT PROPERLY AND CONFORMS TO LOCAL BUILDING CODES.**



1. DEPENDING ON THE APPLICATION INSTALL NEWEL POST IN ACCORDANCE TO THE INSTRUCTIONS SET OUT ON PAGE 7 OR 8.



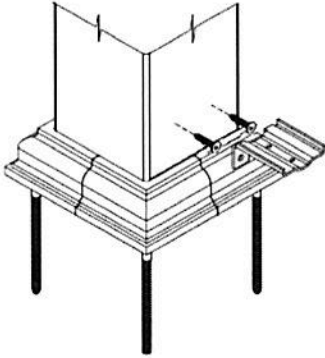
2. AFTER YOUR NEWEL POST HAS BEEN INSTALLED SLIDE THE 3 1/2" X 3 1/2" PVC COVER OVER THE STEEL POST REINFORCEMENT.



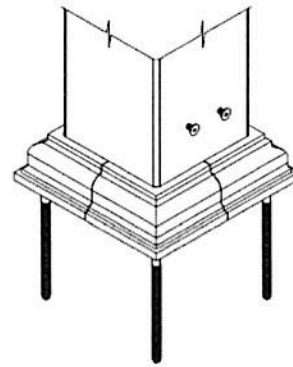
3. SLIDE THE NEW ENGLAND POST SKIRT OVER THE 3 1/2" X 3 1/2" POST COVER. MAKE SURE THE SKIRT IS SLID RIGHT DOWN AND RESTS FLAT ON THE SUBSTRUCTURE.

INSTALLATION INSTRUCTIONS

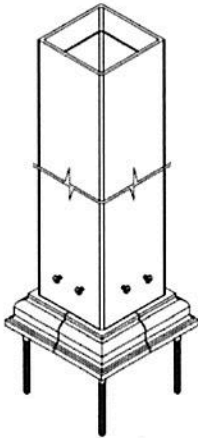
**** BEFORE INSTALLING YOUR NEW PVC RAILING MAKE SURE YOUR SUBSTRUCTURE HAS BEEN BUILT PROPERLY AND CONFORMS TO LOCAL BUILDING CODES.**



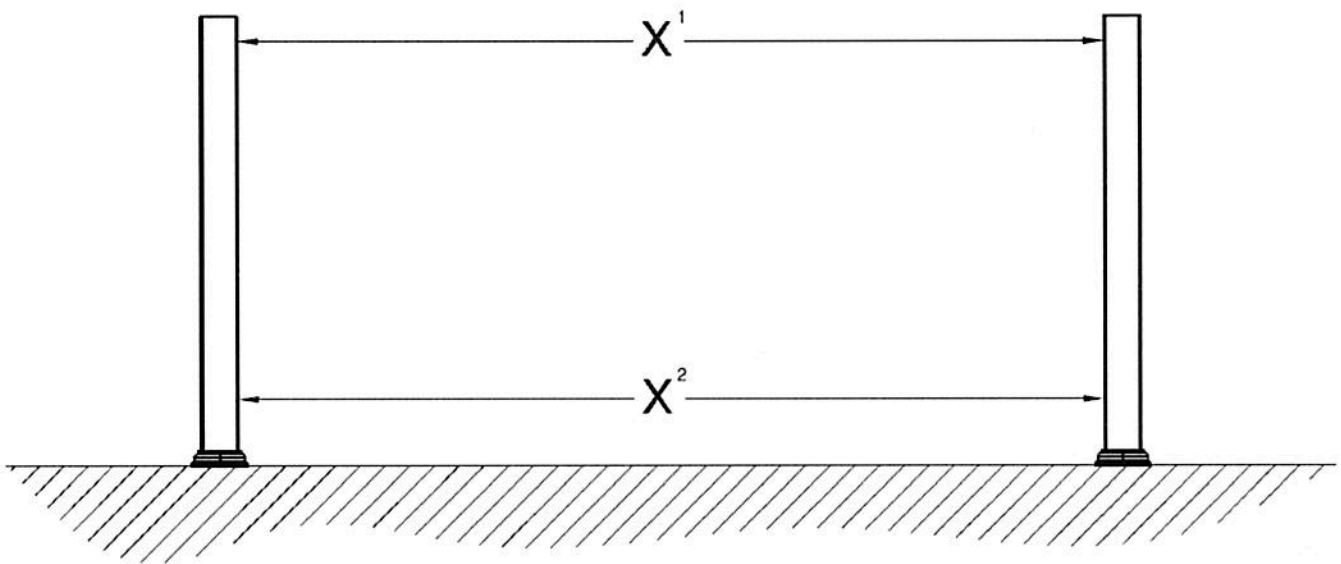
4. FASTEN THE MOUNTING "L" BRACKETS AS SHOWN BELOW USING THE FASTENERS RECOMMENDED (PAGE 6 DETAIL "A" OR "B"), THE BRACKET MUST BE MOUNTED IN THE MIDDLE OF THE PVC COVER WITH THE SCREWS LOCATED AT 2 7/8" FROM THE TOP OF THE PLATE OR 3 1/16" FROM THE FACE OF THE SUBSTRUCTURE.



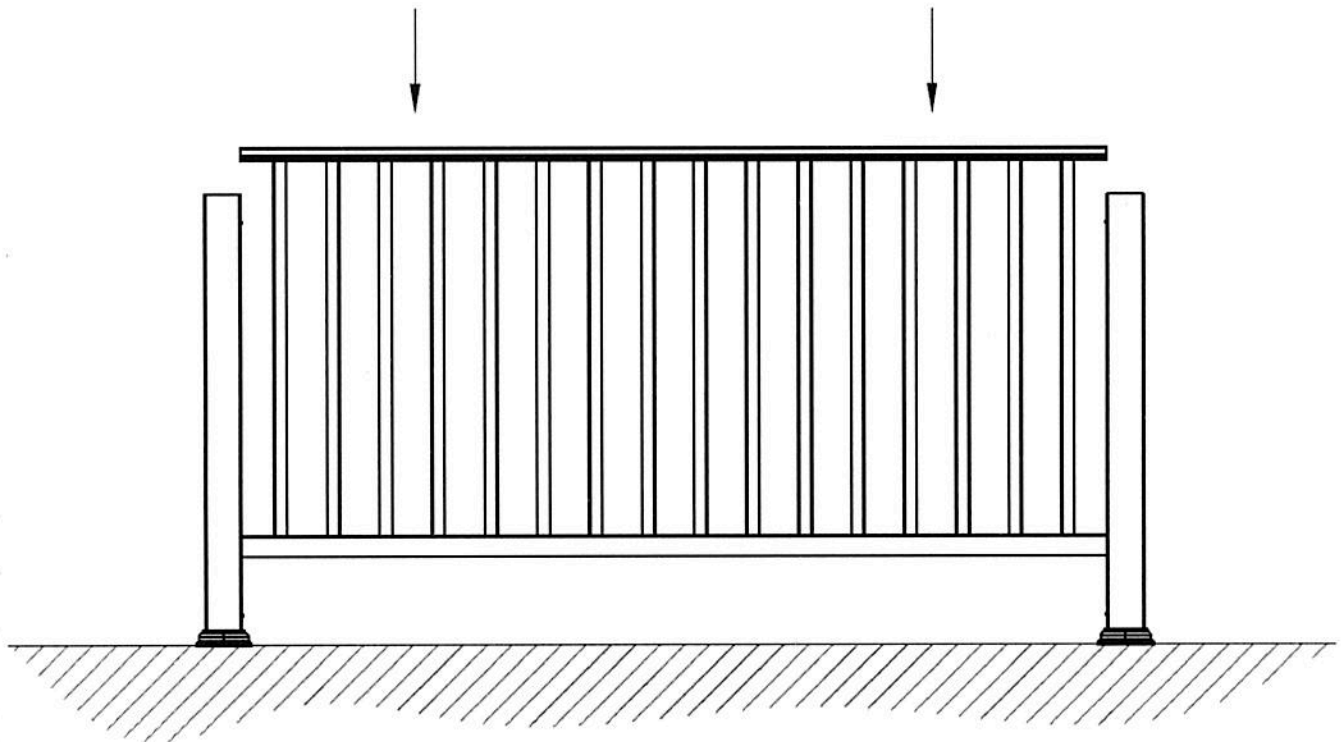
5. MANUALLY LOOSEN SCREWS ABOUT 1/4 OF A TURN REMOVING THE MOUNTING "L" BRACKETS. THIS WILL LEAVE THE FASTENERS EXPOSED SO THAT THE BRACKETS CAN BE SLID DOWN ONTO THEM AFTER THEY HAVE BEEN INSTALLED ONTO THE RAIL SECTIONS. FASTEN THE BRACKET ONTO EACH END (4) OF THE STEEL REINFORCEMENTS.



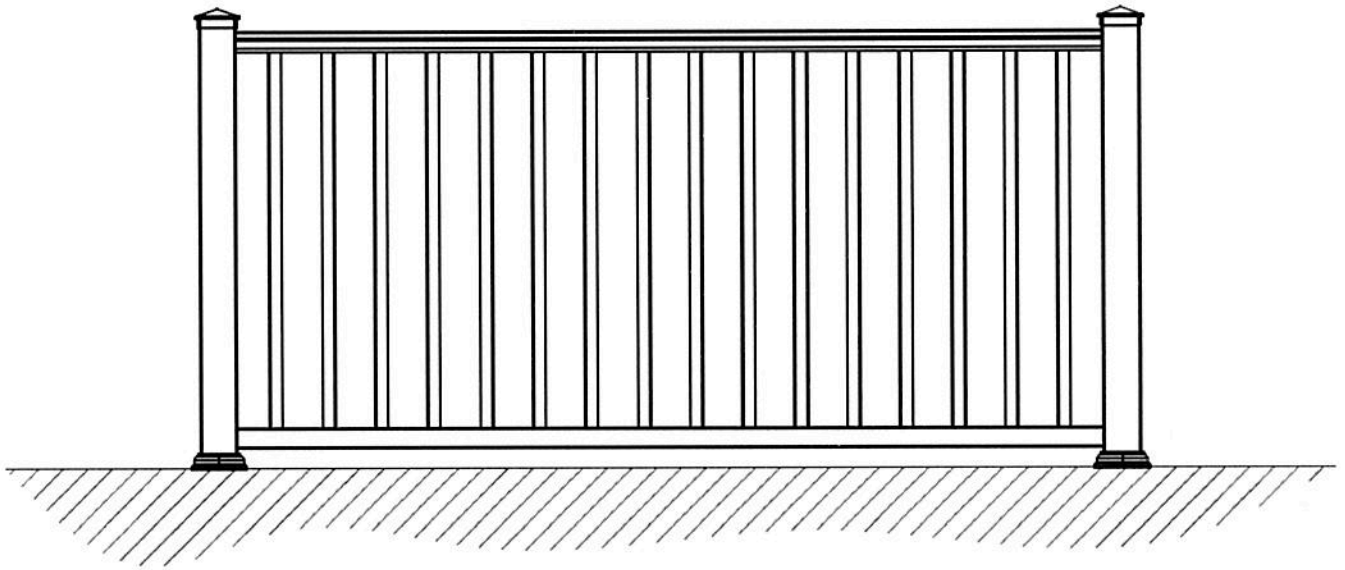
6. COMPLETED EACH POST ASSEMBLY, INCLUDING STAIR SECTIONS, AS SHOWN IN THE FOLLOWING ILLUSTRATION, IT IS IMPORTANT YOUR POST ASSEMBLIES ARE VERTICALLY AND HORIZONTALLY LEVEL BEFORE MEASURING FOR YOUR HORIZONTAL RAIL SECTIONS.



7. AFTER YOUR NEWEL POST HAVE BEEN INSTALLED YOU MUST MEASURE THE LENGTHS OF YOUR REQUIRED RAILING SECTIONS. MEASUREMENTS MUST BE TAKEN FACE TO FACE (AS INDICATED IN THE ILLUSTRATION WITH THE DIMENSION "X") AND SHOULD BE MEASURED IN BOTH TOP AND BOTTOM AREAS AS A FAIL SAFE. IF SECTIONS NEED TO BE CUT THEY SHOULD BE CUT SYMMETRICALLY, BUT CAN BE ADJUSTED ACCORDINGLY.



8. SLIDE EACH COMPLETED RAILING SECTION DOWN ONTO THE EXPOSED FASTENERS AS SHOWN ON PAGE 6 DETAILS "B" & "D".



9. UPON COMPLETING OF THE INSTALLATION OF YOUR RAILING SECTIONS SNAP THE COVERS ON (BOTH TOP AND BOTTOM) BY HAND AND USE A RUBBER Mallet TO ENSURE A GOOD SEAL. GLUE THE INSIDE LIPS OF CAPS WITH A STANDARD PVC GLUE TO PERMANENTLY PLACE ON NEWEL POSTS