

SPECIFICATION FOR 'PRE-COATED CORRUGATED ROOFING/CLADDING SHEET' AND 'PRE-COATED PLAIN SHEET':

001. CORRUGATED PROFILE SHEET SIZE	0.75X1000XL	-	L & QTY AS PER ENQUIRY
002. PLAIN SHEET FOR RIDGES	0.75XWX1250	-	W & QTY AS PER ENQUIRY
003. PLAIN SHEET FOR CORNER/BARGE	0.75XWX1250	-	W & QTY AS PER ENQUIRY
004. PLAIN SHEET FOR RIDGES	0.75XWX2500	-	W & QTY AS PER ENQUIRY
005. PLAIN SHEET FOR CORNER/BARGE	0.75XWX2500	-	W & QTY AS PER ENQUIRY

Metal cladding:

The cladding shall consist of a single skin construction and comprising the following:

Profile: trapezoidal profile min. 0.75 mm thick.

The sheeting unit shall be a mult-layer, protected metal system consisting of a trapezoidal galvanized steel substrate, heavy epoxy base coat and a high build weather coat of polyurethane as follows:

Substrate:

The steel substrate shall be min. 0.75mm thick, Min Yield 450MPa as per ASTM A653/A653M.

Painting details:

A1- Hot-dipped galvanized as per ASTM A653/A653M, with a minimum zinc coating weight of 275GSM total each on both sides. Pre-treatment: After cleaning, a "chemical conversion" of the zinc coating to a non-metallic surface with corrosion inhibiting and adhesion additives shall be applied.

A2- Primer: Nominal 8-micron thick anti-corrosive pigmented epoxy primer applied to both sides of the sheet.

A3- Epoxy barrier coat: Nominal 70-micron thick TF epoxy barrier coat with special flexibilizer compounds applied to both sides of the sheet and baked to a hard corrosion resistant finish.

A4- External weather coat: Nominal 40 micron thick urethane exterior coating pigmented in one of the standard colors of the manufacturer's color range.

B1- Internal decorative coat: Nominal 20 micron stoving polyester decorative finish.

Color Coating (As per ASTM A755/A755M or any equivalent international Standard):

- * Exposed Surface: RAL5012
- * Inner Surface: RAL9002

**Exposed Surface shall be covered with protective film.

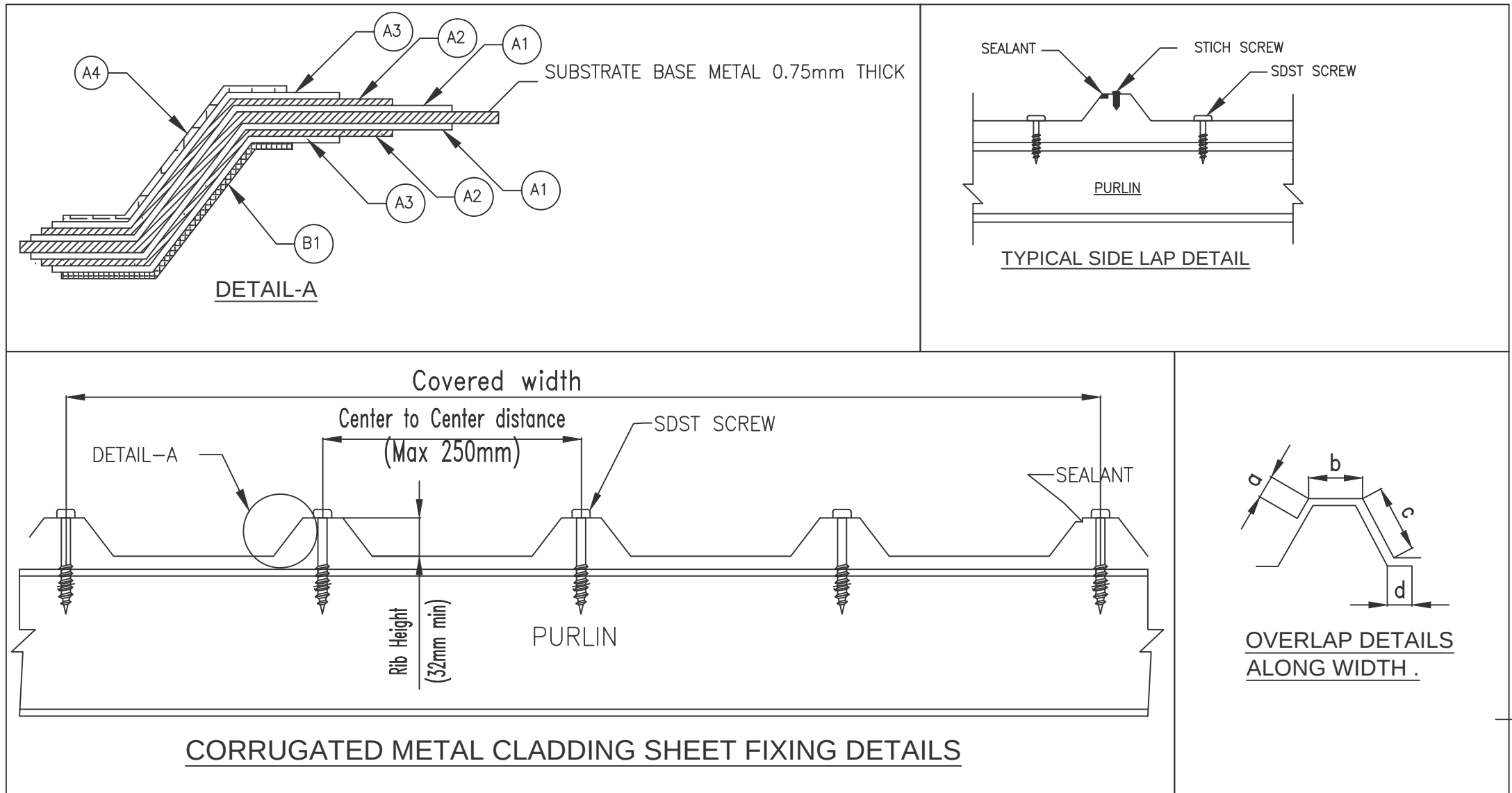
Salient Points to be addressed by Vendors:

- Bidder has to give a cross section sketch of trapezoidal sheet as per specification.
- Model steel arrangement for various details such as vertical, horizontal, corner, overlapping and suggested arrangement etc. has to be shown.
- The required screw size and quantity of screws per sheet has to be mentioned including a sketch by vendor or supplier.
- Bidder should ensure the supply of plain sheet, ridge piece and corner/barge board with same specification as trapezoidal sheet.
- Bidder should match the dimension/profile of trapezoidal sheet, ridge piece and barge board as per the drawing.
- Bidder has to provide profile and fixing details of Trapezoidal sheet along with design calculation for Engg. Approval.
- Vendor should facilitate site by supplying suitable sizes of trapezoidal sheets with proper overlap. The sizes mentioned in the drawing is without 'width overlap'. Bidder's rate shall be inclusive of the 'width overlap' and shall supply the sheet with 'width overlap'. Payment will be done based on 'covered width' of the sheet only(i.e. without considering 'width overlap').
- The plain sheets mentioned herewith are for ridge pieces and corner/barge boards. Bidder may have to bend the same at their shops to the required shape and supply to site. The required shape of the same will be confirmed/informed during contract stage.

REV	DATE	ALTERED		
		CHECKED		
ZONE				

Load details for which sheeting to be designed:

- Purlin Spacing - 1450mm.
- Deflection criteria - L/250.
- Live load - 1.5KN/SQM.
- Wind load - 5.0 KN/SQM.



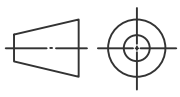
Roofing Sheet Dimensions:

Minimum Covered width excluding the overlap on both sides is 930mm and Maximum covered width excluding the overlap on both sides is 1000mm (Covered width as per indent is 1000mm. If different width - other than 1000mm - is proposed, the number of sheets shall be increased to match the total sheet area as per indent)

Length of the roofing sheet - L (this is overall length of sheet, no need to consider overlap extra)

Min overlap in width - 75mm for fixing

Vendor shall provide the values of a,b,c and d for calculating the required overlap.

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT									
 BHARAT HEAVY ELECTRICALS LTD., UNIT: BOILER AUXILIARIES PLANT. RANIPET - 632 406.				DRN	NAME Adarsh	SIGN	DATE 04.08.2020	NO.OF VAR.	
				CHD	Felix/Mahen		04.08.2020	-	
				APPD	K.B.Padhi		04.08.2020		
DEPT AQCS	GRADE OF UNTOL.DIM PR: QA: 500		SCALE N.T.S	WEIGHT (KG). -	REF. TO ASSY/OLD DRG. ---			ITEM NO. -	NO. OF ITEMS -
CODE 862	TITLE CORRUGATED ROOFING SHEET				CARD CODE U 01	DRAWING NO. 2-89-614-01769			REV 00

CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.