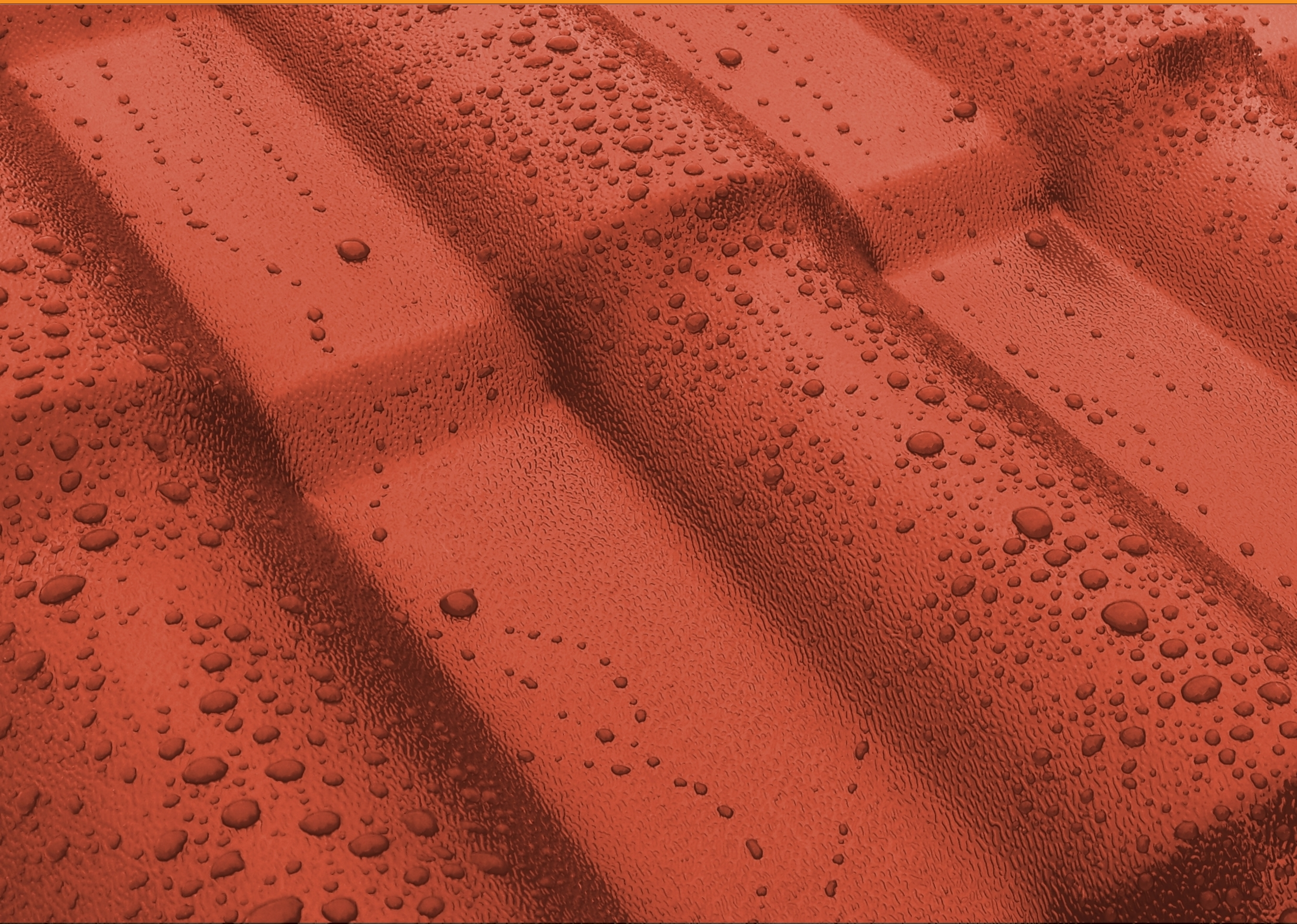


IZOTILE®

TECHNICAL GUIDE

ROYALWAVE
1000-900-40

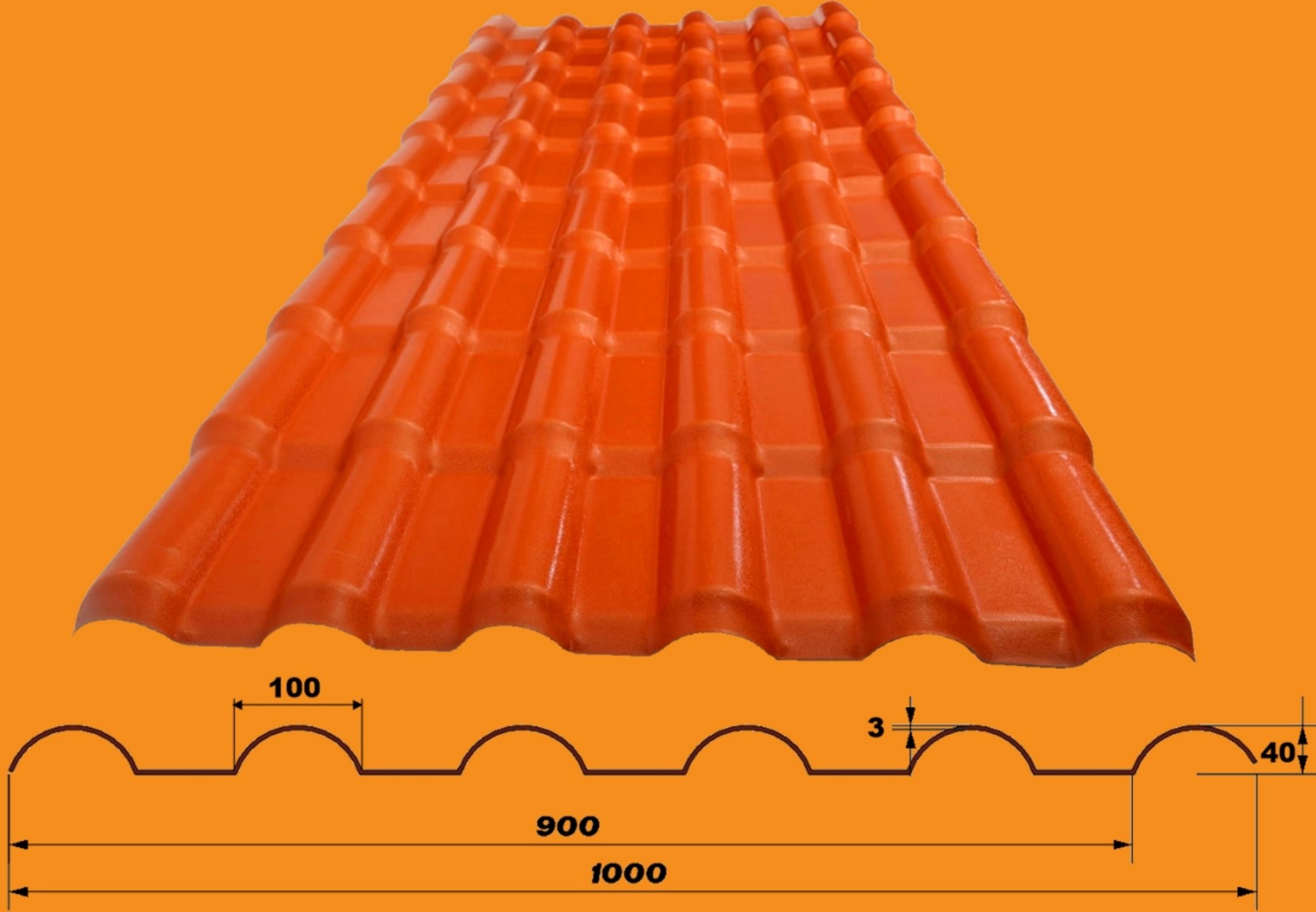


ROYALWAVE 1000-900-40

TEKNİK DATA - TECHNICAL DATA - FICHE TECHNIQUE - FICHA TÉCNICA - SHEDA TECNICA - TECHNISCHES ARBEITSBLATT
POLİMER ÇATI LEVHA/POLYMER ROOF SHEET/TOLE POLYMERE/TEJA DE POLÍMERO/TEGOLA IN POLÍMERO/POLYMER DACHZIEGEL

ROYALWAVE 1000-900-40

FOUR LAYER PVC & ASA CO-EXTRUSION TECHNOLOGY



KALINLIK/THICKNESS/EPAISSEUR/ESPESOR/SPESSORE/DICKE	: 2.5 mm / 3.0 mm / 3.5 mm
UZUNLUK/LENGTH/LONGUEUR/LONGITUD/LUNGHEZZA/LANGE	: 2.0M - 7.0M
EN/WIDTH/LARGEUR/LARGO/LARGHEZZA/BREİTE	: 1000 mm
KAPATAN/COVERS/COUVRE/CUBRE/COPERTINE/ABDECKUNGEN	: 900 mm
AĞIRLIK/WEIGHT/POİDS/PESO/İL PESO/GEWİCHT	: 2.5MM: 4.75KG, 3.0MM: 5.70KG, 3.5MM: 6.60KG / M2
UV TEST/UV PRUEBA/UV PRÜFUNG	: ISO 4892-2, CYCLE1, 1440H
ISI/HEAT/CHALEUR/CALOR/CALORE/WARME	
DAYANMA/RESİSTANCE/RESİSTENCIA/RESİSTENZA/WIDERSTAND	: -40°C / +90°C
YALITIM/INSULATION/İSOLATION/AİSLAMIENTO/İSLAMENTO/İSOLIERUNG	: 0.030927 W/mK (3.5 mm)
YANMAZLIK/FLAMMABILITY/İNFLAMABILİTE/İNFLAMABILİDAD/İNFIAMMABILİTA/ENTFLAMMBARKEİT	: CLASS B1
SES/SOUND/SON/SONİDO/SUONO/KLANG	: 97% SOUND REDUCTION
HER İKLİM/ALL WEATHER/TOUT CLİMAT/TODOS LOS CLİMAS/TUTTE LE CONDIZIONİ ATMOSFERICHE/ALL WETTER	: ALL WEATHER ACRYLIC ASA
SERTİFİKALAR/CERTİFİCATES/CERTİFİCATS/CERTİFİCADOS/CERTİFİCATİ/ZERTİFİKATE	: ISO9001/ISO14001/CE(CQ-CE-22.02)

ROYALWAVE
1000-900-40

STANDARD COLORS



TERRACOTTA



ANTHRACITE GREY



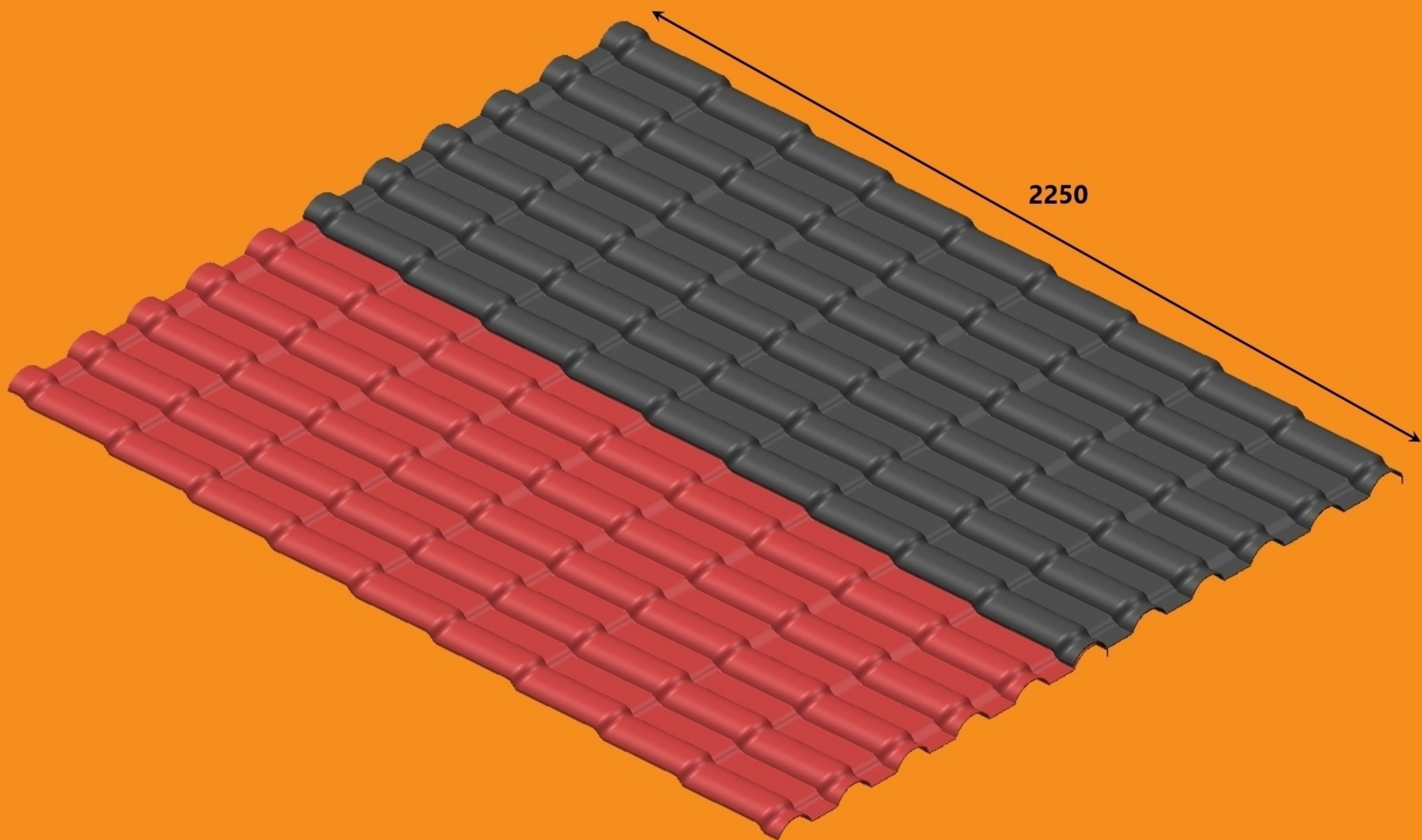
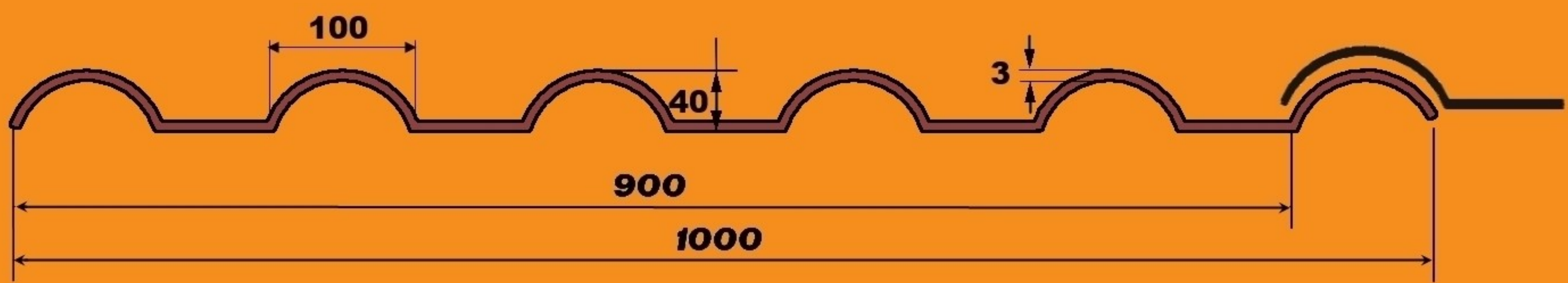
BLACK



RED

ROYALWAVE
1000-900-40

**ASA-PVC POLYMER ROOF TILE PANEL
WITH 100% UV PROTECTION**



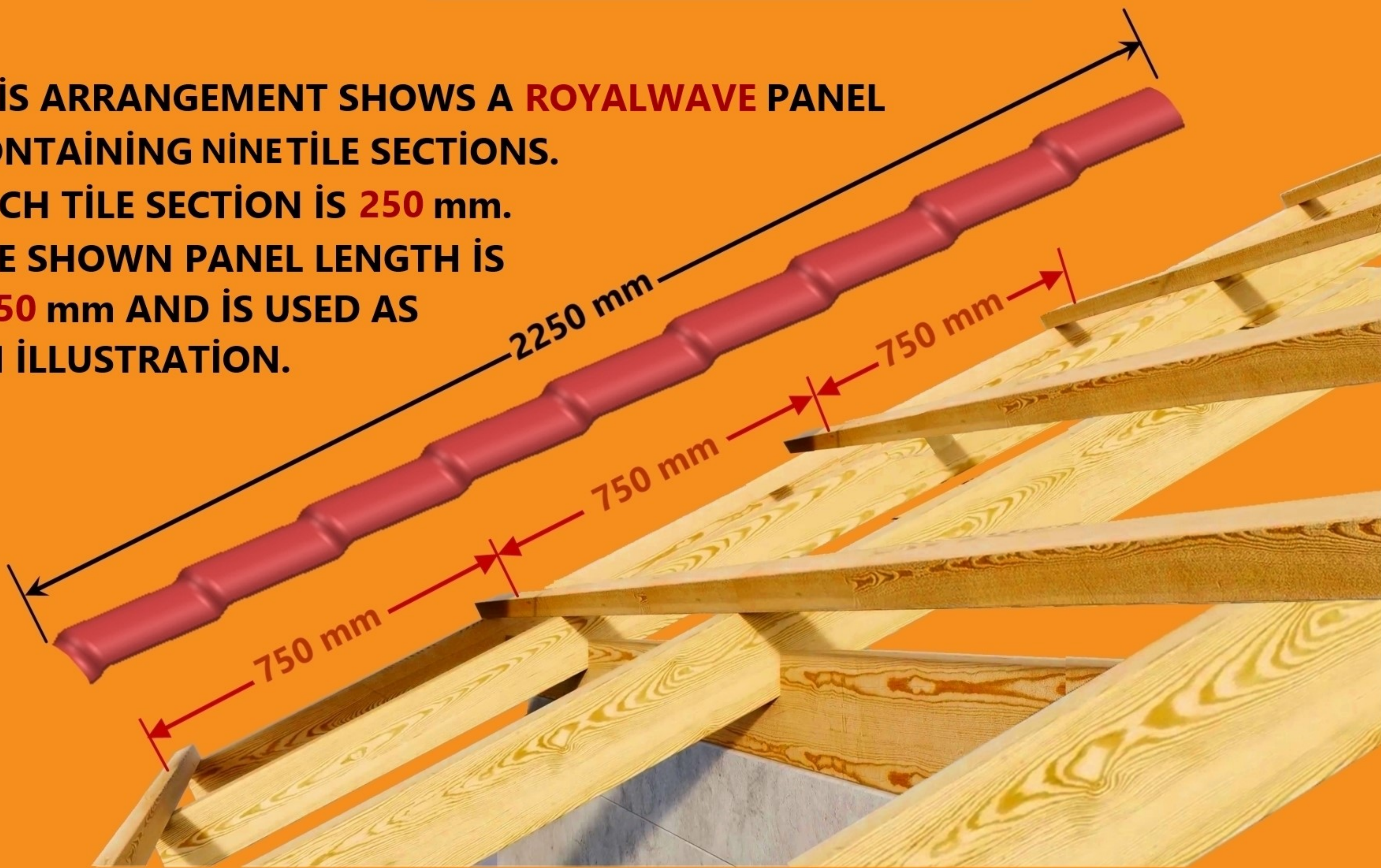
ROYALWAVE
1000-900-40

INSTALLATION TOOLS & SAFETY GEAR

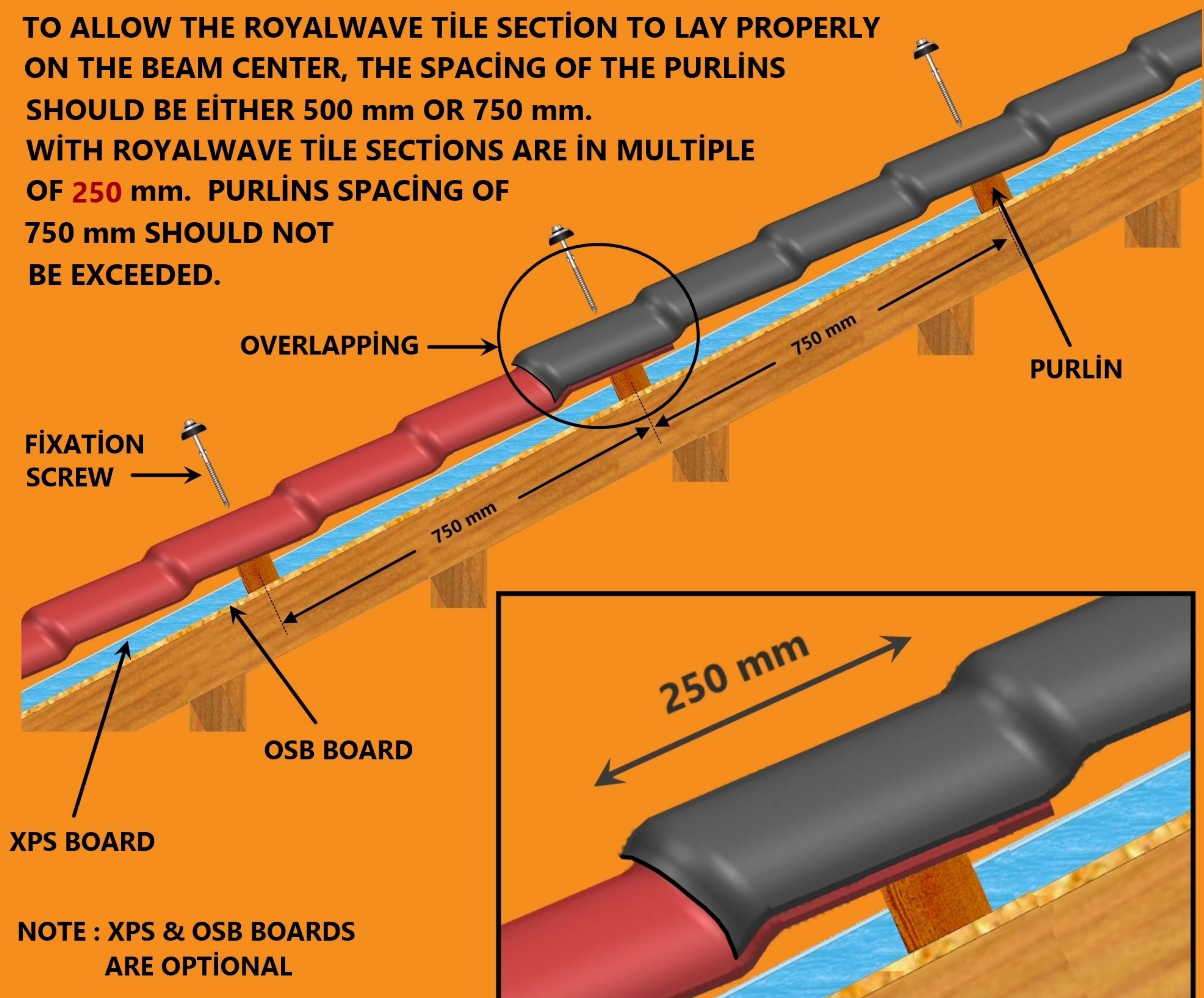


PURLINS ARRANGEMENT

THIS ARRANGEMENT SHOWS A **ROYALWAVE** PANEL CONTAINING NINE TILE SECTIONS. EACH TILE SECTION IS **250 mm**. THE SHOWN PANEL LENGTH IS **2250 mm** AND IS USED AS AN ILLUSTRATION.

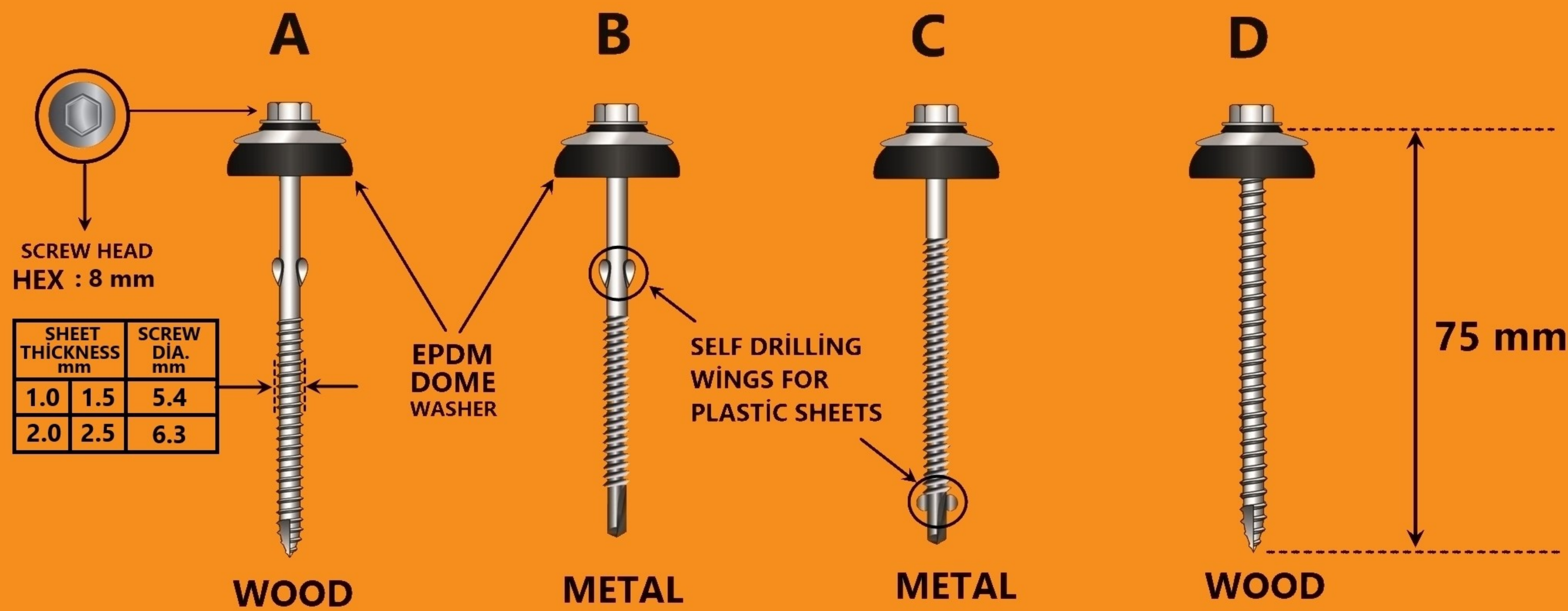


TO ALLOW THE ROYALWAVE TILE SECTION TO LAY PROPERLY ON THE BEAM CENTER, THE SPACING OF THE PURLINS SHOULD BE EITHER 500 mm OR 750 mm. WITH ROYALWAVE TILE SECTIONS ARE IN MULTIPLE OF **250 mm**. PURLINS SPACING OF 750 mm SHOULD NOT BE EXCEEDED.



MAGNIFIED VIEW

SCREWS
FIXATION TYPES



FOR SCREWS WITHOUT SELF DRILLING WINGS :
DRILL HOLE 2mm LARGER THAN
SCREW DIAMETER WITH DRILL BIT



INSERT APPROPRIATE SCREW WITH
RUBBER WASHER AND TIGHTEN

- IF THE ROOFING SCREWS WITH WINGS ARE NOT AVAILABLE IN YOUR MARKET:
- 1) DRILL A HOLE 2mm WIDER THAN THE DIAMETER OF THE SCREW
 - 2) INSERT THE STRAIGHT SCREW WITH THE RUBBER WASHER INTO THE HOLE
 - 3) TIGHTEN THE SCREW INTO THE ROOF STRUCTURE MODERATELY

ALWAYS USE THE CORRECT TYPE OF SCREWS
APPLY SCREW FROM TOP SIDE ONLY



ANTI-EXPANSION SCREWS WITH TOP WINGS
ARE RECOMMENDED

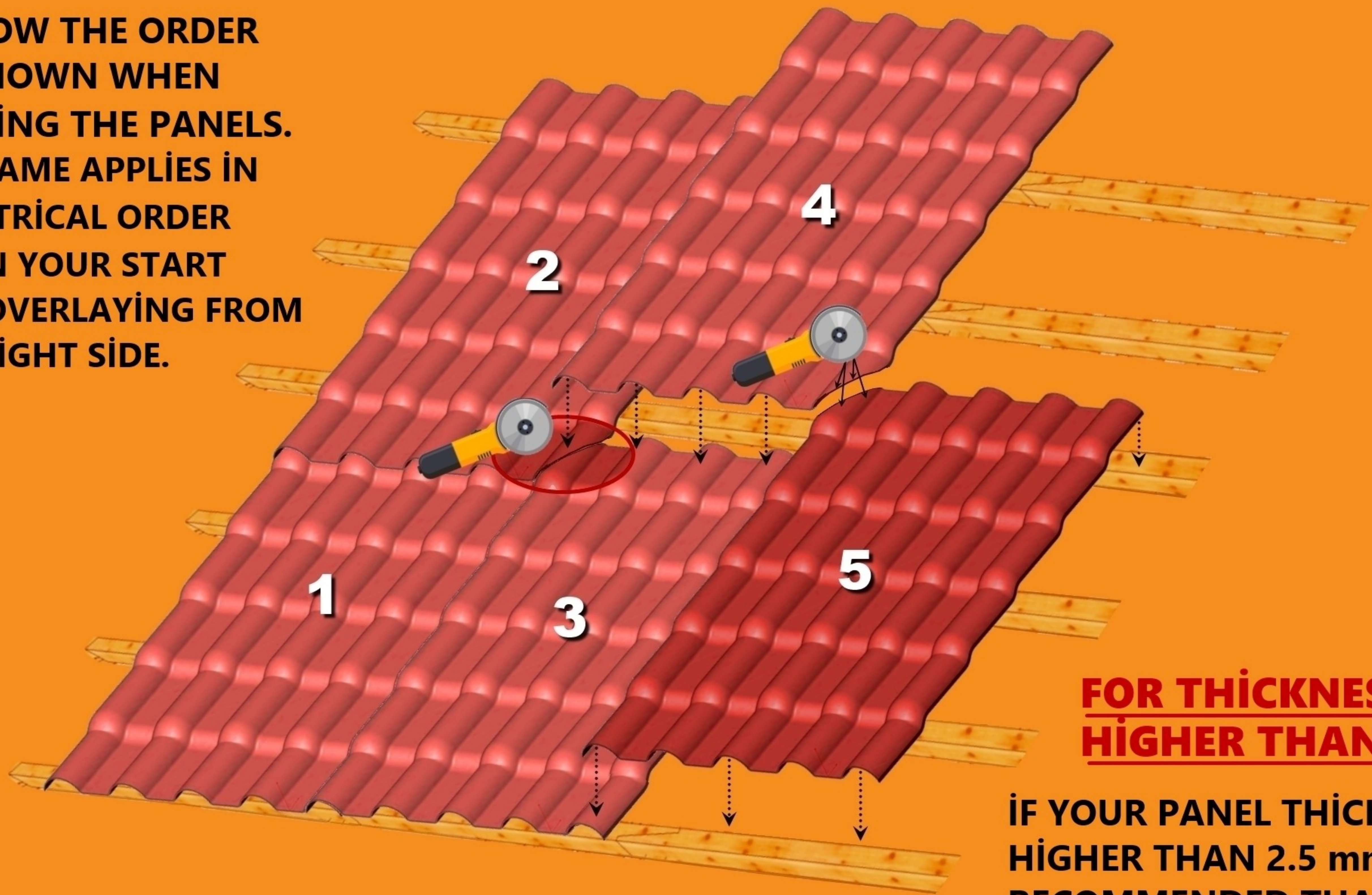


IMPORTANT NOTICE :
IF THE SCREWS ARE FIXED ON THE WATERWAY OF THE PANEL THE WARRANTY WILL BE VOID

PANEL PLACEMENT DIAGRAM

OVERLAYING

FOLLOW THE ORDER
AS SHOWN WHEN
PLACING THE PANELS.
THE SAME APPLIES IN
SYMETRICAL ORDER
WHEN YOUR START
THE OVERLAYING FROM
THE RIGHT SIDE.

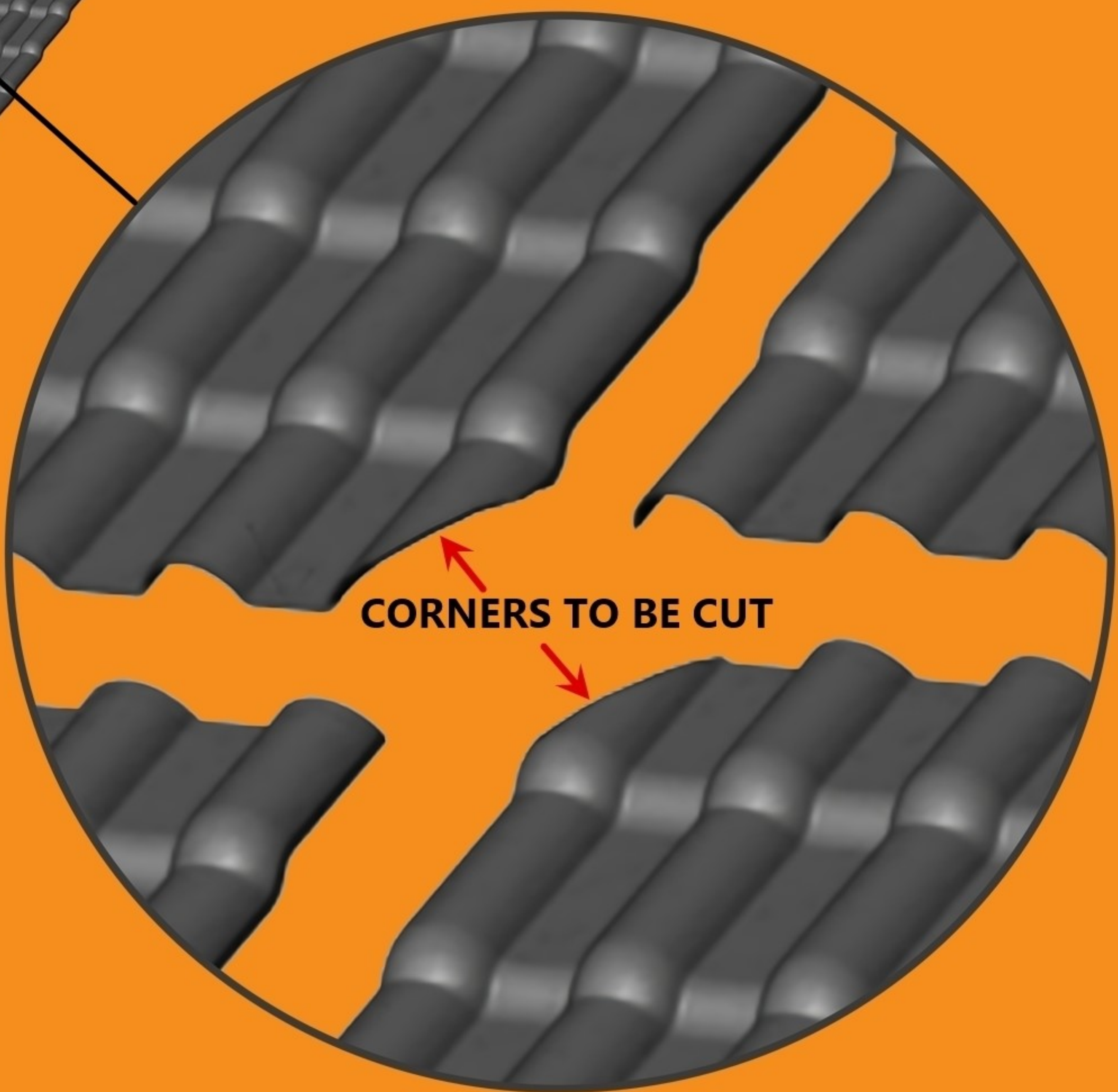
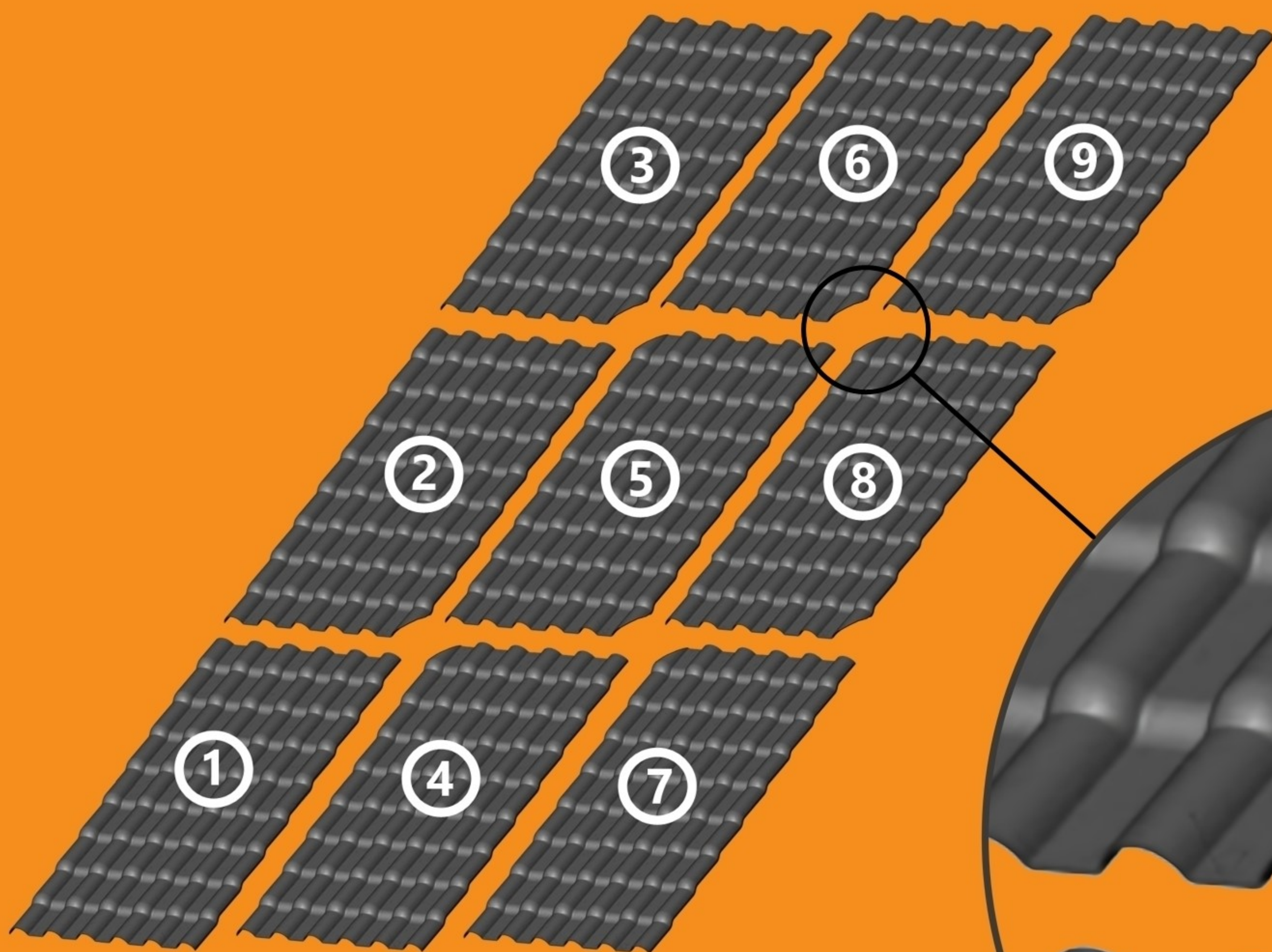


**FOR THICKNESSES
HIGHER THAN 2.5 mm**

IF YOUR PANEL THICKNESS IS
HIGHER THAN 2.5 mm IT IS
RECOMMENDED THAT CORNERS
ARE CUT AT LOCATIONS WHERE
3 PANELS HAVE TO BE OVERLAYED
ONE ON THE TOP OF EACH OTHER

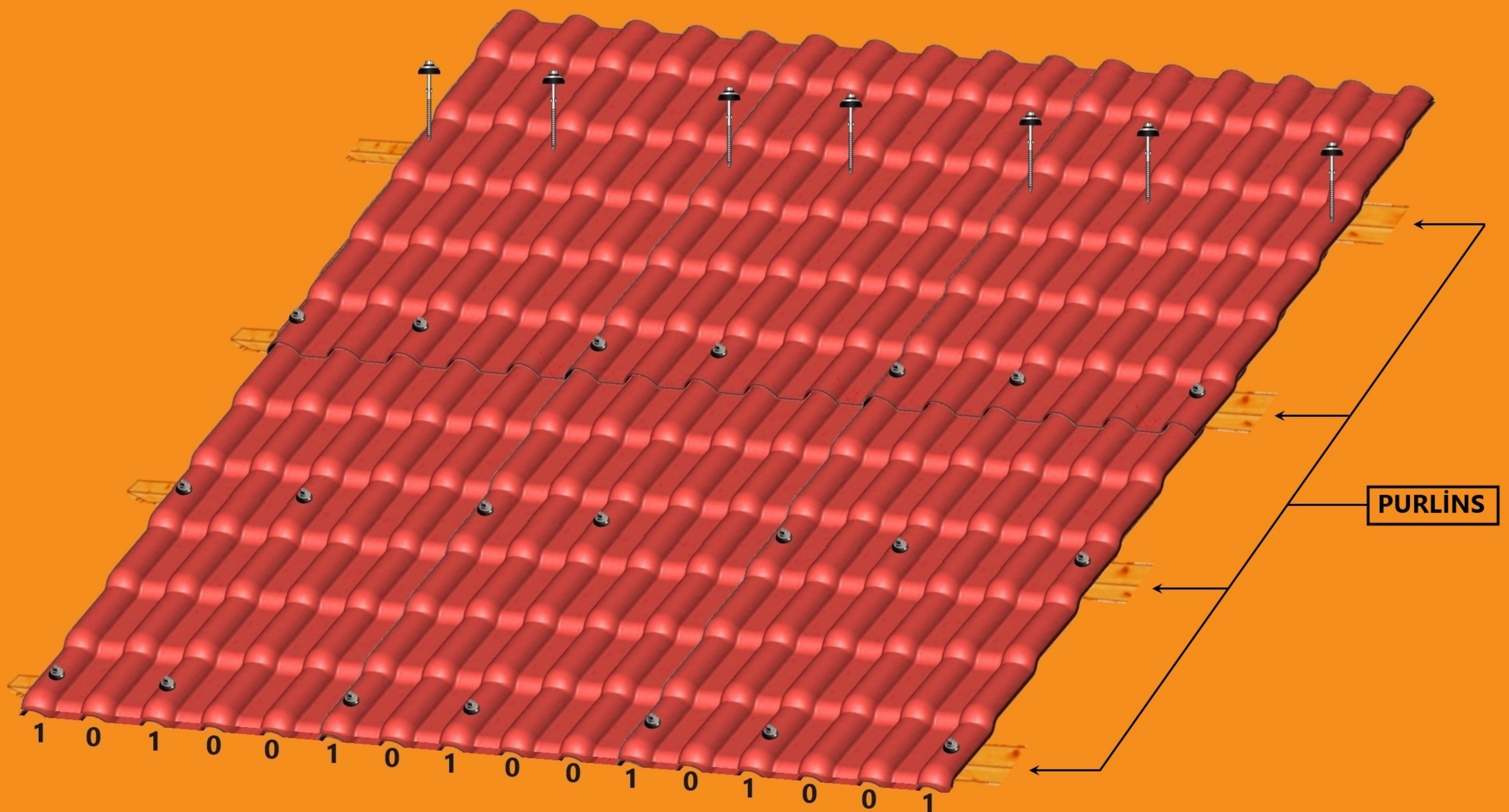
FOLLOWING THE OVERLAYING ORDER
THE CORNERS TO BE CUT ARE SHOWN
IN THE DIAGRAM ON THE LEFT.

OVERLAYING ORDER



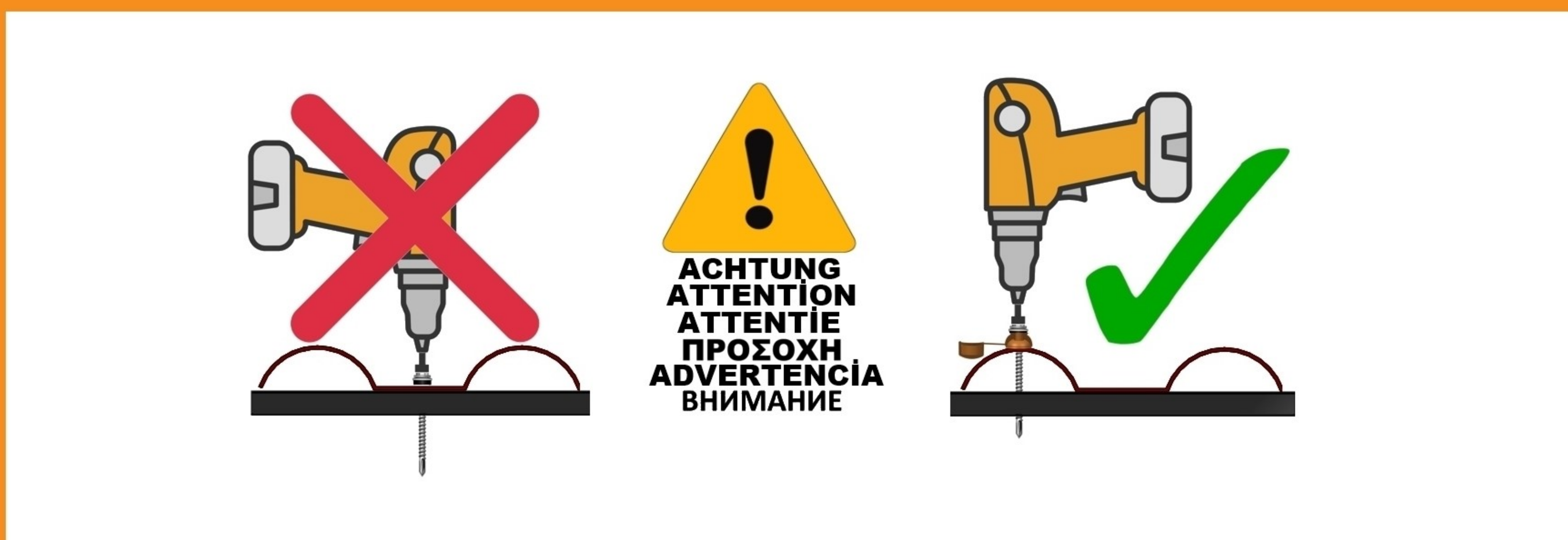
MAGNIFIED VIEW

SCREW POSITIONS



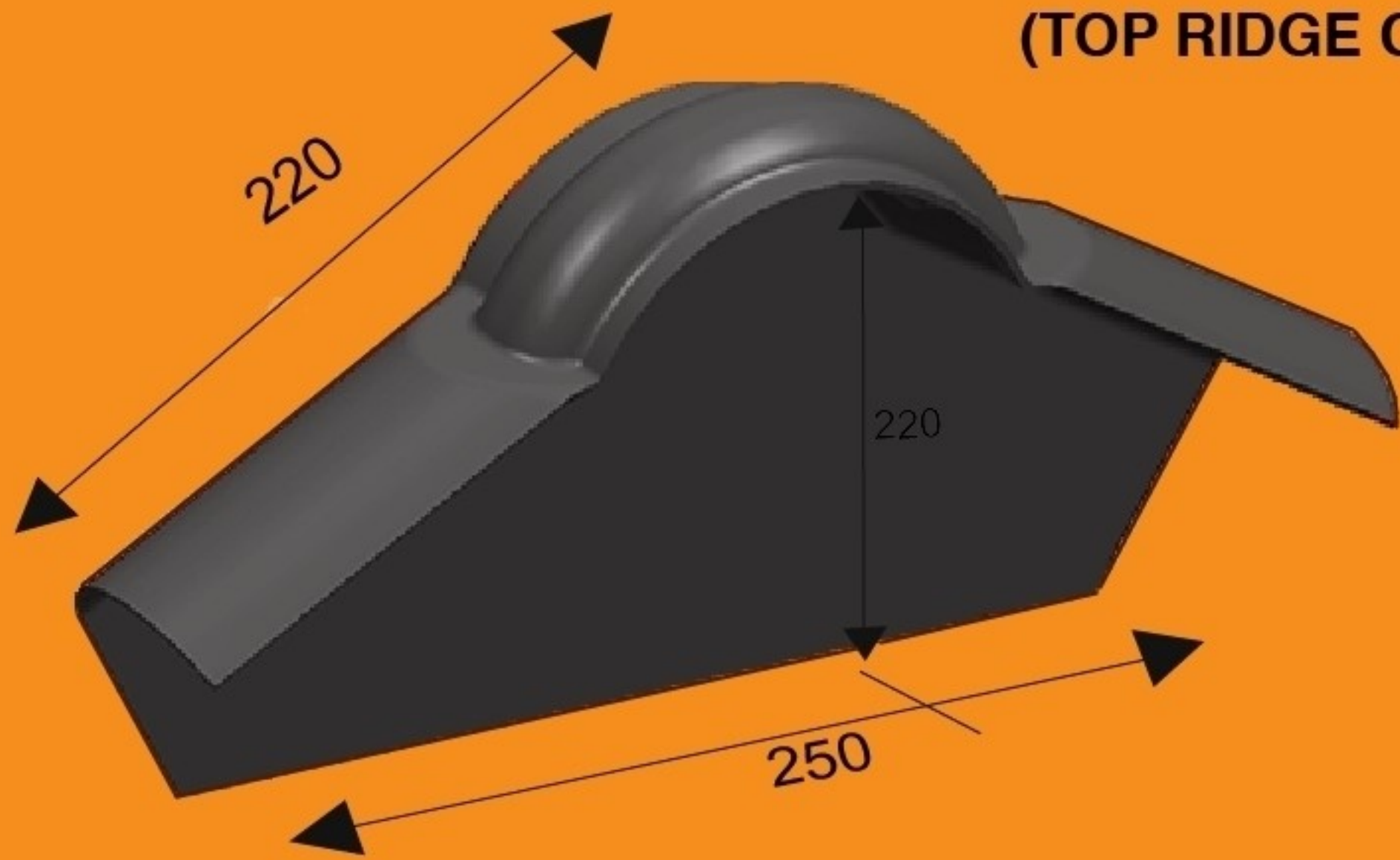
TYPICAL SCREW POSITIONING IS SHOWN IN ABOVE DRAWING

SCREW FIXATION FROM TOP ONLY

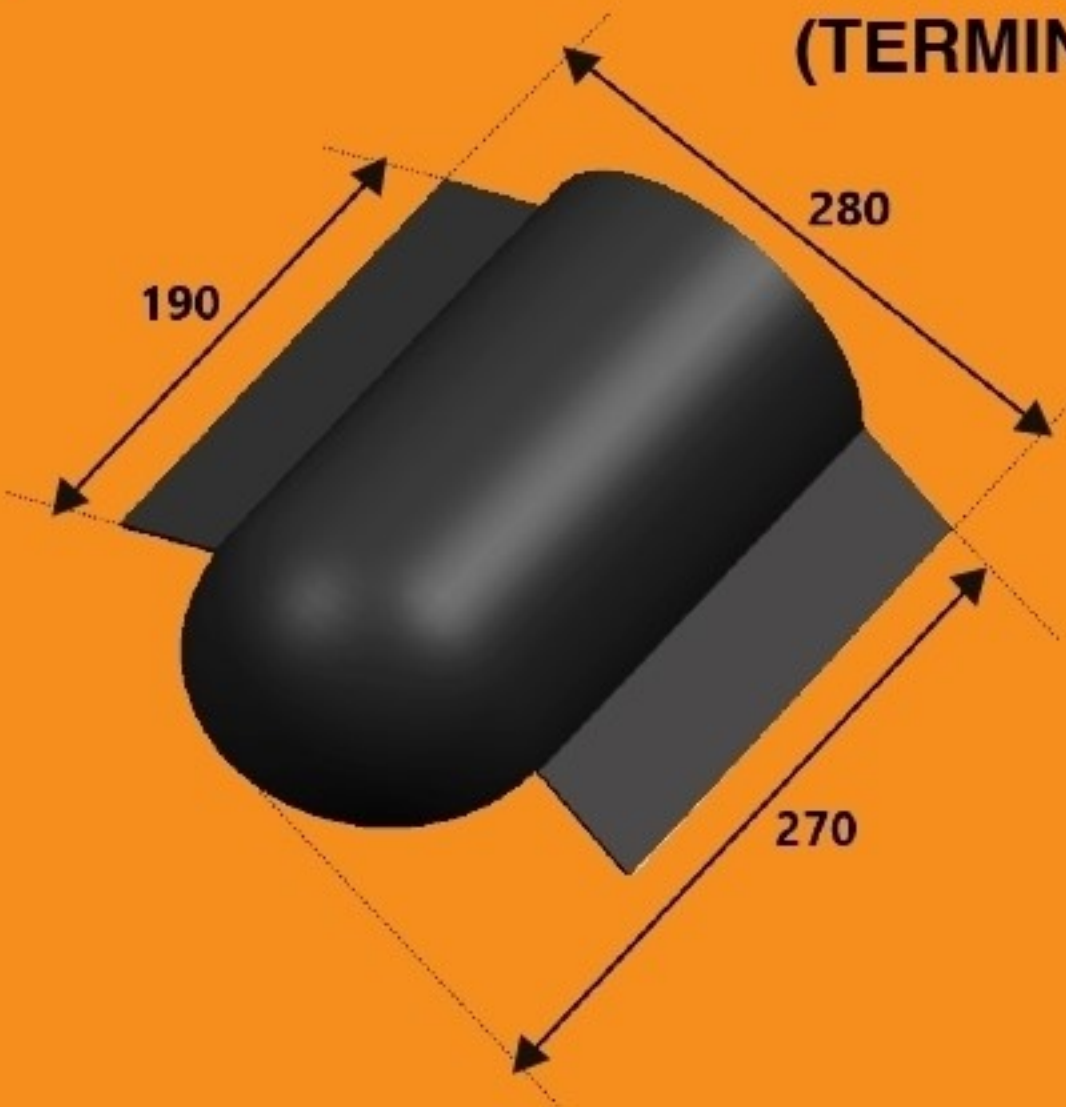


SCREW MUST BE FIXED FROM THE TOP OF THE CORRUGATION
FIXING ANY SCREW ON THE WATERWAY IS STRICTLY PROHIBITED

TRC - ROYAL
(TOP RIDGE COVER)



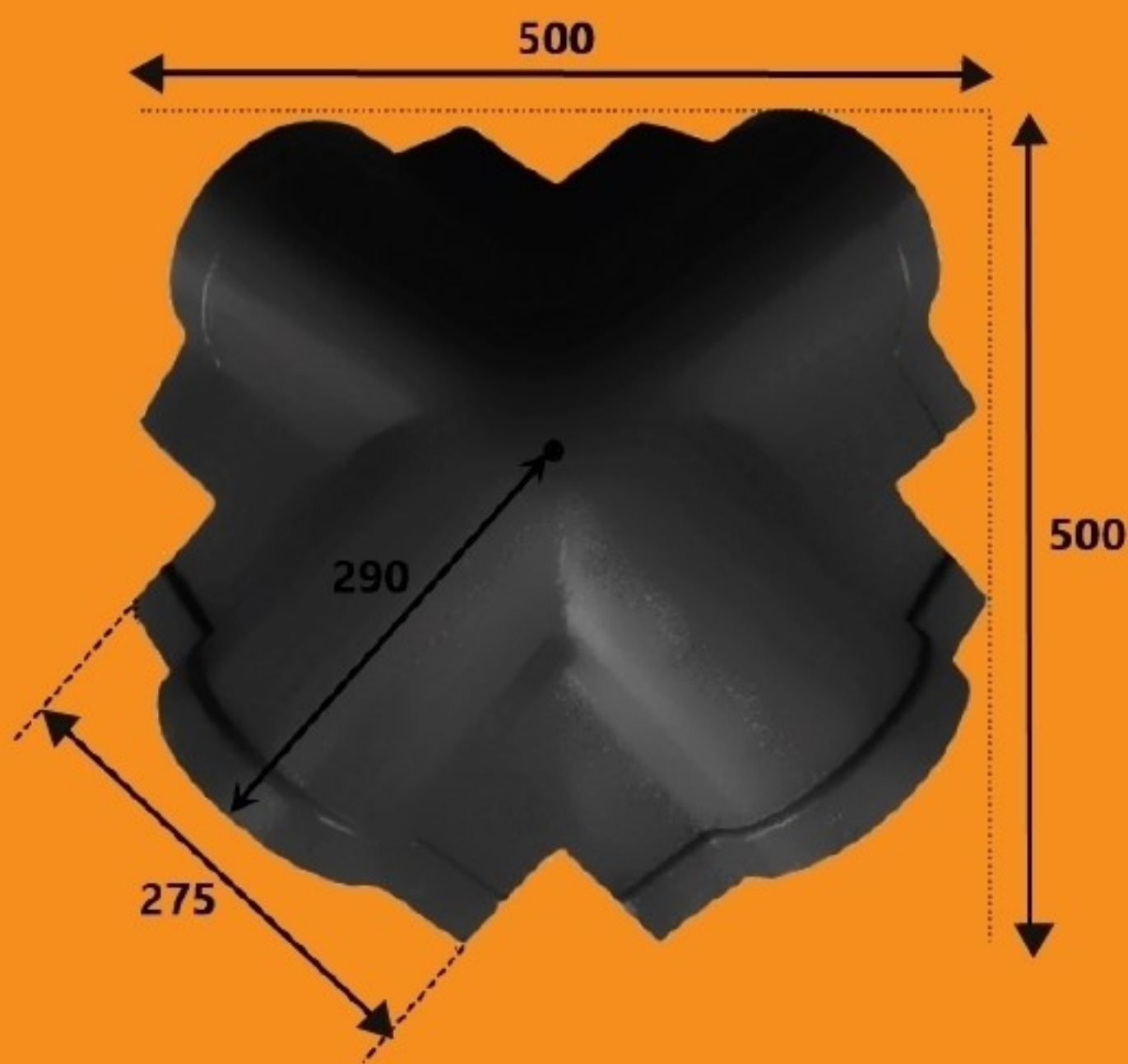
TDE - HYBRID
(TERMINAL END CAP)



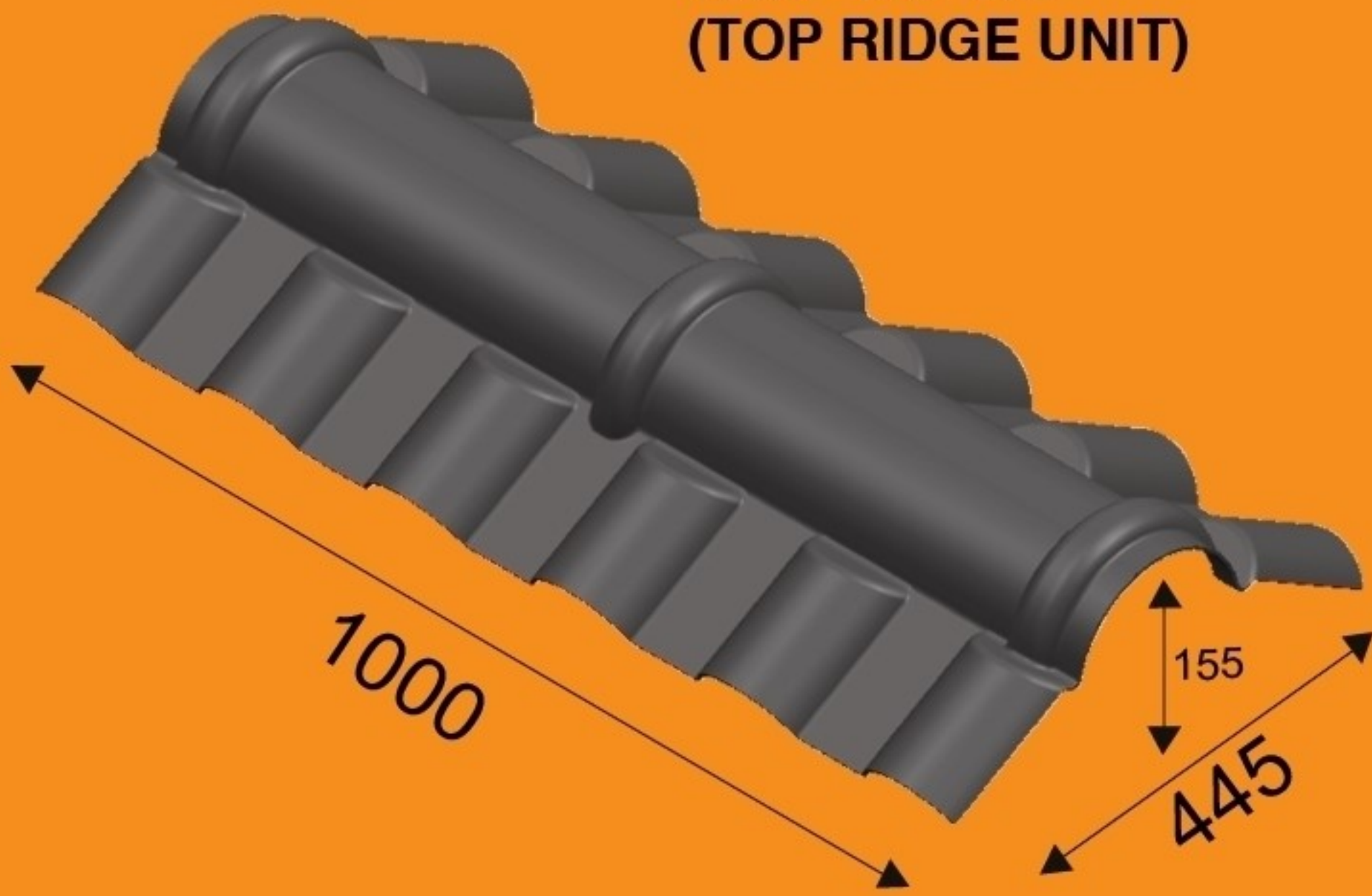
ECR - ROYAL
(EAVE CLOSING RIDGE)



FWR - HYBRID
(FOUR WAY RIDGE)



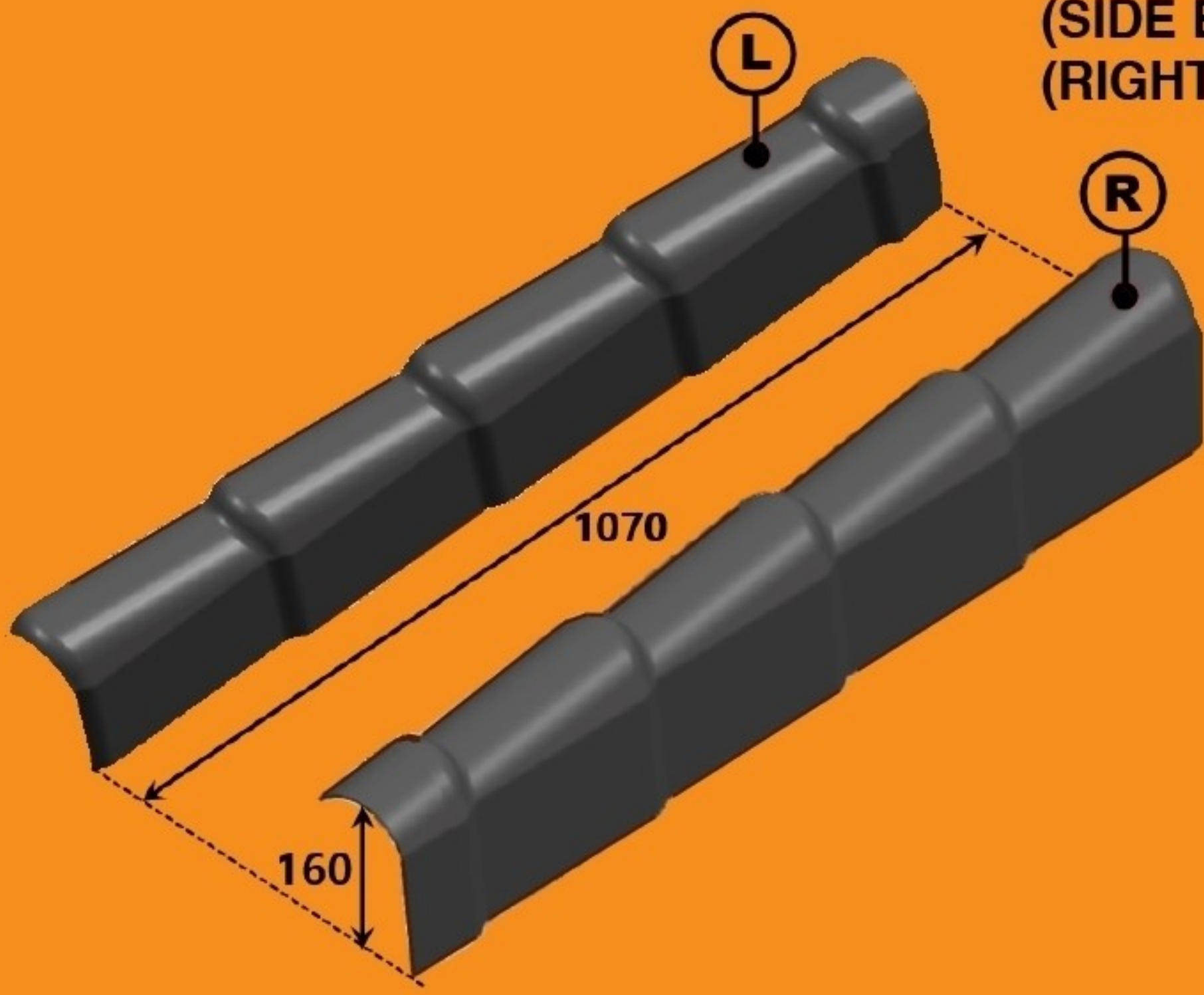
TRU - ROYAL
(TOP RIDGE UNIT)



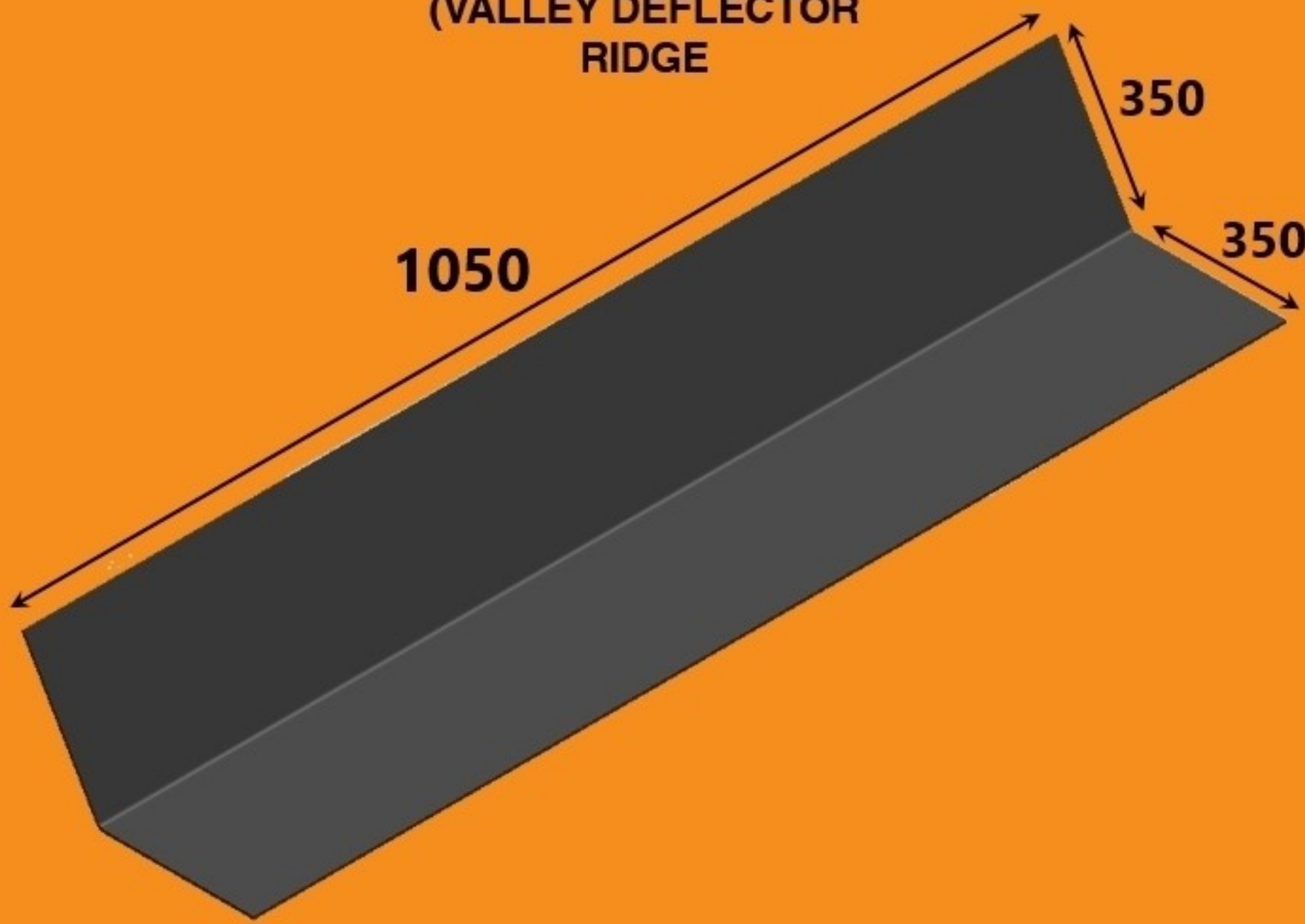
DRH - HYBRID
(DIAGONAL HIP RIDGE)



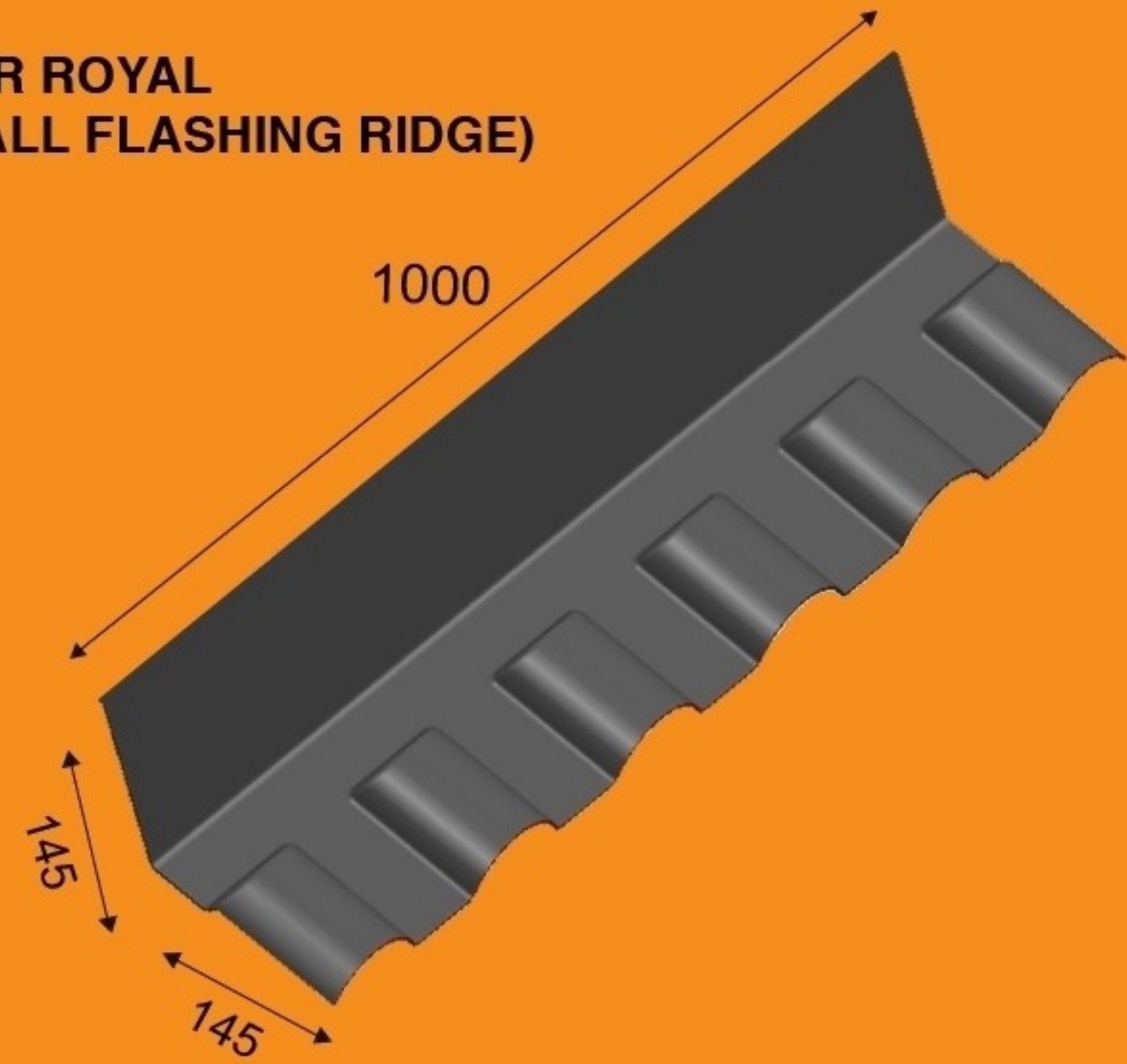
SCR / SCL ROYAL
(SIDE END COVER)
(RIGHT & LEFT)



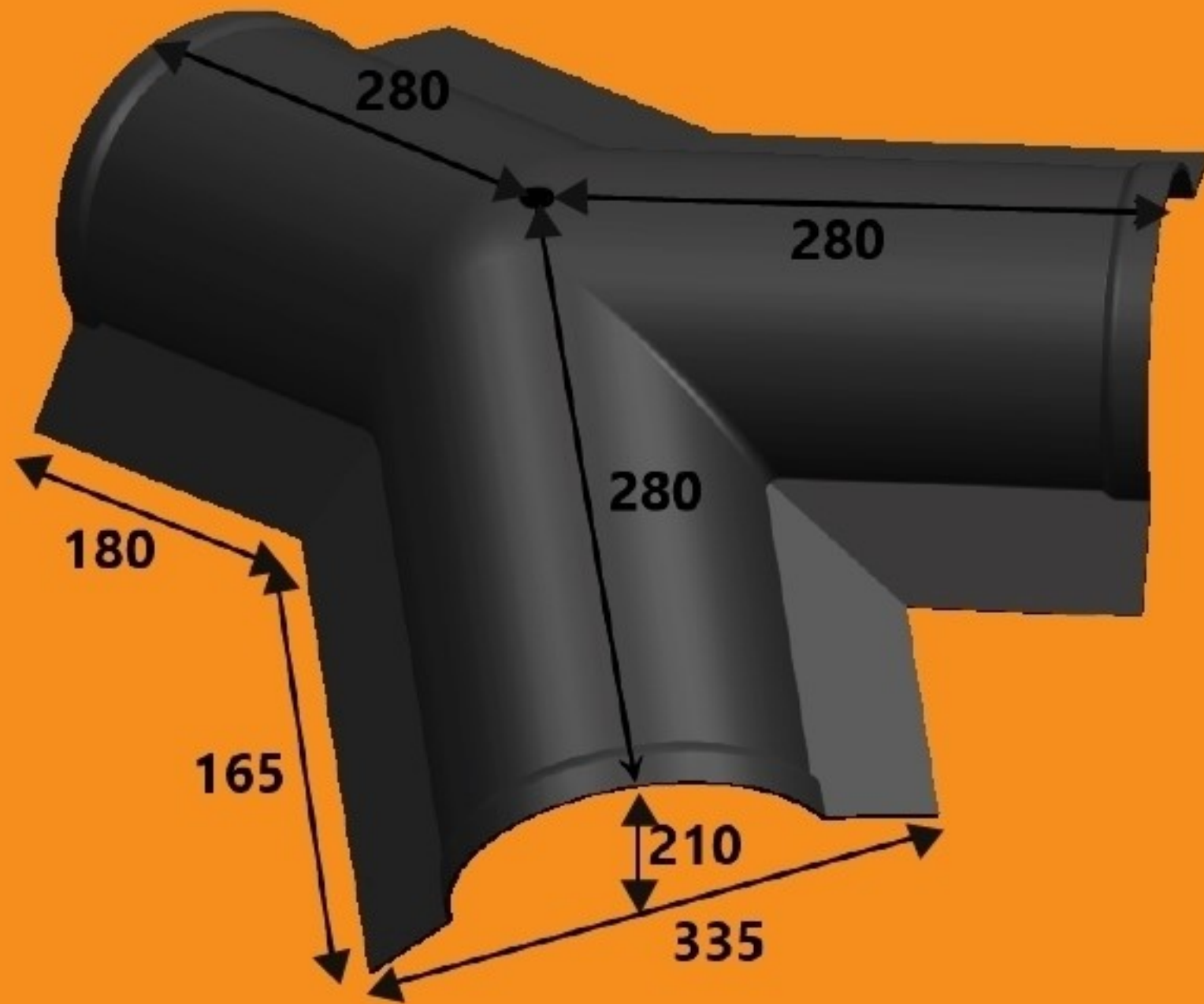
VDR UNIVERSAL
(VALLEY DEFLECTOR
RIDGE)



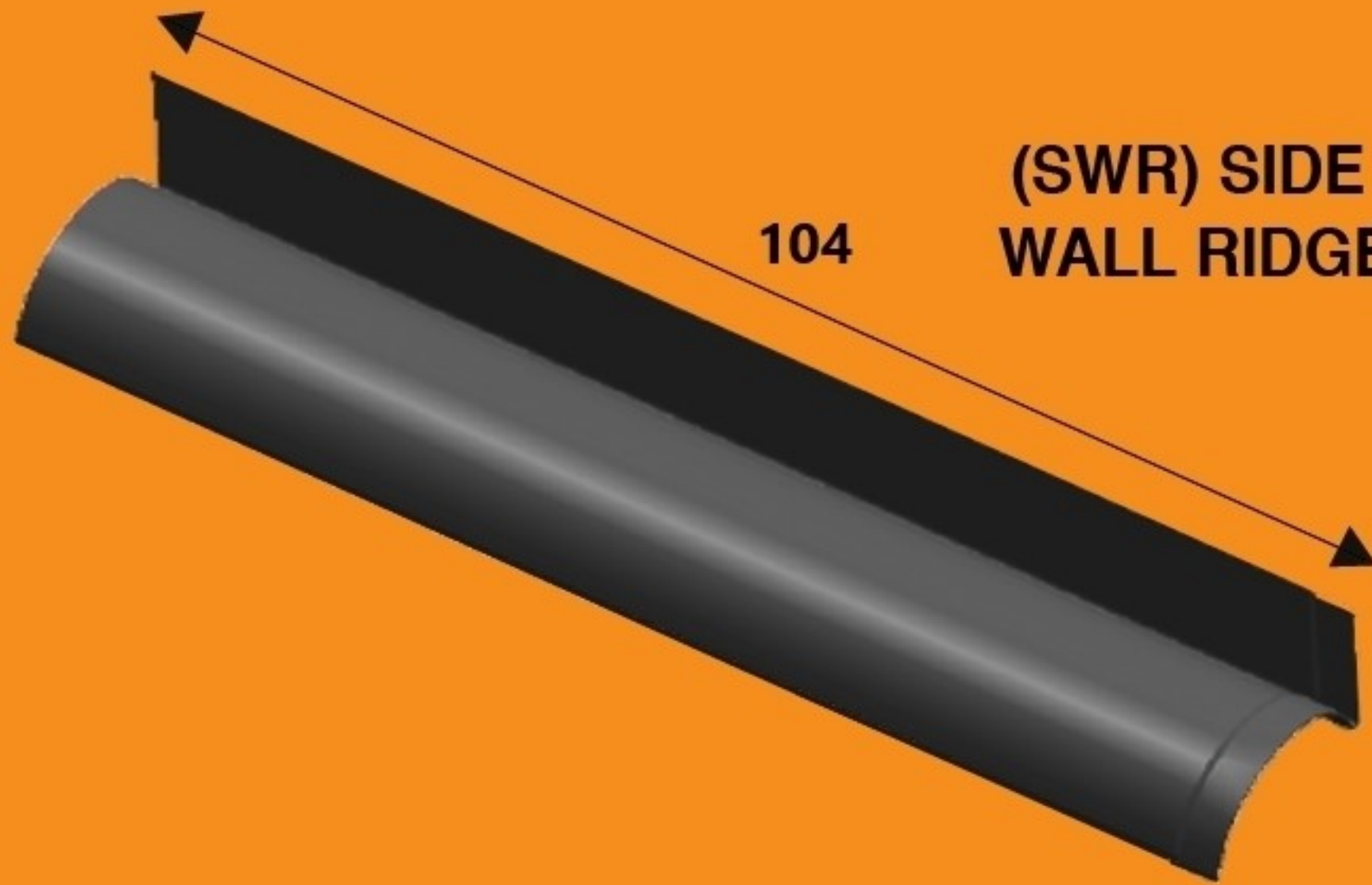
WFR ROYAL
(WALL FLASHING RIDGE)



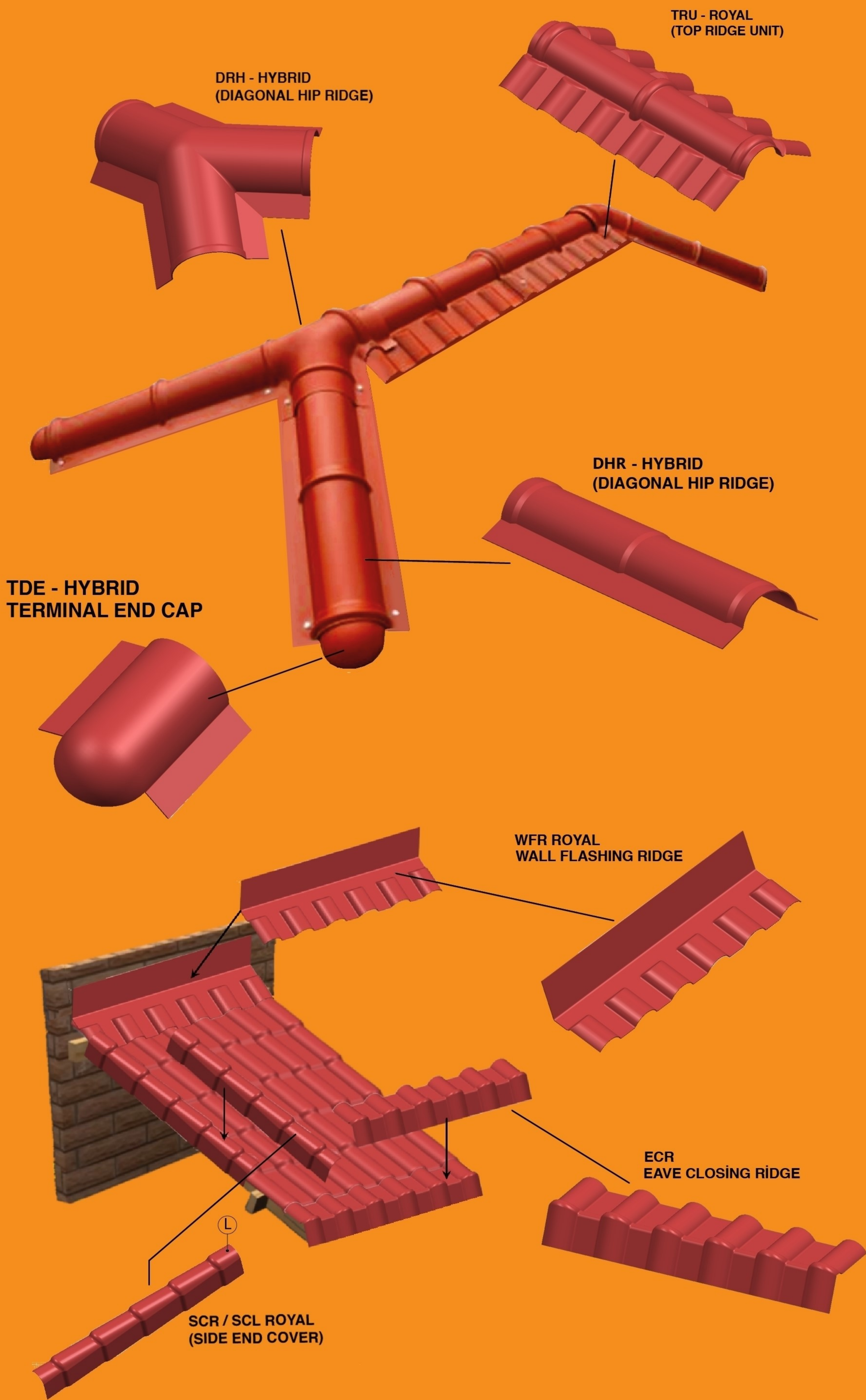
TWR - HYBRID
(THREE WAY RIDGE)



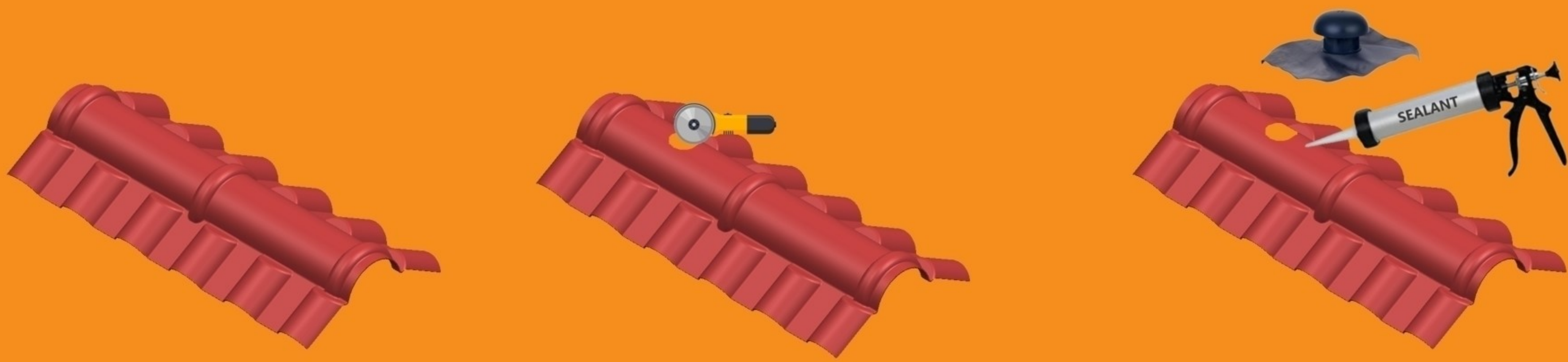
(SWR) SIDE
WALL RIDGE



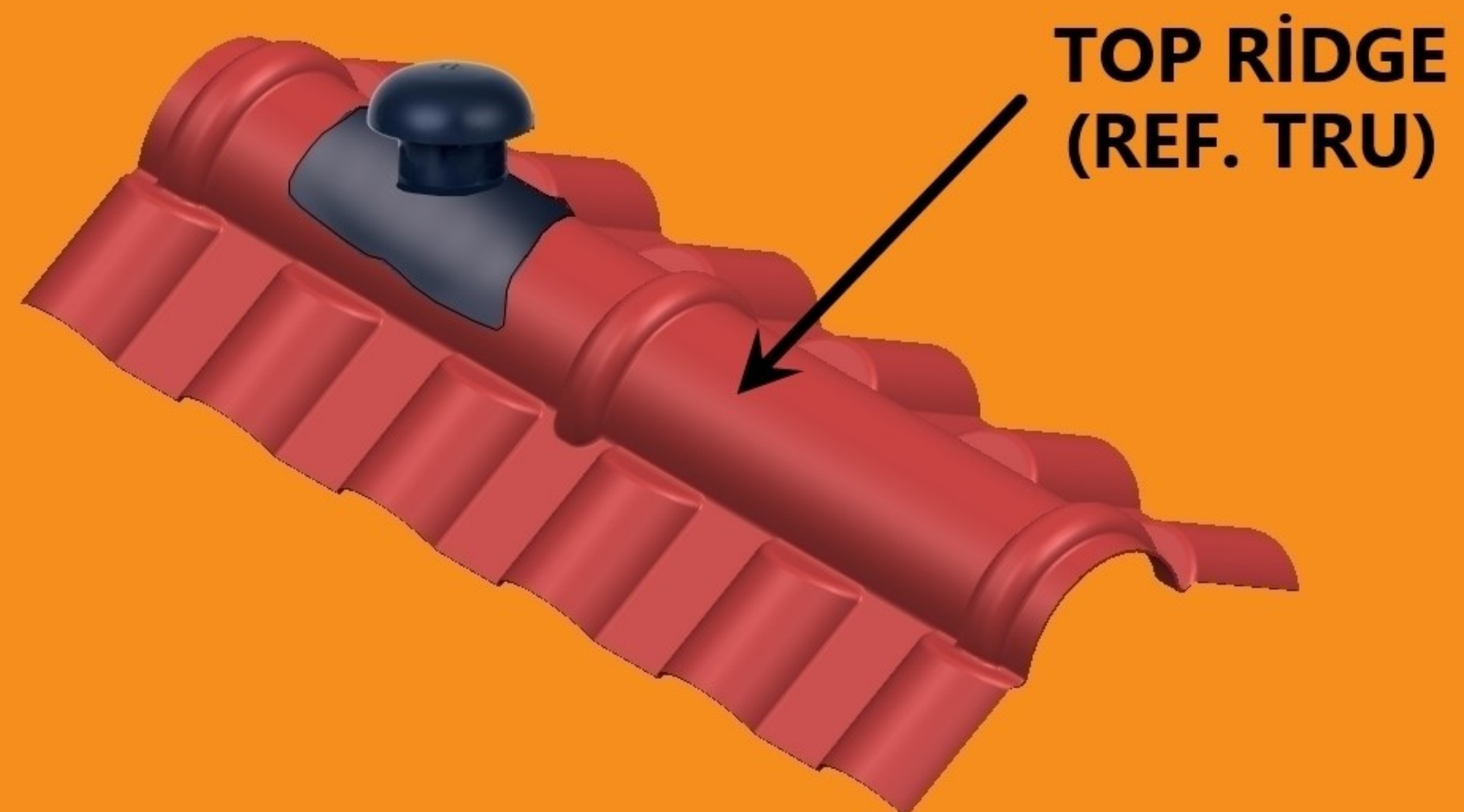
APPLICATION OF TILE RIDGES



AIR CIRCULATION

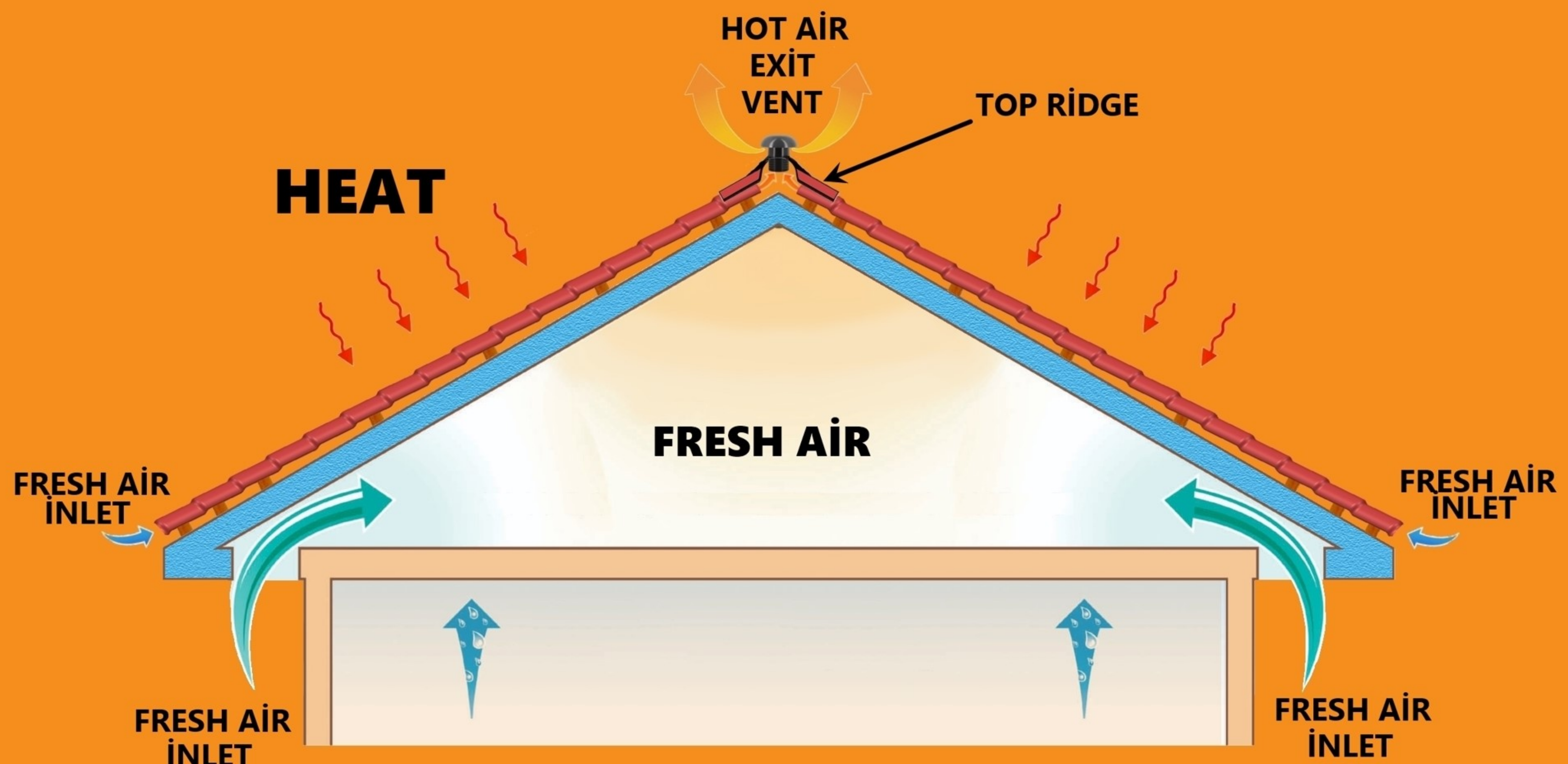


INSTALL A PLASTIC AIR VENT PIPE (DIA. 80 mm) ON THE TOP RIDGE BY DRILLING A HOLE OF 80 mm FOR EVERY 4 METERS OF ROOF LENGTH.



AIR CIRCULATION UNDER THE ROOF PANELS

A GOOD AIR CIRCULATION UNDER THE ROOF SHEET IS VERY IMPORTANT. HOT AIR ALWAYS RISES TO THE SUMMIT OF THE ROOF STRUCTURE AND MUST HAVE AN EVACUATION ROUTE TO EXIT TO THE ATMOSPHERE. WHEN WARM AIR STAGNATES IT OVERHEATS. THIS CAN AFFECT NEGATIVELY THE SHEET AND MAY CAUSE DEFORMATION. A GOOD VENTILATION IS THE SOLUTION .



A GOOD AIR CIRCULATION IS VERY IMPORTANT TO AVOID ANY HOT AIR ACCUMULATION UNDER THE PANELS. THE BUILDING UP OF HOT AIR TRAPPED UNDER THE PANELS MAY CAUSE UNWANTED DAMAGES SUCH AS PANEL DEFORMATION IN CASE A SUDDEN COOLING OCCURS AT THE SURFACE AFTER A TORRENTIAL RAIN FALL WHILE THE SHEET IS STILL TOO HOT. TO AVOID THIS PHENOMANA, A GOOD AIR CIRCULATION MUST BE PROVIDED.

ROOF SLOPES

RECOMMENDED

NOT RECOMMENDED



ROOFING INSTALLATORS ARE KINDLY REQUESTED TO ABIDE BY THE ROOF SLOPE ANGLES RECOMMENDED ABOVE AND PROVIDE A GOOD AIR CIRCULATION TO VENT OUT THE HOT AIR UNDER THE ROOF

CANNOT BE USED FOR HIDDEN ROOFS
NOT SUITABLE FOR FLAT ROOFS AND
ROOFS WIRTHOUT AIR CIRCULATIONS



DUE TO THEIR LOW SLOPES, HIDDEN ROOFS LACK GOOD AIR CIRCULATION BENEATH THE PANELS. THIS MAY INDUCE DEFORMATIONS.

ROYALWAVE
1000-900-40

 **IZOPLAST**[®]
HITECH PANEL



IZOTILE[®]