



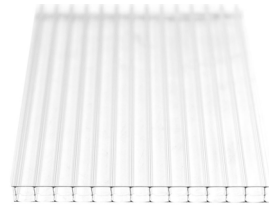
FIREFLY

ASSEMBLY MANUAL

◇ MATERIALS



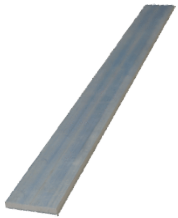
MILK CRATE



POLYCARBONATE
PANELS
(2) 2' X 2'
(1) 1' X 1'



EYE HOOK AND
BOLT



2" X 3/8" X 10'
FLAT BAR STEEL



10' LONG, 3/32"
THICK WOVEN
METAL CABLE



(4) EYE HOOKS



1.5" X 2.5" X 2'
LONG, 3/8" THICK
WALL TUBE STEEL
(ONE END CUT AT A
45° ANGLE



3' X 1.5" DIAMETER
WOOD DOWEL



(6) 2.5" WOOD LAG
SCREWS
(4) 1.5" MACHINE
BOLTS
WASHERS AND NUTS



3" X 3" 28 GAUGE
RIDGE METAL
FLASHING



16' SOLAR POWERED
LED ROPE (CAREFULLY
REMOVE PLASTIC
TUBING



(8) CABLE CRIMPS

◇ TOOLS



SLEDGEHAMMER



HAND SAW



PLIERS



DRILL



TIN SNIPS



WIRE CUTTER

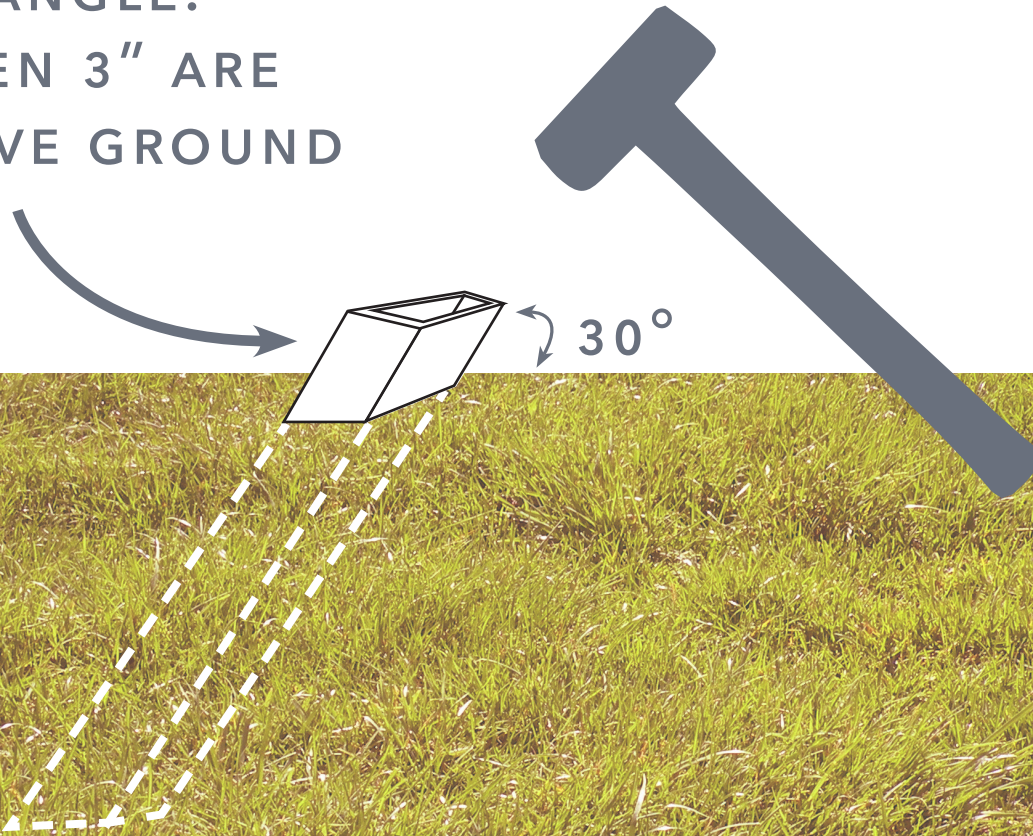
◇ PRICE LIST

- \$35.96 - POLYCARBOTATE PANEL 2'X8' AT HOME DEPOT
- \$00.00 - RECYCLED MILK CRATE
- \$29.97 - SOLAR POWERED 16' LED ROPE LIGHT AT HOME DEPOT
- \$00.00 - RECYCLED WOODEN CLOTHES ROD
- \$23.60 - METAL FLAT BAR AT METALSDEPOT.COM OR A LOCAL SUPPLIER
- \$18.01 - METAL TUBE STEEL AT METALSDEPOT.COM OR A LOCAL SUPPLIER
- \$5.92 - METAL FLASHING
- \$10.00 - FASTENERS & SPACERS
- \$10.00 - STAINLESS STEEL CABLING & FITTINGS

TOTAL = \$133.46 + LUNCH FOR THE CREW = **\$150**

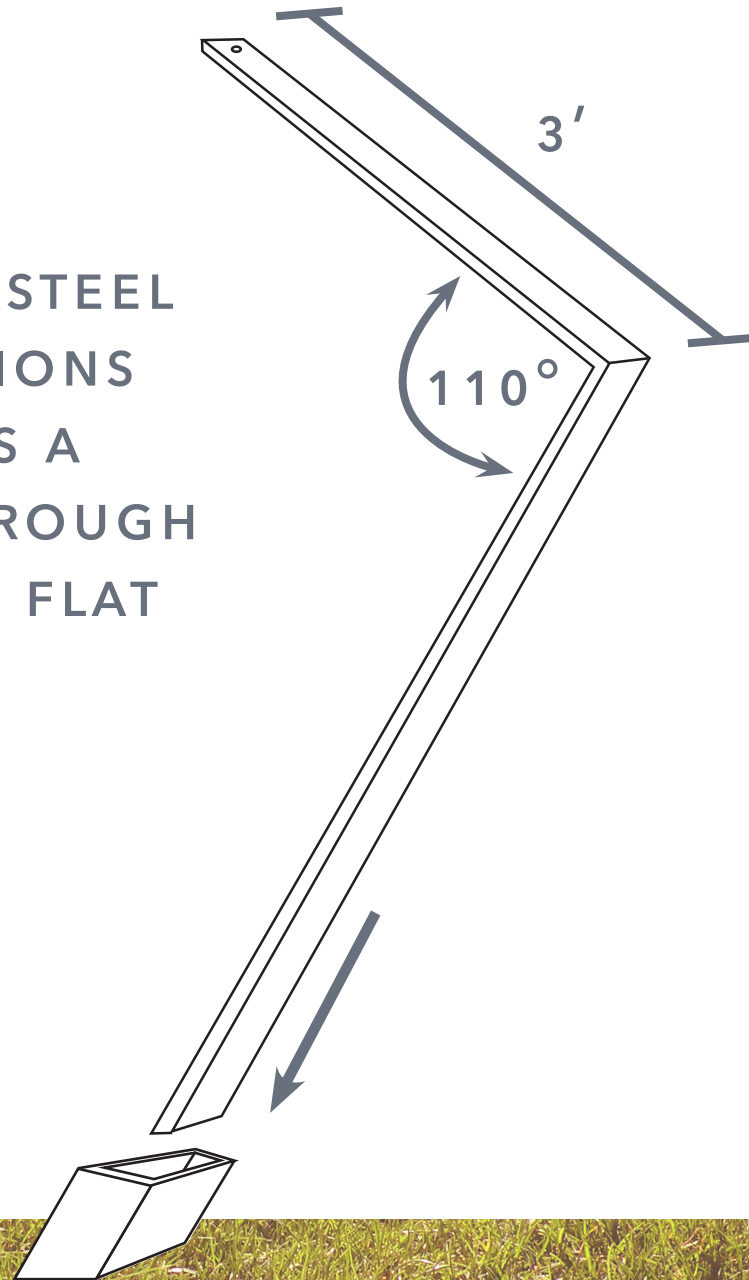
◇ STEP 1 FOUNDATION

HAMMER TUBE STEEL IN
AT A 30° ANGLE.
STOP WHEN 3" ARE
LEFT ABOVE GROUND



◇ STEP 2 SUPPORT

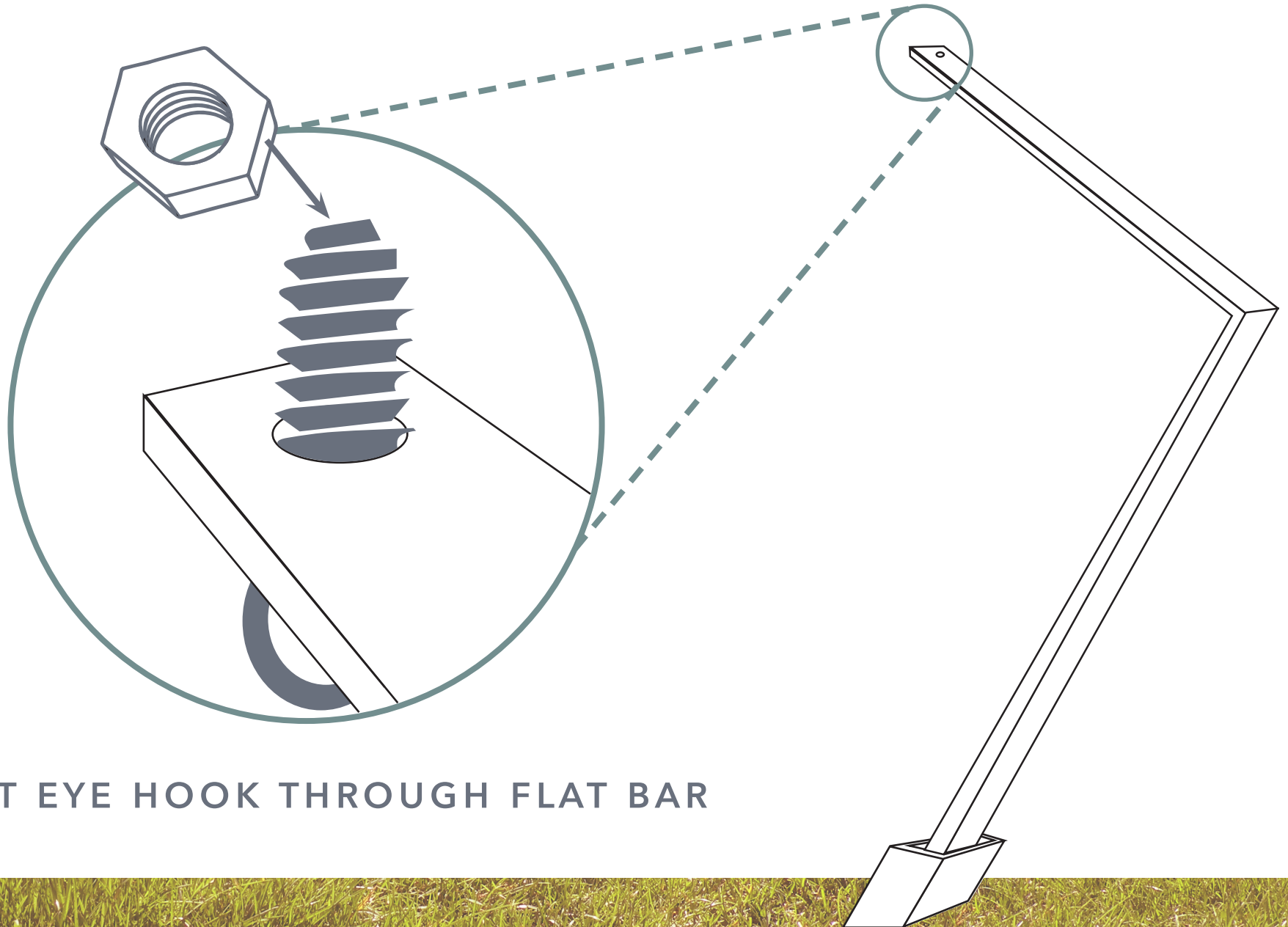
HAVE YOUR FLAT BAR STEEL BENT TO THE DIMENSIONS SPECIFIED AS WELL AS A HOLE PREDRILLED THROUGH THE TOP. THEN PLACE FLAT BAR STEEL IN SLEEVE



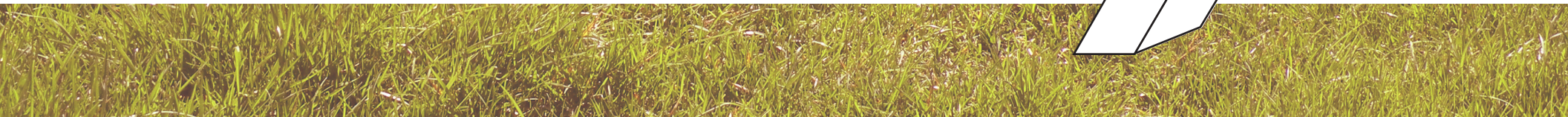


STEP 3

HANGER



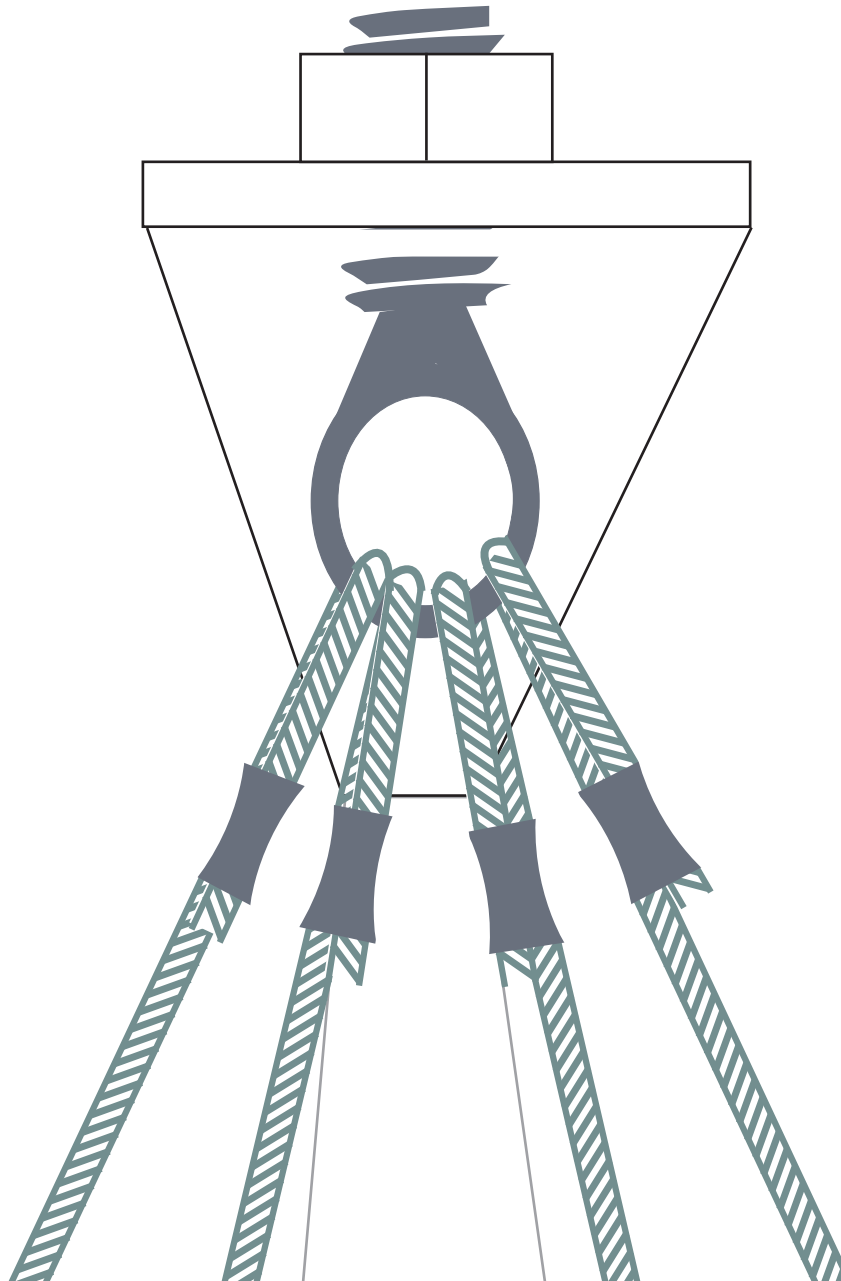
BOLT EYE HOOK THROUGH FLAT BAR





STEP 4

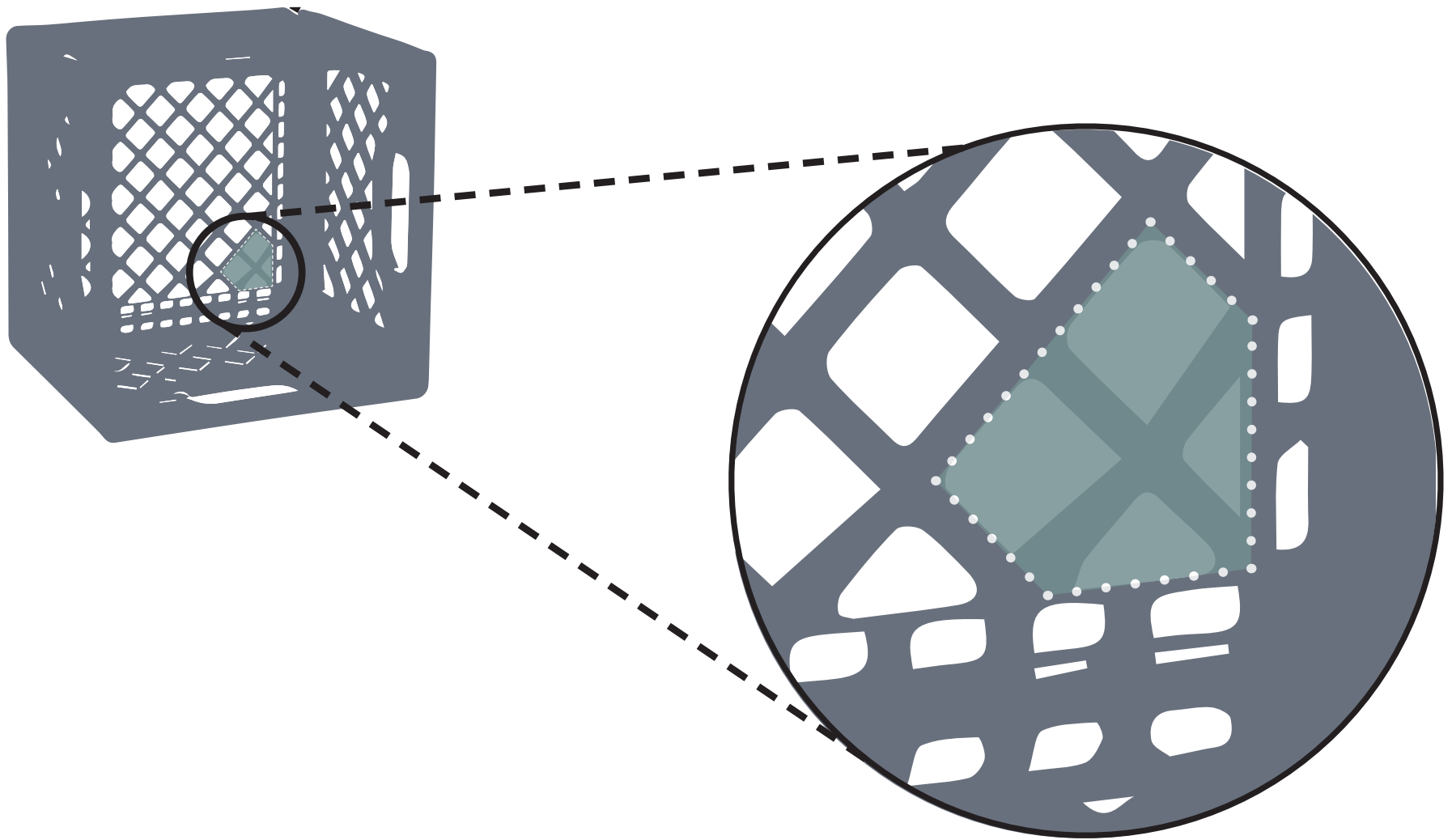
TENSION



THREAD AND CRIMP
THE 4 PIECES OF
CABLE.

EYE HOOK SHOULD BE
ROTATED FOR THE
LIBRARY TO FACE THE
CORRECT POSITION
WHEN FULLY
ASSEMBLED

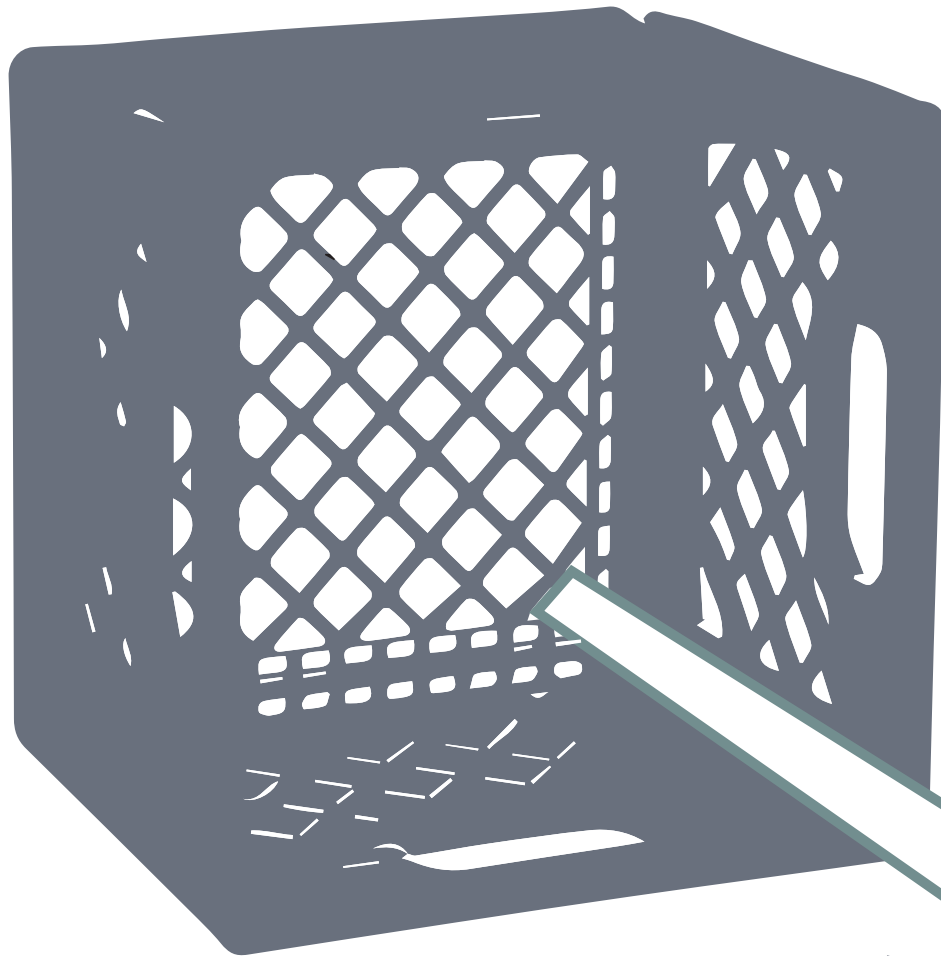
◇ STEP 5 CONTAINER



CUT OUT A LARGER HOLE FROM BACK OF CRATE

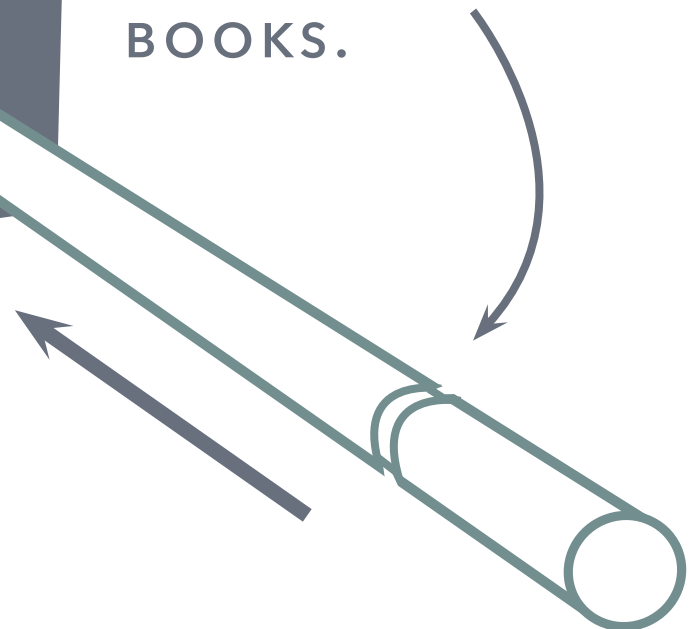
◇ STEP 6

CONTAINER (CONT.)



SLIDE WOODEN DOWEL
THROUGH HOLE

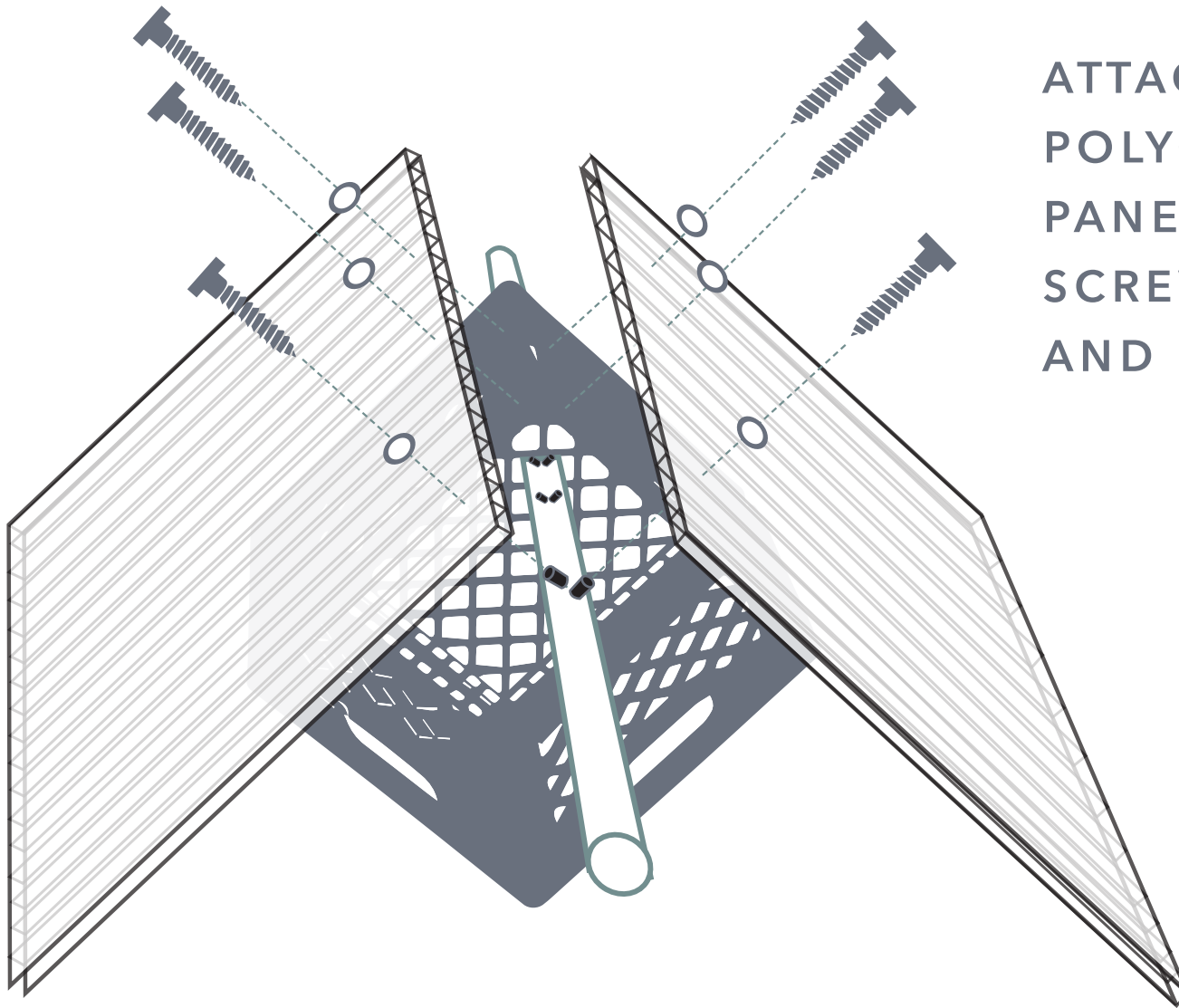
SAW A NOTCH AROUND
THE DOWEL, 8" FROM THE
EDGE TO SERVE AS THE
WATERPROFFING
CHANNEL TO DEFLECT
WATER FROM YOUR
BOOKS.





STEP 7

ROOF



ATTACH THE
POLYCARBONATE
PANELS TO DOWEL WITH
SCREWS, WASHERS,
AND SPACERS



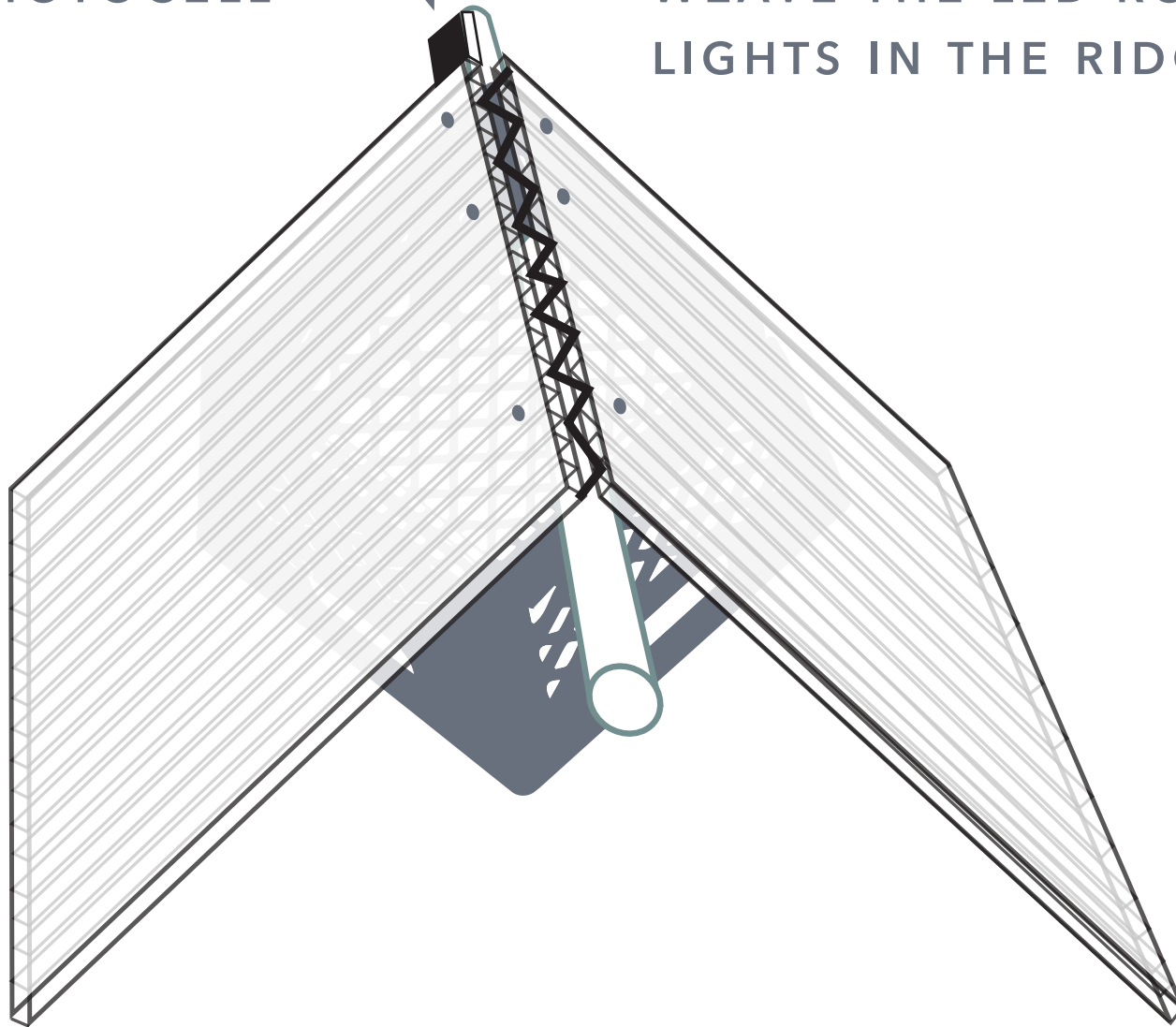
STEP 8

LIGHTING

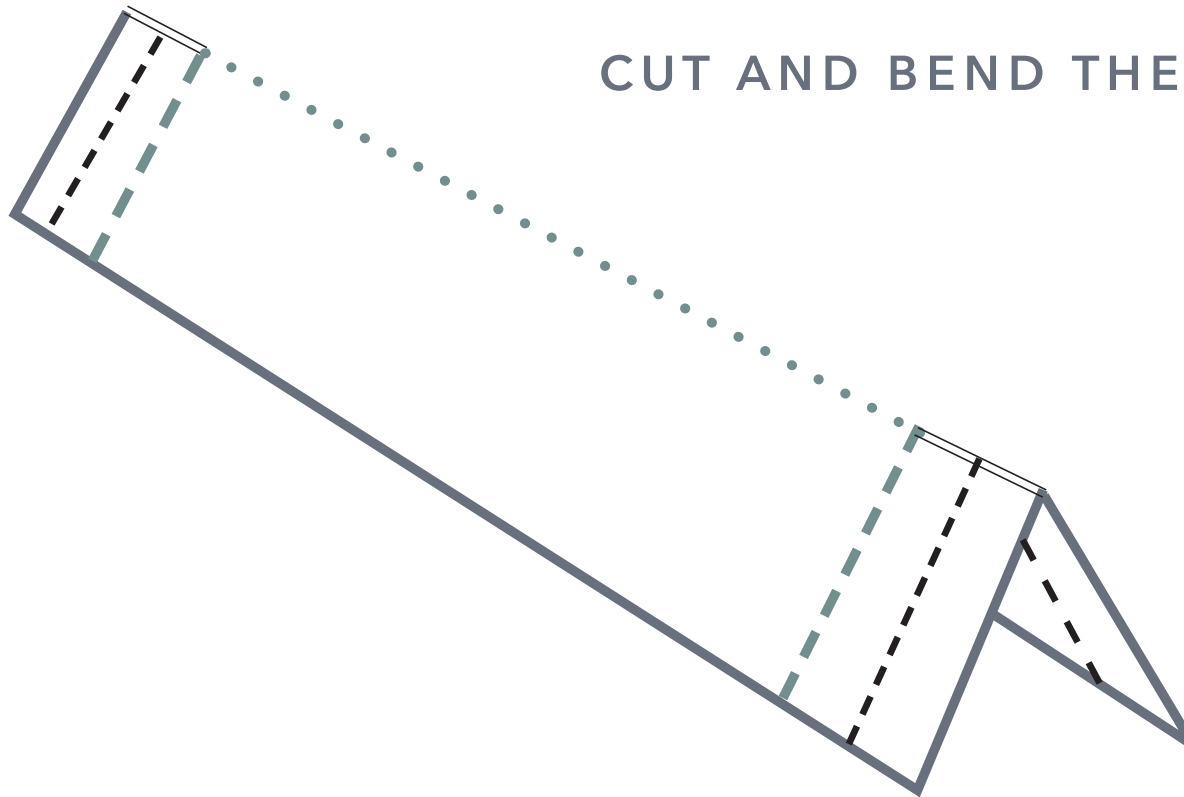
PHOTOCELL



WEAVE THE LED ROPE LIGHTS IN THE RIDGE



CUT AND BEND THE FLASHING



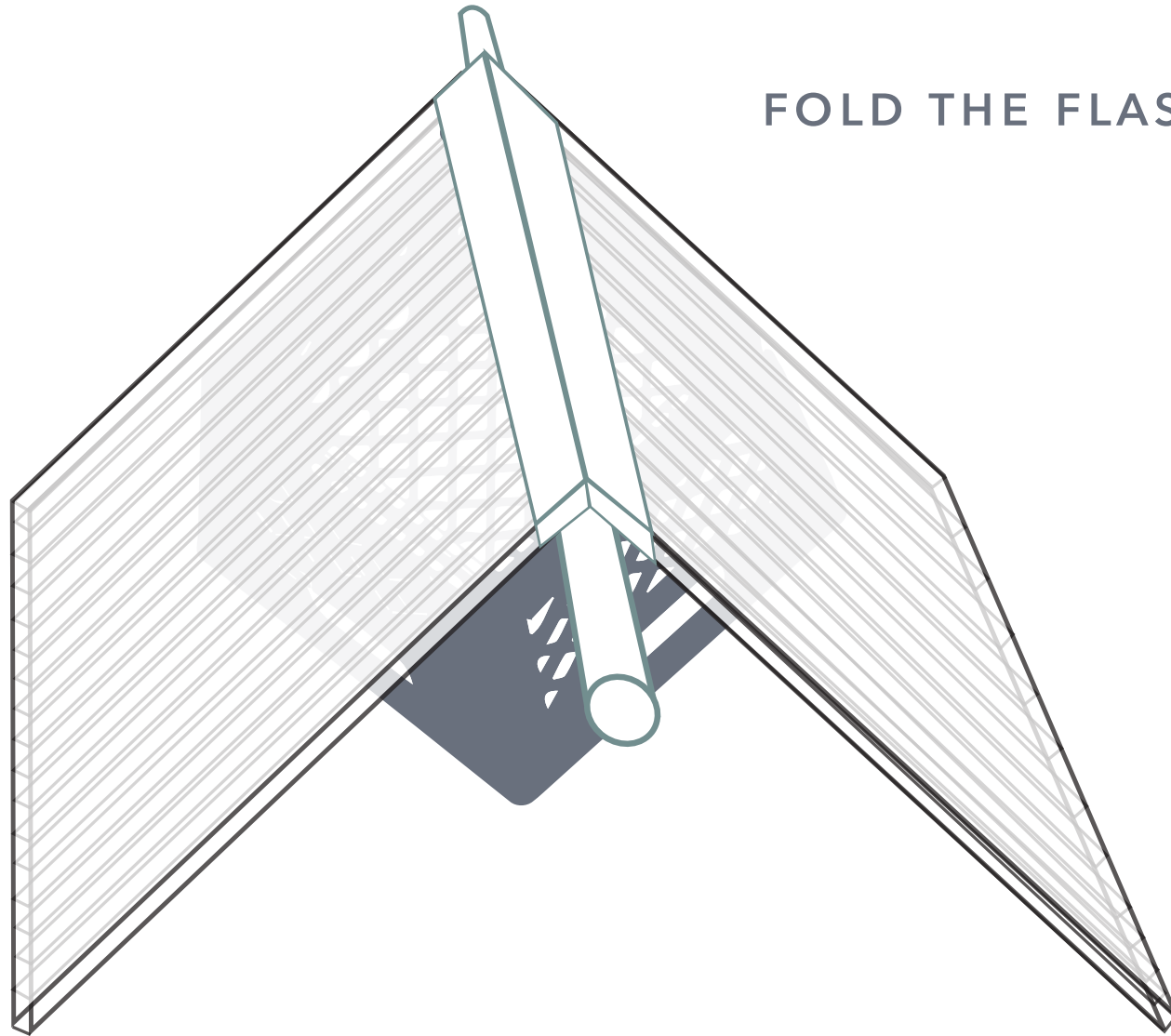
==== CUT

..... FOLD OF RIDGE

- - - FOLD OVER TOP EDGE OF ROOF

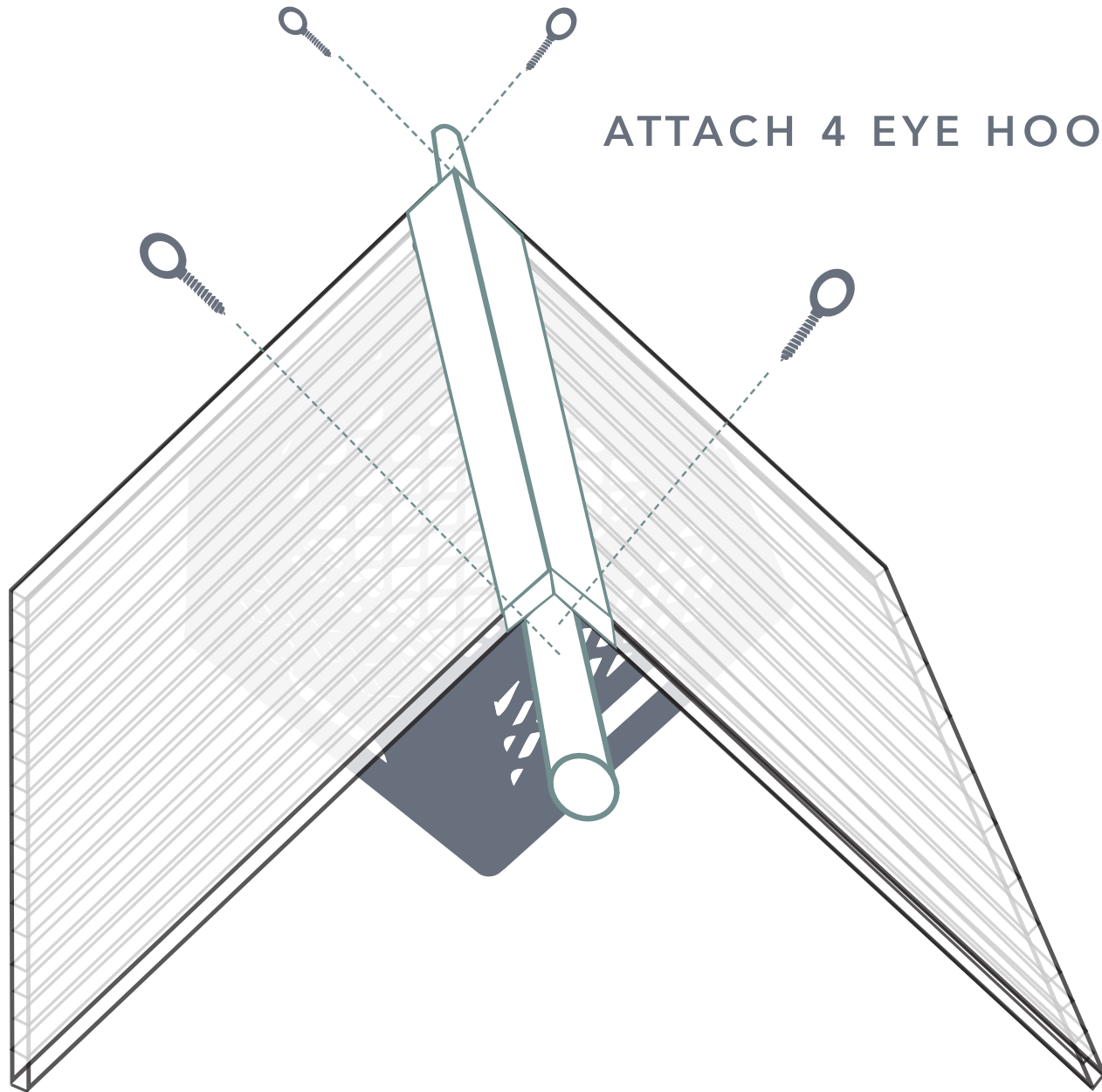
- - - - FOLD ONCE ON ROOF AROUND EDGE

◇ STEP 10 WATERPROOFING



FOLD THE FLASHING AROUND ROOF

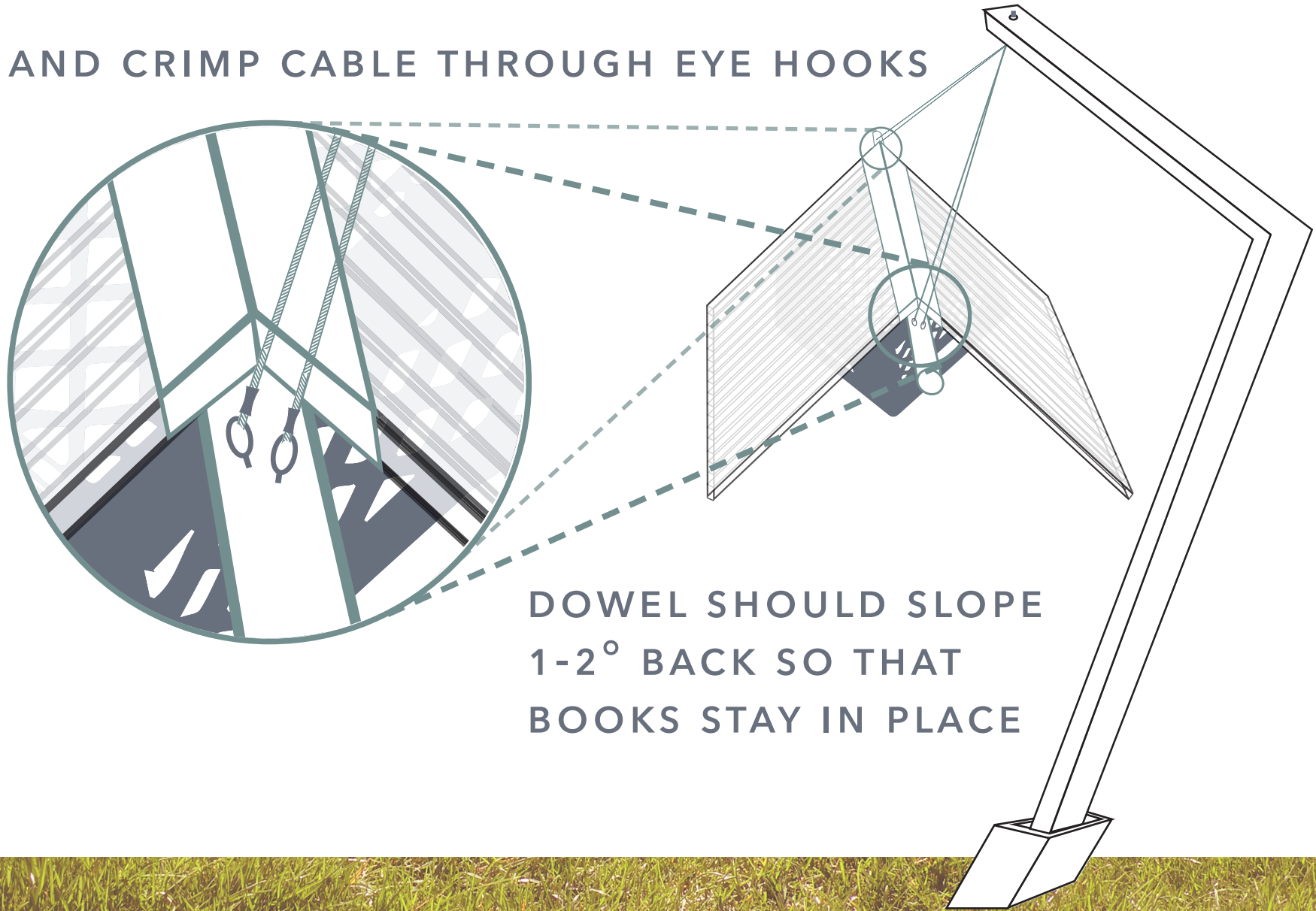
◇ STEP 11 ATTACHMENT



ATTACH 4 EYE HOOKS INTO THE ROD

◇ STEP 12 FULL ASSEMBLY

THREAD AND CRIMP CABLE THROUGH EYE HOOKS



DOWEL SHOULD SLOPE
1-2° BACK SO THAT
BOOKS STAY IN PLACE

◇ STEP 13 LOAD YOUR BOOKS AND ENJOY!



ROOT STUDIO ARCHITECTS
VERGE ARCHITECTURE AND DESIGN
SADIE WECHSLER PHOTOGRAPHY

BARBARA BUSETTI
LEAH MARTIN
MEGAN RUHLACH
STEVE DUNCAN
VIKRAM PRAKASH
SADIE WECHSLER
MORGAN HAMMER

STONEWAY ELECTRIC
METAL SHORTS
CRYSTALITE

CONTACT: LEAH MARTIN 206-383-7274

