

# VARIPANEL

## (ROOF & WALL SINGLE SKIN PANEL AND METAL DECK)

### 1. SCOPE OF WORK:

- A. This section covers furnishing and installation of factory manufactured preformed metal Varipanel single skin panel metal deck with all the required accessories in accordance with all applicable drawings and as specified herein.

### 2. MATERIALS:

- A. Profiled single skin panels shall be formed of galvanized steel conforming to ASTM, BSI and German DIN standard, structural quality with hot dipped commercial quality galvanized coated meeting with ASTM, BSI and German DIN. Single skin sheet shall be of different gauges, depth, coverwidth & finishes.

### 3. COATING SPECIFICATION FOR EXTERIOR AND INTERIOR METAL SKINS:

- A. Substrate: Hot dipped galvanized steel, minimized spangle conforming to British Standard Specification, BSI & German DIN, with a Zinc coating.

#### B. Faceside:

- B1. Pre-treatment: After cleaning, a "Chemical Conversion" of the Zinc coating to a non-metallic surface with corrosion inhibiting and adhesive additives.
- B2. Primer: Nominal 5 – 7 microns thick anti-corrosive pigmented Epoxy primer applied to both sides.
- B3. External Weather Coat: Nominal 27 microns thick KYNAR PVF-2 or other coating pigmented in one of the standard colours in the manufacturer's range.
- C. Backface: Coated with HESCO standard primer washcoat.

- D. Coating Specification by performance (independent laboratory test results)

### 4. REFERENCES:

The latest editions of publication listed herein form a part of this specification to the extent referenced in the relevant paragraphs. The publication are referred to the text by basis designation only.

#### AMERICAN SOCIETY FOR TESTING & MATERIALS (ASTM)

Factory Mutual Eng'g. Corp. (FM)

Uniform Building Code 1988 (UBC)

British Standard (BS)

German Standard (DIN)

### 5. SUBMITTALS:

- A. Make submittals in accordance with Special Provision.
- E. Samples: Submit samples, minimum 300 mm (12 inches) square, of single skin with specified finish coating and colour as shown on the drawings or as selected by the client representative. Submit separate colour samples if two or more different coating manufacturer's system are to be used on materials furnished under the section.
- F. Product Data: Submit manufacturer's technical data on coating system verifying compliance with this specification.
- G. Shop Drawings: Submit shop drawings showing list of materials, dimensions, sections, forming details, method of installation, type of fasteners and spacing, location of lapped joints, and all other pertinent information.

6. **QUALITY ASSURANCE:**
  - A. Installer's Qualifications: Panels shall be installed by qualified erector. The overall responsibility, however shall rest with the main contractor.
  - B. Performance standard: Metal panels shall have been tested by an independent testing agency and shall have met the performance requirements under paragraph 3 for the performance requirements.
7. **PRODUCT DELIVERY, HANDLING & STORAGE:**
  - A. Protect all members from damage during shipping, handling and installation. Provide non-abrasive packaging material between panels to prevent damage. Factory damaged materials shall be replaced at no additional cost to the client.
  - B. Upon arrival at the jobsite, all materials shall be carefully unloaded and stored at locations as selected by the contractor. Handle panels with non-marring slings. Exercise extreme care when unloading and lifting into place so as to prevent scratching, bending, bowing or other damage. Coordinate with other contractors and the client representative at site.
8. **INSPECTION:**
  - A. General: Inspect surfaces to receive work under this section. The contractor for work under this section shall verify that all support members have been properly installed and are in alignment. Do not proceed with any work until defects, if any, are repaired commencement of work constitutes acceptance of conditions.
9. **INSTALLATION:**
  - A. General: Comply with panel fabricator's and material manufacturer's instructions and recommendations for installation, as applicable to projects conditions and supporting substrates. Horizontal lines shall be straight and level; vertical lines shall be plumb.
  - B. Installation Tolerance: Shim and align panel units within installed tolerance of plus or minus 3 mm in 6000 mm (1/8 inch in 20 feet) on level / plumb / slope and location / lines as indicated, and within 3 mm (1/8 inch) offset of adjoining faces and of alignment of matching profiles.
10. **CLEANING AND PROTECTION:**
  - A. Damage Units: Replace panels and other components of the work which have been damaged or have deteriorated beyond successful repair by means of finish touch up or similar minor repair procedures.
  - B. cleaning: Upon completion of panel installation, clean, finished surface as recommended by panel manufacturer.