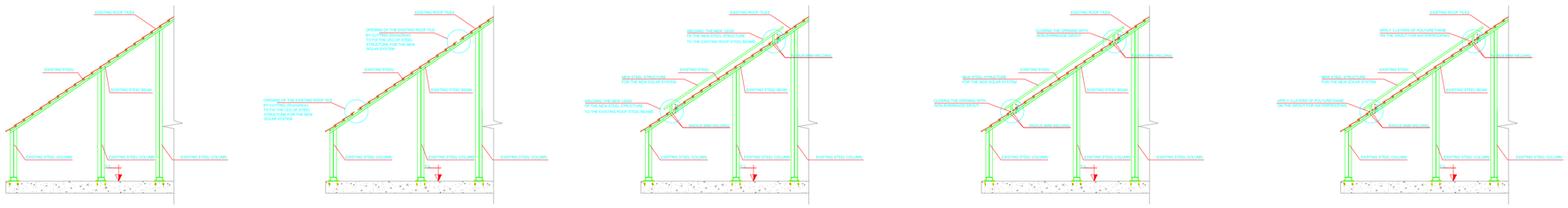
SOLAR SYSTEM ON EXISTING STEEL STRUCTURE



SECTION ON EXISTING STEEL STRUCTURE ROOF

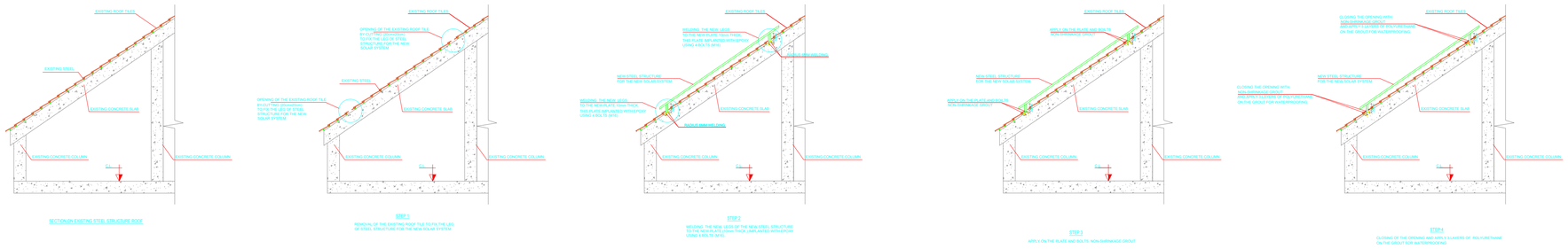
STEP 1
REMOVAL OF THE EXISTING ROOF TILE TO FIX THE LEG OF STEEL STRUCTURE FOR THE NEW SOLAR SYSTEM

STEP 2
WELDING THE NEW LEGS OF THE NEW STEEL STRUCTURE TO THE EXISTING ROOF STEEL BEAMS

STEP 3
CLOSING THE OPENING WITH NON-SHRINKAGE GROUT

STEP 4
APPLY 3 LAYERS OF POLYURETHANE ON THE GROUT FOR WATERPROOFING

SOLAR SYSTEM ON EXISTING CONCRETE SLAB



SECTION ON EXISTING STEEL STRUCTURE ROOF

STEP 1
REMOVAL OF THE EXISTING ROOF TILE TO FIX THE LEG OF STEEL STRUCTURE FOR THE NEW SOLAR SYSTEM

STEP 2
WELDING THE NEW LEGS OF THE NEW STEEL STRUCTURE TO THE NEW PLATE (10mm THICK) IMPLANTED WITH EPOXY USING 4 BOLTS (M16)

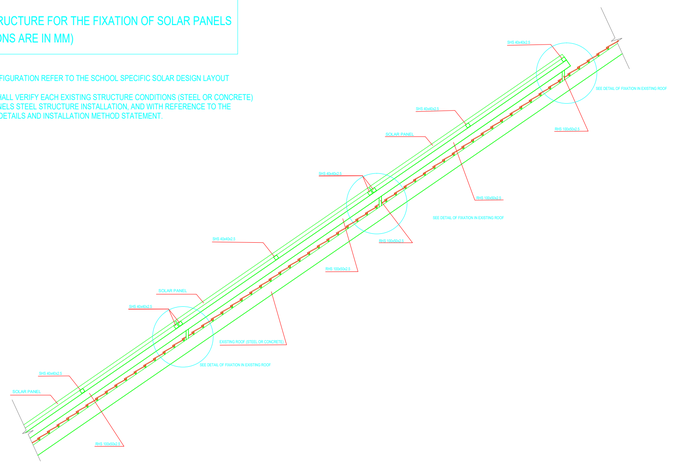
STEP 3
APPLY ON THE PLATE AND BOLTS NON-SHRINKAGE GROUT

STEP 4
CLOSING OF THE OPENING AND APPLY 3 LAYERS OF POLYURETHANE ON THE GROUT FOR WATERPROOFING

STEEL STRUCTURE FOR THE FIXATION OF SOLAR PANELS (DIMENSIONS ARE IN MM)

FOR EXACT CONFIGURATION REFER TO THE SCHOOL SPECIFIC SOLAR DESIGN LAYOUT

CONTRACTOR SHALL VERIFY EACH EXISTING STRUCTURE CONDITIONS (STEEL OR CONCRETE) PRIOR TO PV PANELS STEEL STRUCTURE INSTALLATION, AND WITH REFERENCE TO THE ABOVE TYPICAL DETAILS AND INSTALLATION METHOD STATEMENT.



NOTES:

LEGEND:

REVISIONS:

REVISION NO.	DESCRIPTION	DATE
0	ISSUED FOR EXECUTION	05-05-23

CONSULTANT:

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CLIENT:

GIZ

PROJECT DESCRIPTION:

BRICK ROOF PV SYSTEM

DRAWING TITLE:

TYPICAL STEEL STRUCTURE DESIGN

PROJECT PHASE:	DRAWING SCALE:	DRAWING DISCIPLINE:
EXECUTION	NTS	STRUCTURAL