

	TECHNICAL SPECIFICATION FOR SHEETING WORK IN ROOF AND SIDING	SPECIFICATION NO. PE-TS-999-600-C020	
		VOLUME - II B	
		SECTION - D	SUB-SECTION – C20
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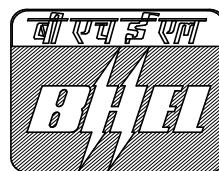
VOLUME – II B
CIVIL, STRUCTURAL & ARCHITECTURAL WORKS

SPECIFICATION NO. PE-TS-999-600-C020

SECTION - D

GENERAL TECHNICAL SPECIFICATION

SHEETING WORK IN ROOF AND SIDING



Bharat Heavy Electricals Limited
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**TECHNICAL SPECIFICATION
FOR
SHEETING WORK IN ROOF AND SIDING**

1.0.0 SCOPE

This specification covers the erection of asbestos, C.G.I., aluminium or other sheet covering to roof and side walls at various elevations and the fabrication and/or installation of asbestos, C.G.I or aluminium gutters, flashings etc., as shown on drawings.

2.0.0 INSTALLATION

2.1.0 Storage of Materials

All materials shall be stored by the Contractor in proper way to prevent all damage. If the materials are issued at site by the Owner, the Contractor shall at the time of issue, satisfy himself about the condition of issued sheets, gutters, etc. and no complaints shall be entertained later.

2.2.0 Workmanship

The workmanship shall be according to best construction practice to give a water tight finish to the satisfaction of the Engineer fixing of gutters and down pipes shall be according to IS:2527.

2.2.1 Asbestos Sheeting

Asbestos sheets of profiles as stated in the Schedule of Items, shall be fixed with minimum 150 mm end lap and side laps as per manufacturer's specification Hook bolts or J-bolts shall be 8 mm dia. at 305 centres 6 mm dia galvanised iron seam bolt and nut with G.I. flat washers and bitumen washers shall be used for stitching ridge capping, corner pieces, ventilators, north light curves etc.

2.2.2 C.G.I. Sheeting and Aluminium Sheeting

Side laps shall be 2 corrugations for roof and one corrugation for side sheeting. End laps shall be minimum 150 mm for roof and 100 mm for side sheeting. In ridges and hips where plain sheets are used the end laps shall be minimum 100 mm. Holes in C.G.I sheets shall preferably be made on the ground the sheets should be placed on trestles and holes punched in the ridge of the corrugation from the outside inward for obtaining proper seating of limpet washes. Sheets shall be secured to sheet framing by 8 mm dia. galvanised iron hooks or J-bolts and maximum 305 mm apart. The length of the hook or J- bolts shall be to suit the sections of the bearers. Sheets shall also be bolted at the ends at every third corrugation with 6 mm

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dia. galvanised iron seam bolts and G.I. flat washers and bituminous washers.

2.2.3 **Fibre Glass Reinforced Plastic Sheeting**

This shall be of thickness and profile as mentioned in the drawing. Colour and light transmittance shall be as mentioned in drawings and or schedules. Where used in conjunction with C.G.I. or asbestos sheeting the end and side laps and fixing device shall be same as used for general sheeting. Where used in lieu of glass, the fixing shall be by means of timber or metal glazing beads as mentioned in drawing. In all cases, the installation shall be completely watertight and able to withstand the designed wind-pressure.

3.0.0 **ACCEPTANCE CRITERIA**

The installations shall present a neat appearance and shall be checked for water tightness. The following shall be checked :

- a) Side and end laps
- b) Absence of cracks, holes or damages in sheet
- c) Spacing of bolts
- d) Provision of double washers (G.I. and asbestos or bituminous washers)
- e) Proper installation of flashing

4.0.0 **IS CODES**

The following are some of the important IS Codes relevant to this sections :

IS : 3007 : Code of practice for laying of asbestos cement sheets.

IS : 2527 : Code of practice for fixing rain water gutters and down pipes for roof drainage.

IS : 1626 : Specification for asbestos cement building pipes gutters and fittings.

IS : 277 : Specification for galvanised steel sheets (plain and corrugated).