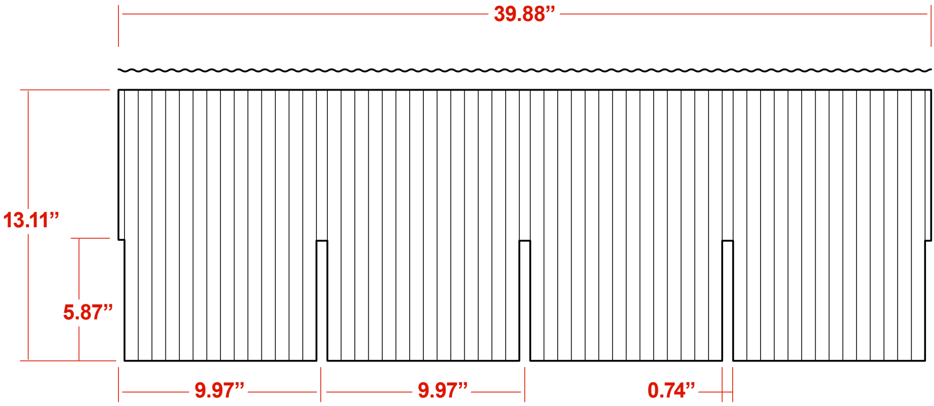
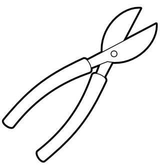
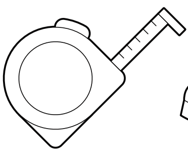


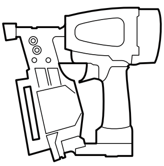


TIJERAS

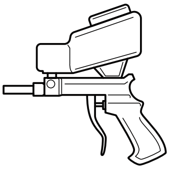


REGLA

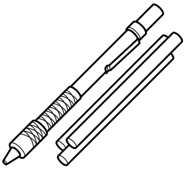
ZAPATOS DE SEGURIDAD



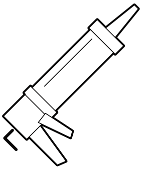
PISTOLA CLAVADORA DE BOBINA



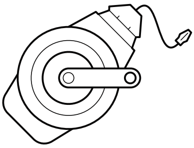
PISTOLA DE CHORRO DE ARENA



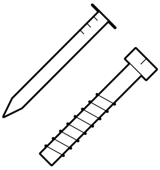
SOAPSTONE PENCIL



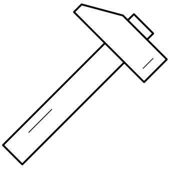
SEALANT



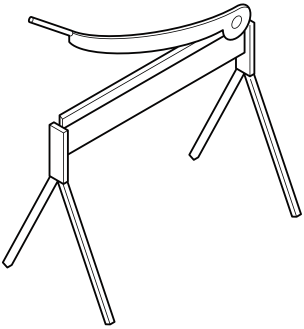
CHALK LINE TOOL



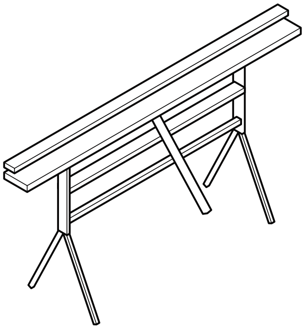
NAILS, SCREWS



HAMMER



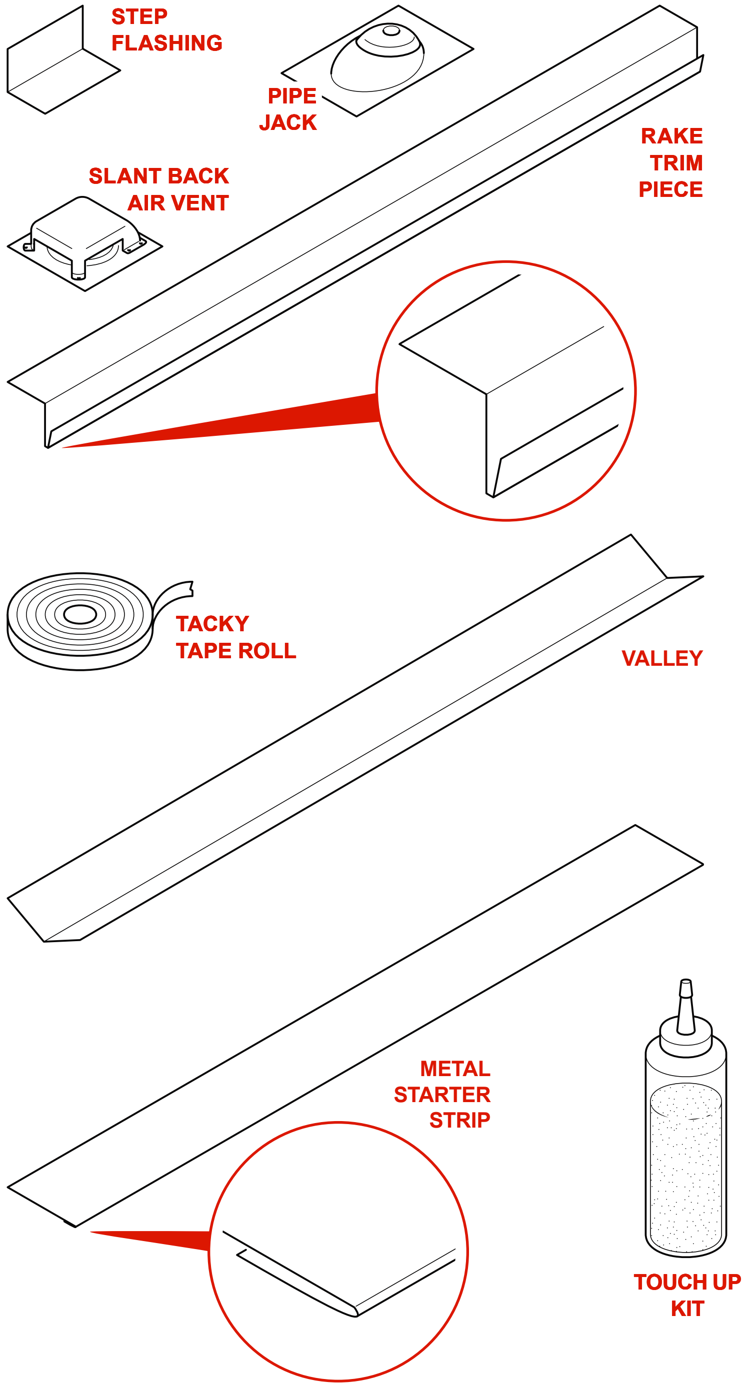
CUTTER

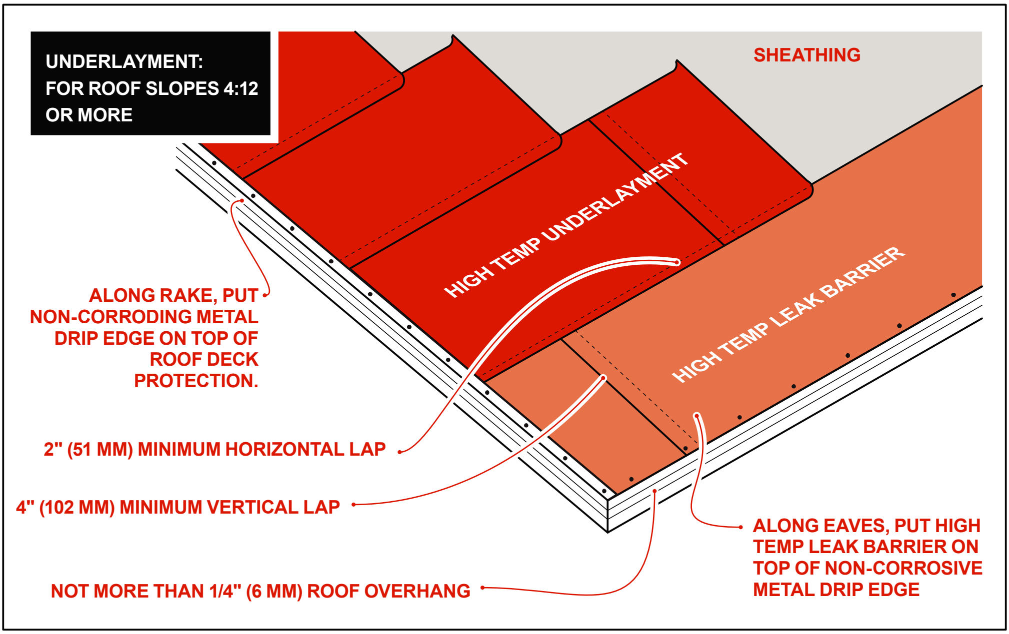


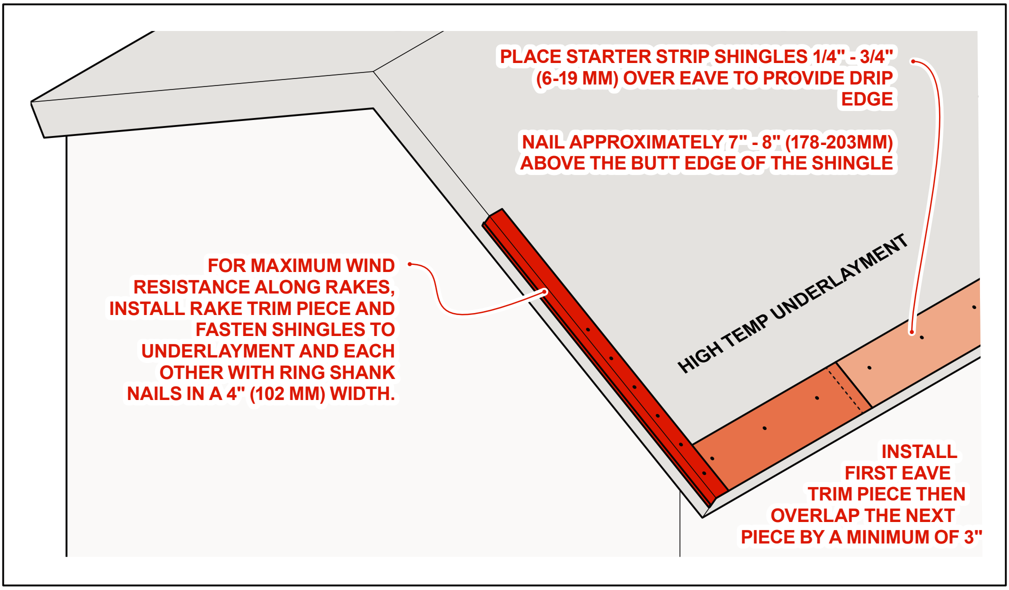
BENDER

DO NOT USE ELECTRIC CUTTER!

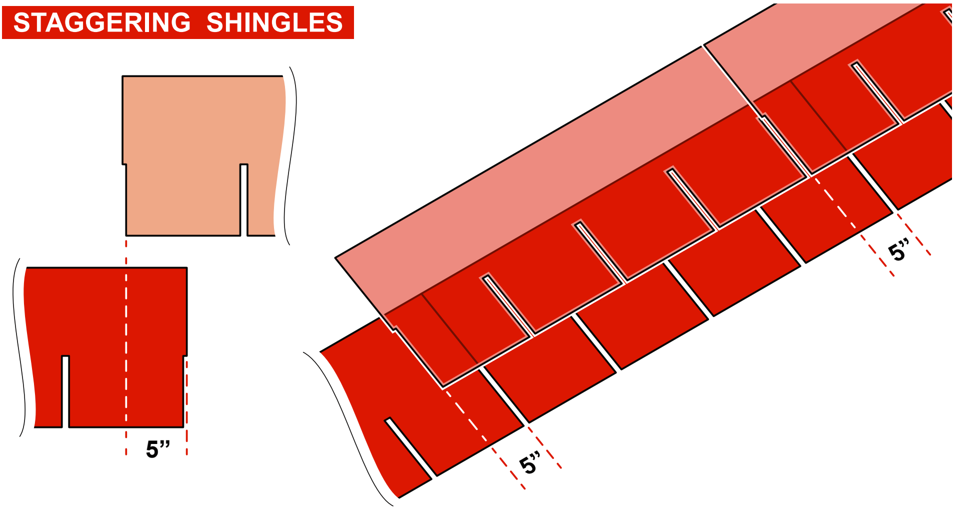
INSTALLERS ARE REMINDED TO WEAR THE PROPER GEAR WHEN HANDLING OBJECTS WITH SHARP EDGES


STEP FLASHING
PIPE JACK
SLANT BACK AIR VENT
RAKE TRIM PIECE
TACKY TAPE ROLL
VALLEY
METAL STARTER STRIP
TOUCH UP KIT

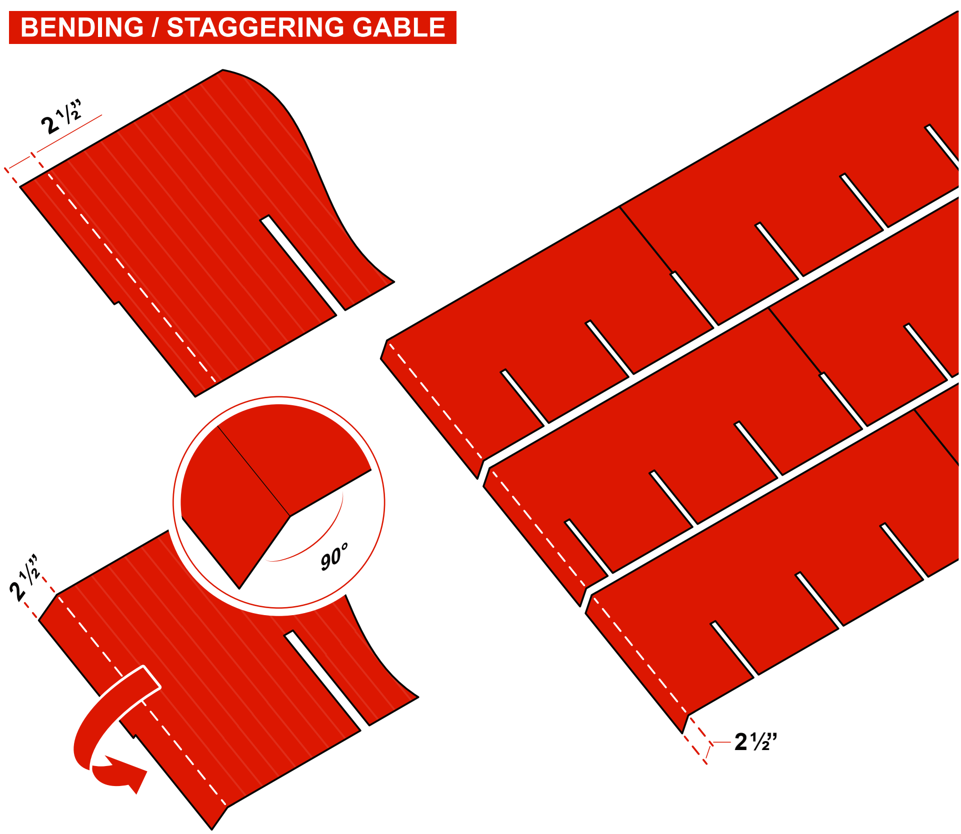

UNDERLAYMENT:
FOR ROOF SLOPES 4:12 OR MORE
SHEATHING
HIGH TEMP UNDERLAYMENT
HIGH TEMP LEAK BARRIER
ALONG RAKE, PUT NON-CORRODING METAL DRIP EDGE ON TOP OF ROOF DECK PROTECTION.
2" (51 MM) MINIMUM HORIZONTAL LAP
4" (102 MM) MINIMUM VERTICAL LAP
NOT MORE THAN 1/4" (6 MM) ROOF OVERHANG
ALONG EAVES, PUT HIGH TEMP LEAK BARRIER ON TOP OF NON-CORROSIVE METAL DRIP EDGE

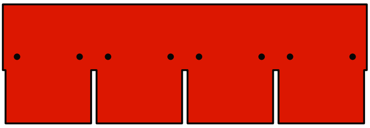

PLACE STARTER STRIP SHINGLES 1/4" - 3/4" (6-19 MM) OVER EAVE TO PROVIDE DRIP EDGE
NAIL APPROXIMATELY 7" - 8" (178-203MM) ABOVE THE BUTT EDGE OF THE SHINGLE
FOR MAXIMUM WIND RESISTANCE ALONG RAKES, INSTALL RAKE TRIM PIECE AND FASTEN SHINGLES TO UNDERLAYMENT AND EACH OTHER WITH RING SHANK NAILS IN A 4" (102 MM) WIDTH.
HIGH TEMP UNDERLAYMENT
INSTALL FIRST EAVE TRIM PIECE THEN OVERLAP THE NEXT PIECE BY A MINIMUM OF 3"

STAGGERING SHINGLES

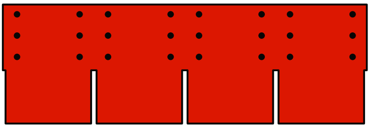


BENDING / STAGGERING GABLE





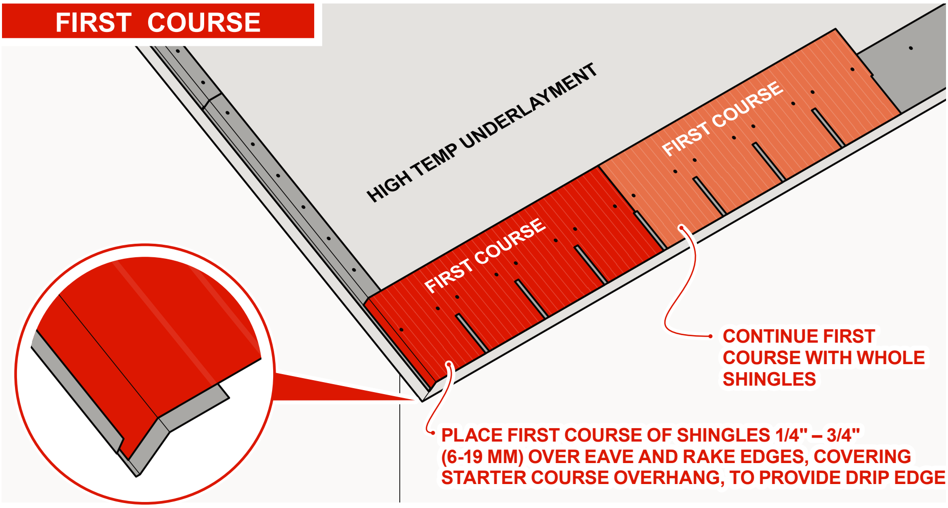
STANDARD NAILING ASSEMBLY
HOT DIPPED RING SHANK COIL NAILS OR BURCO RING SHANK NAILS



EXTREME HIGH WINDS NAILING ASSEMBLY
HOT DIPPED RING SHANK COIL NAILS OR BURCO RING SHANK NAILS

PRESS DOWN ON THE METAL PANEL BEFORE NAILING

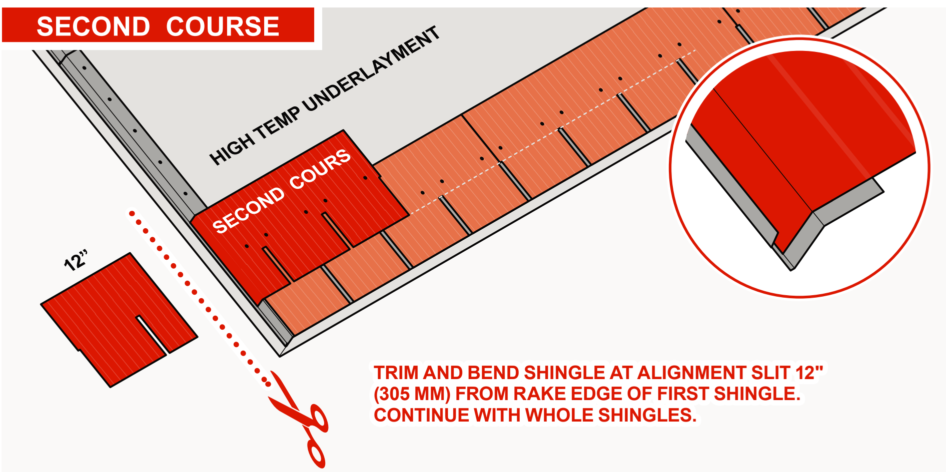
FIRST COURSE



CONTINUE FIRST COURSE WITH WHOLE SHINGLES

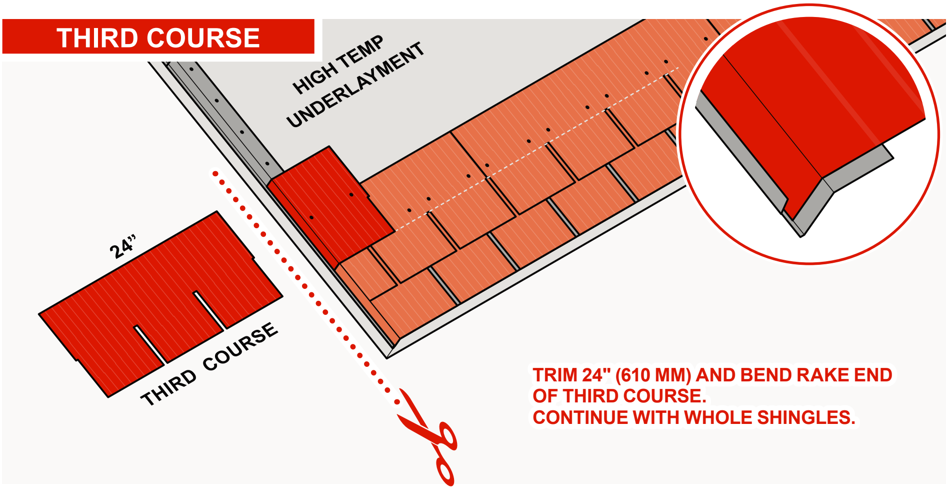
PLACE FIRST COURSE OF SHINGLES 1/4" – 3/4" (6-19 MM) OVER EAVE AND RAKE EDGES, COVERING STARTER COURSE OVERHANG, TO PROVIDE DRIP EDGE

SECOND COURSE



TRIM AND BEND SHINGLE AT ALIGNMENT SLIT 12" (305 MM) FROM RAKE EDGE OF FIRST SHINGLE. CONTINUE WITH WHOLE SHINGLES.

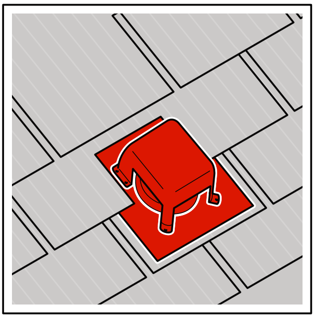
THIRD COURSE



TRIM 24" (610 MM) AND BEND RAKE END OF THIRD COURSE.
CONTINUE WITH WHOLE SHINGLES.

VENTILATION

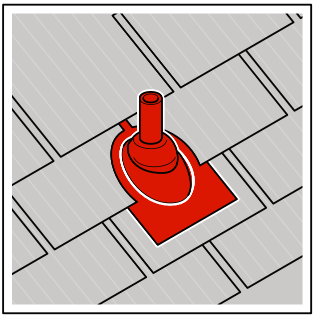
Install ventilation products for optimal shingle life. See General Instructions and the "Through Ventilation" section. Follow the application instructions for the selected ventilation products.

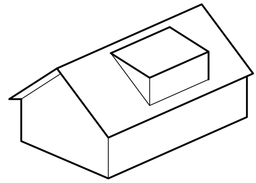


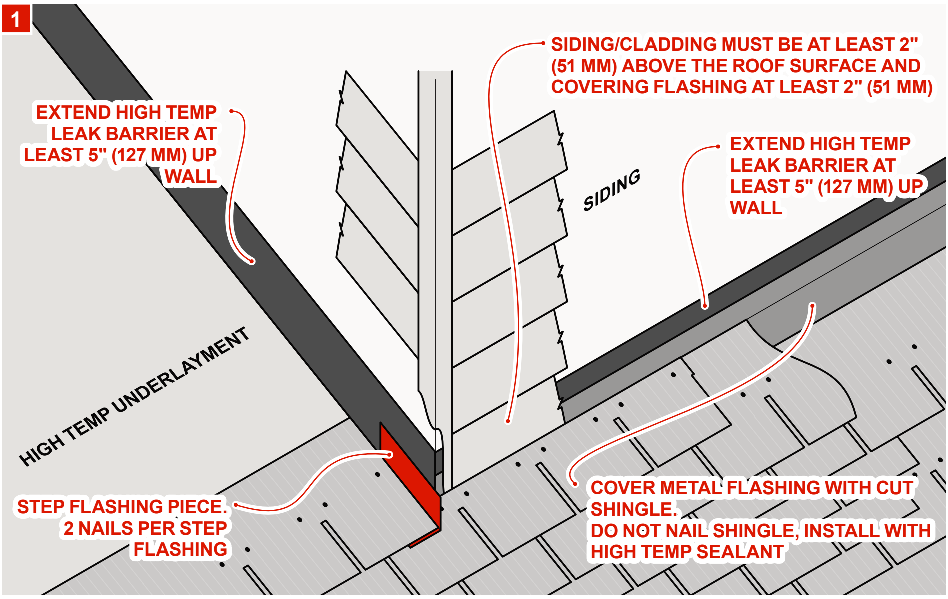
PIPE JACK

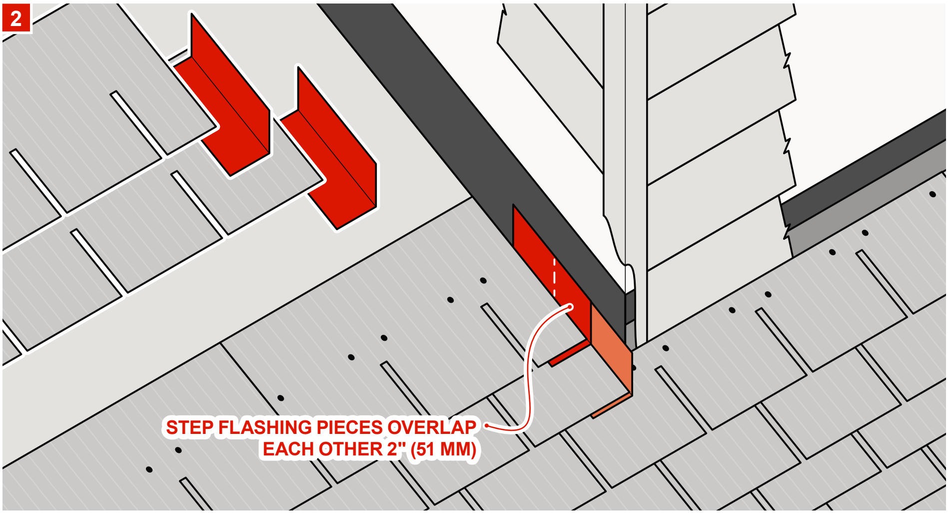
⚠ Lead pipe jacks can react with Galvalume metal, leading to galvanic corrosion

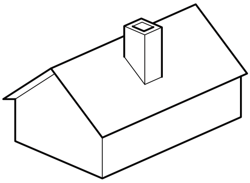
CAUTION: High temp underlayment is a requirement*

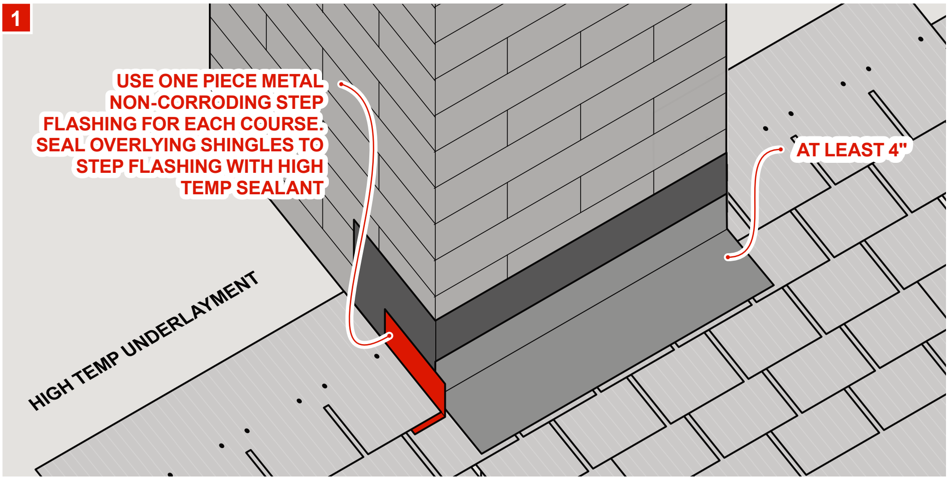


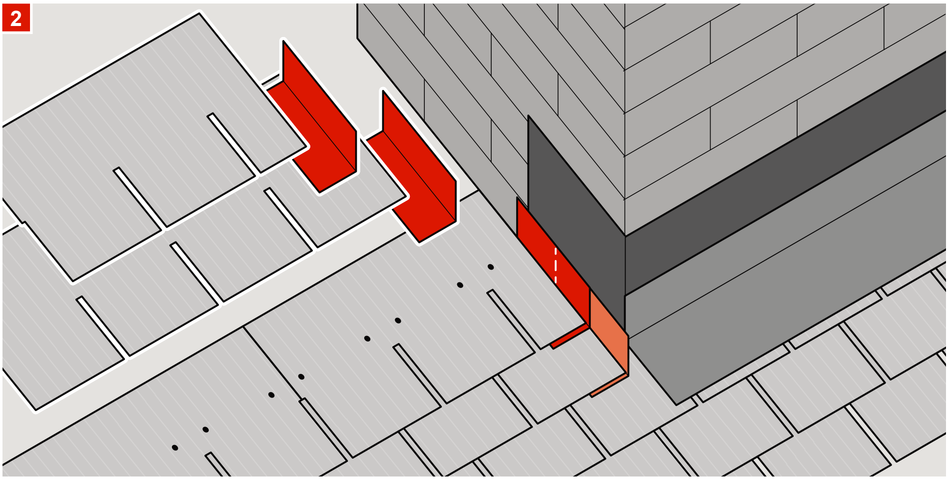



1
EXTEND HIGH TEMP LEAK BARRIER AT LEAST 5" (127 MM) UP WALL
SIDING/CLADDING MUST BE AT LEAST 2" (51 MM) ABOVE THE ROOF SURFACE AND COVERING FLASHING AT LEAST 2" (51 MM)
SIDING
EXTEND HIGH TEMP LEAK BARRIER AT LEAST 5" (127 MM) UP WALL
HIGH TEMP UNDERLAYMENT
STEP FLASHING PIECE. 2 NAILS PER STEP FLASHING
COVER METAL FLASHING WITH CUT SHINGLE.
DO NOT NAIL SHINGLE, INSTALL WITH HIGH TEMP SEALANT

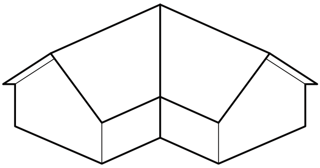

2
STEP FLASHING PIECES OVERLAP EACH OTHER 2" (51 MM)

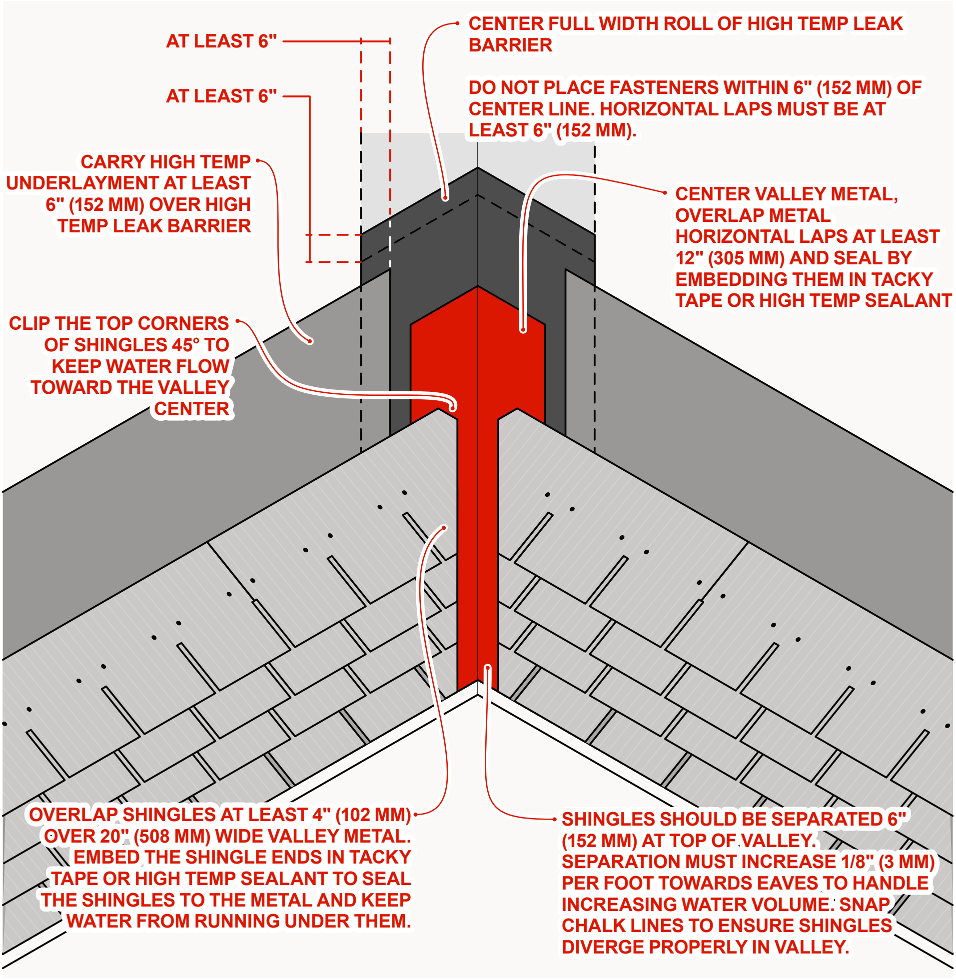


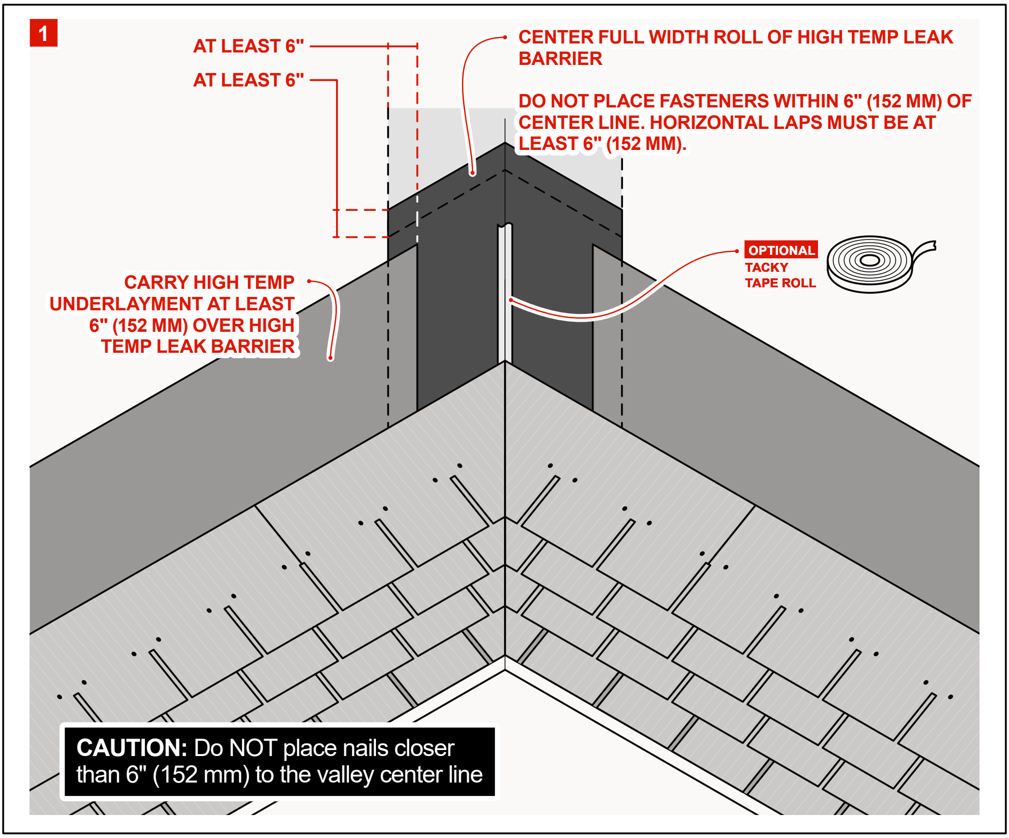

1
USE ONE PIECE METAL NON-CORRODING STEP FLASHING FOR EACH COURSE. SEAL OVERLYING SHINGLES TO STEP FLASHING WITH HIGH TEMP SEALANT
AT LEAST 4"
HIGH TEMP UNDERLAYMENT

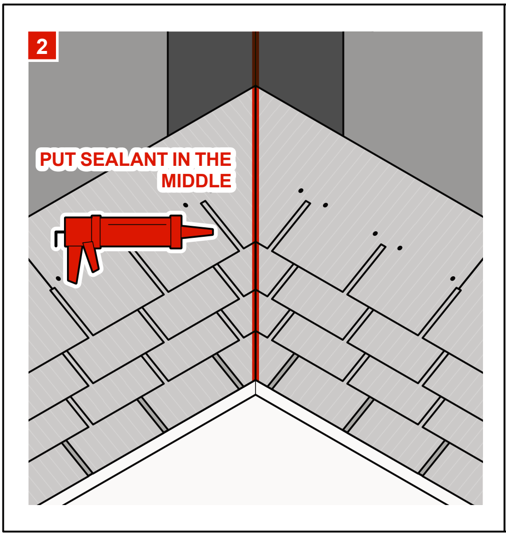

2

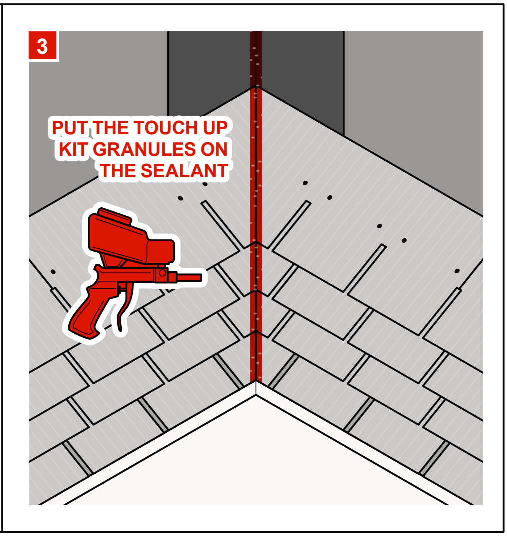
Use minimum 20" (508 mm) wide aluminum, galvanized steel, or other non-corroding, non-staining metals (26 gauge minimum). Long valleys or local building codes may require wider metal. Nail the metal on the edges so the nail heads hold it in place. Do not puncture the metal. Nailing through the metal may cause leaking and buckling due to movement.



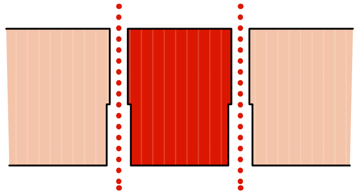


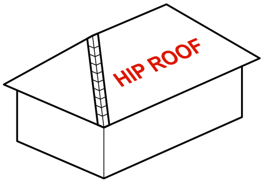

1
AT LEAST 6"
AT LEAST 6"
CENTER FULL WIDTH ROLL OF HIGH TEMP LEAK BARRIER
DO NOT PLACE FASTENERS WITHIN 6" (152 MM) OF CENTER LINE. HORIZONTAL LAPS MUST BE AT LEAST 6" (152 MM).
CARRY HIGH TEMP UNDERLAYMENT AT LEAST 6" (152 MM) OVER HIGH TEMP LEAK BARRIER
OPTIONAL
TACKY TAPE ROLL
CAUTION: Do NOT place nails closer than 6" (152 mm) to the valley center line

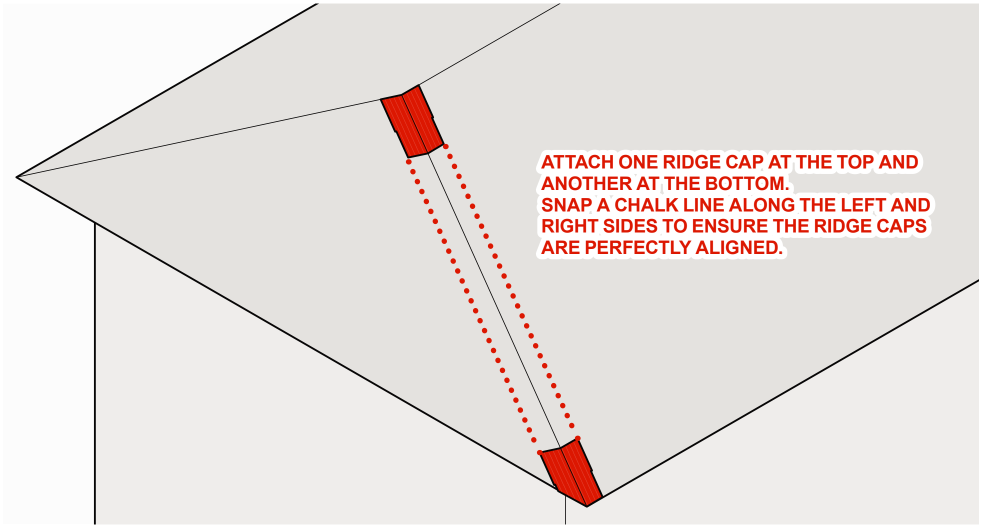

2
PUT SEALANT IN THE MIDDLE

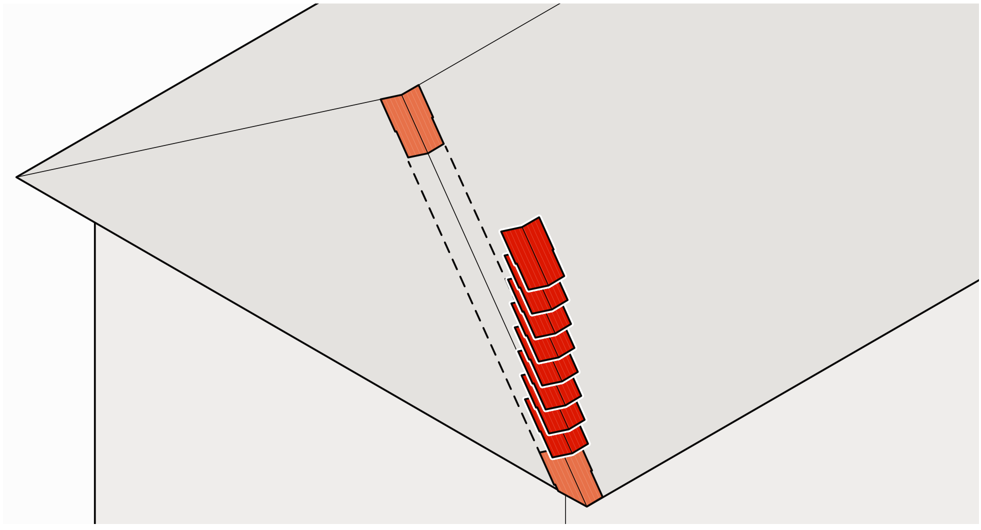

3
PUT THE TOUCH UP KIT GRANULES ON THE SEALANT

Make the ridge cap by cutting the shingle



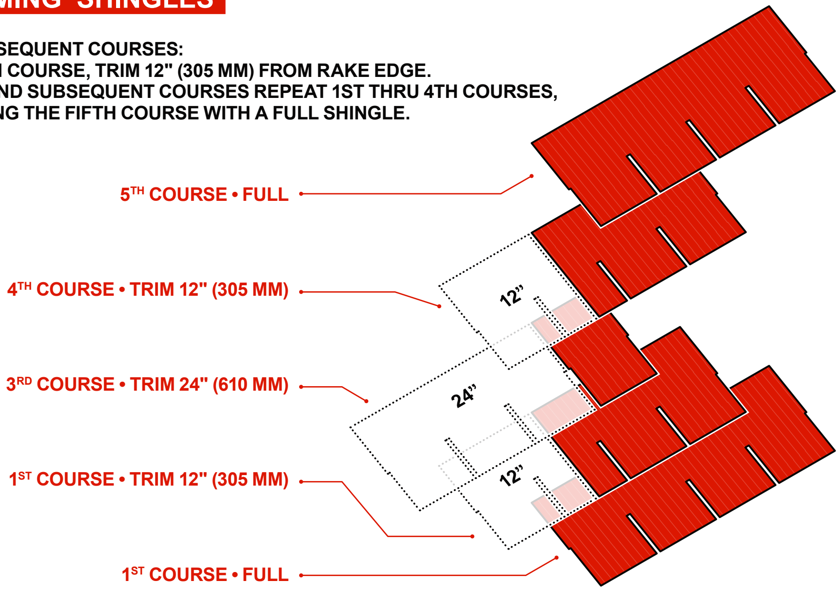




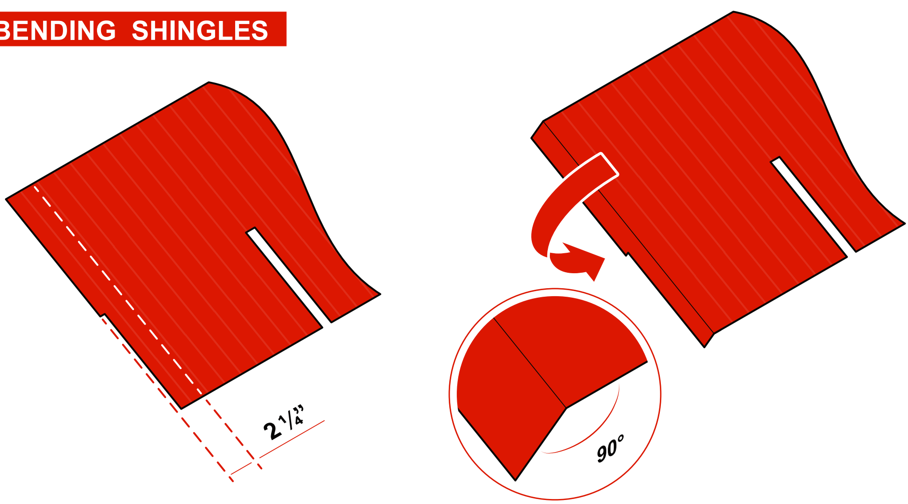


TRIMMING SHINGLES

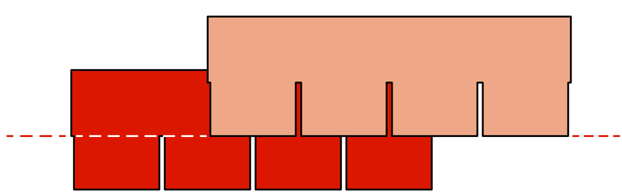
FOR SUBSEQUENT COURSES:
- **FOURTH COURSE, TRIM 12" (305 MM) FROM RAKE EDGE.**
- **FIFTH AND SUBSEQUENT COURSES REPEAT 1ST THRU 4TH COURSES,**
- **STARTING THE FIFTH COURSE WITH A FULL SHINGLE.**



BENDING SHINGLES



THE NEXT SHINGLE STARTS AT THE TOP OF THE KEYWAY



HURRICANE METAL TILE

CHARCOAL · TERRACOTTA

LENGTH:	50 1/4”
WIDTH:	16 3/4”
WEIGHT:	5.6 lb

BATTENS ✓ | FOAM ✓

HIP / RIDGE / RAKE WITH END CAP
LENGTH: 16 1/4”
WIDTH: 6”
HEIGHT: 3 1/4”
WEIGHT: 0.9 lb

VALLEY
LENGTH: 6’6 3/4”
WIDTH: 6 1/2”
WEIGHT: 4.4 lb

6”, 9”, 18” FLAT SHEETS
SMALL · MEDIUM · LARGE
LENGTH: 78 3/4”

Z-BAR SIDE FLASHING
LENGTH: 6’6 3/4”
WIDTH: 5 1/2”
WEIGHT: 2.8 lb

BIRD STOP EAVE
LENGTH: 78 5/8”
WIDTH: 7 1/4”
WEIGHT: 3.2 lb

BIRD STOP RIDGE
LENGTH: 77 3/4”
WIDTH: 7 1/2”
WEIGHT: 3.4 lb

ROLL OVER RAKE TRIM
LENGTH: 6’6 3/4”
TOP BEND: 2”
BOTTOM BEND: 2 1/2”
EXPOSED GRANULES: 1 1/4”
WEIGHT: 2.8 lb

FOAM
LENGTH: 47 1/4”
WIDTH: 10”
HEIGHT: 3”

BATTENS
2 × 2 × 7½
BUNDLE: 12pc

BOTTLE OF GRANULES
CAPACITY: 16oz

HURRICANE METAL SHAKE

MOCHA BROWN · WEATHER WOOD +

LENGTH:	52 3/4”
WIDTH:	16 1/8”
WEIGHT:	5.7 lb

BATTENS ✓ | FOAM ✓

HIP / RIDGE CAP
LENGTH: 17 1/2”
WIDTH: 8”
WEIGHT: 1 lb

VALLEY
LENGTH: 6’6 3/4”
WIDTH: 6 1/2”
WEIGHT: 4.4 lb

6”, 9”, 18” FLAT SHEETS
SMALL · MEDIUM · LARGE
LENGTH: 78 3/4”

Z-BAR SIDE FLASHING
LENGTH: 6’6 3/4”
WIDTH: 5 1/2”
WEIGHT: 2.8 lb

REVERSIBLE EAVE TRIM
LENGTH: 6’6 3/4”
INWARD HEM: 2 1/4”
OUTWARD HEM: 3 1/4”
WEIGHT: 2.8 lb

CAPPED RAKE TRIM
XL
LENGTH: 6’6 3/4”
TOP BEND: 2 1/4”
BOTTOM BEND: 4 3/4”
WEIGHT: 4 lb

LENGTH: 6’6 3/4”
TOP BEND: 2”
BOTTOM BEND: 3”
WEIGHT: 2.8 lb

ROLL OVER RAKE TRIM
LENGTH: 6’6 3/4”
TOP BEND: 2”
BOTTOM BEND: 2 1/2”
EXPOSED GRANULES: 1 1/4”
WEIGHT: 2.8 lb

STANDARD FOAM
LENGTH: 49 1/2”
WIDTH: 8”
TOP THICKNESS: 3/16”
BOTTOM THICKNESS: 13/16”

BATTENS
2 × 2 × 7½
BUNDLE: 12pc

RAKE BATTENS
1 × 2 × 7½
BUNDLE: 12pc

BOTTLE OF GRANULES
CAPACITY: 16oz

RAKE TRIM GUIDE ▪ TOOL ▪

WOOD BATTEN SPACER ▪ TOOL ▪

HURRICANE METAL SHAKE PRO

CHARCOAL · SADDLE BROWN · GRAY

LENGTH:	52 1/4”
WIDTH:	14 1/8”
WEIGHT:	5.3 lb

BATTENS ✗ | FOAM ✓

HIP / RIDGE CAP
LENGTH: 17 1/2”
WIDTH: 8”
WEIGHT: 1 lb

VALLEY
LENGTH: 6’6 3/4”
WIDTH: 6 1/2”
WEIGHT: 4.4 lb

6”, 9”, 18” FLAT SHEETS
SMALL · MEDIUM · LARGE
LENGTH: 78 3/4”

Z-BAR SIDE FLASHING
LENGTH: 6’6 3/4”
WIDTH: 5 1/2”
WEIGHT: 2.8 lb

INTERLOCKING EAVE TRIM
LENGTH: 6’6 3/4”
TOP BEND: 3”
BOTTOM BEND: 3”
LOCK: 2 1/2”
WEIGHT: 4 lb

CAPPED RAKE TRIM
XL
LENGTH: 6’6 3/4”
TOP BEND: 2 1/4”
BOTTOM BEND: 4 3/4”
WEIGHT: 4 lb

LENGTH: 6’6 3/4”
TOP BEND: 2”
BOTTOM BEND: 3”
WEIGHT: 2.8 lb

ROLL OVER RAKE TRIM
LENGTH: 6’6 3/4”
TOP BEND: 2”
BOTTOM BEND: 2 1/2”
EXPOSED GRANULES: 1 1/4”
WEIGHT: 2.8 lb

PRO FOAM
LENGTH: 49 1/2”
WIDTH: 8”
TOP THICKNESS: 6/16”
BOTTOM THICKNESS: 1”

BATTENS
2 × 2 × 7½
BUNDLE: 12pc

RAKE BATTENS
1 × 2 × 7½
BUNDLE: 12pc

RAKE BATTENS
1 × 2 × 7½
BUNDLE: 12pc

BOTTLE OF GRANULES
CAPACITY: 16oz

RAKE TRIM GUIDE ▪ TOOL ▪

HURRICANE TEK METAL SHINGLE

WEATHER WOOD

LENGTH:	39 3/4”
WIDTH:	13 1/8”
WEIGHT:	3 lb

BATTENS ✗ | FOAM ✗

VALLEY
LENGTH: 78 3/4”
WIDTH: 8 3/8”
BENDS: 4 1/2”
WEIGHT: 4.3 lb

6”, 9”, 18” FLAT SHEETS
SMALL · MEDIUM · LARGE
LENGTH: 78 3/4”

STEP FLASHING
LENGTH: 8”
WIDTH: 4”
HEIGHT: 4”

METAL STARTER STRIP
LENGTH: 78 3/4”
WIDTH: 7 3/4”
HEM: 1 1/4”
WEIGHT: 4.3 lb

ROLL OVER RAKE TRIM
LENGTH: 6’6 3/4”
TOP BEND: 2”
BOTTOM BEND: 2 1/2”
EXPOSED GRANULES: 1 1/4”
WEIGHT: 2.8 lb

TACKY TAPE ROLL
LENGTH: 45 ft
WIDTH: 1”

PIPE JACK
LENGTH: 14 1/2”
WIDTH: 10 3/4”
WEIGHT: 0.9 lb

SLANT BACK AIR VENT
LENGTH: 16 3/4”
WIDTH: 14”
WEIGHT: 1.9 lb

BOTTLE OF GRANULES
CAPACITY: 16oz