

Saudi Electricity Company



الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARD

SDCS-02

DATE: February 2006G

SDCS-02

**CONSTRUCTION STANDARD
FOR
UNDER GROUND NETWORK**

**This specification is property of SEC and
subject to change or modification without any notice**



PART 4

INSTALLATION OF DISTRIBUTION PILLARS

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1 Introduction

This construction standard specifies the minimum requirements for the distribution pillars intended to be installed on the foot path / leveled or unleveled roads.

This standard is intended to assist the field engineers and technicians to achieve uniform standard in construction to ensure a satisfactory and economical level of service without operating restrictions so that the operational errors are minimized for safety and reliability of the system.

2 Revisions and additions

This construction standard is subject to revision as new material and methods of construction are developed. The latest revision of this construction standard shall be applicable.

3 Service conditions and system parameters

For installation of distribution pillars, the service conditions and system requirements shall be as given in the latest revision of SEC General Requirements for All Equipment/Material Specification No. 01-SDMS-01.

4 Installation

The following points are required to be considered at site during the installation of the distribution pillars:

- 4.1. The minimum clearance between the distribution pillar and any other utility service such as telephone and water boxes shall not be less than 2 m.
- 4.2. The distribution pillar should be easily accessible from the front of consumer's boundary without any obstruction.
- 4.3. Bottom part of the distribution pillar shall be direct buried to the ground and back filled, after fixing the bottom legs with unarmored fine cement mortar.
- 4.4. In case of bulk consumers it can be allowed to terminate more than one cable feeding the same consumer.
- 4.5. The distribution pillar shall not be located on the top of sewerage system.



- 4.6. The fixation of the distribution pillar into the frame shall be in such a way that the used tools and fasteners will not damage the body of the cabinet.
- 4.7. All cable loops between the cabinets shall pass through the cable trench.
- 4.8. The area assigned for installing the distribution pillar shall be finished clean regardless the finishing of the surrounding area.

5 Drawings

The following drawings are attached to this standard:

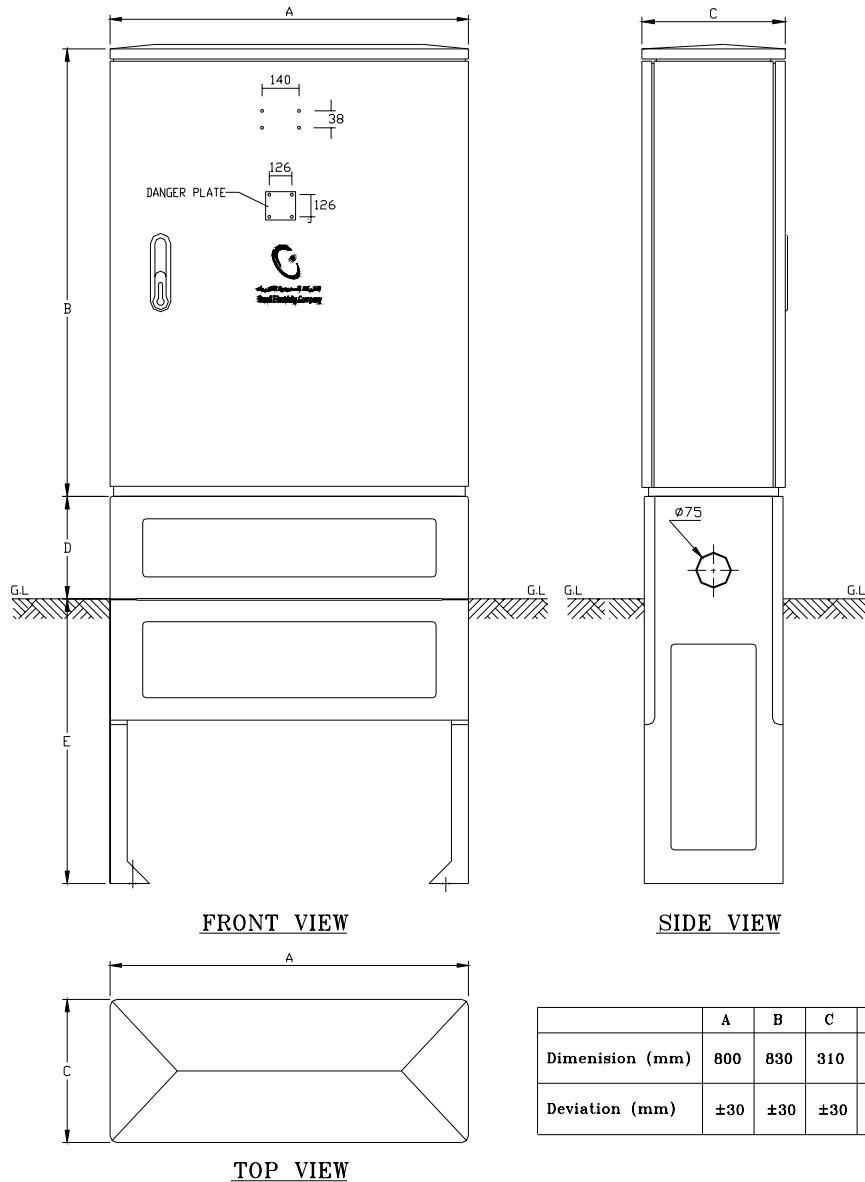
- Fig. 1 Distribution pillar on finished road level
- Fig. 2 Distribution pillar on non finished road level
- Fig. 3 Distribution pillar base detail



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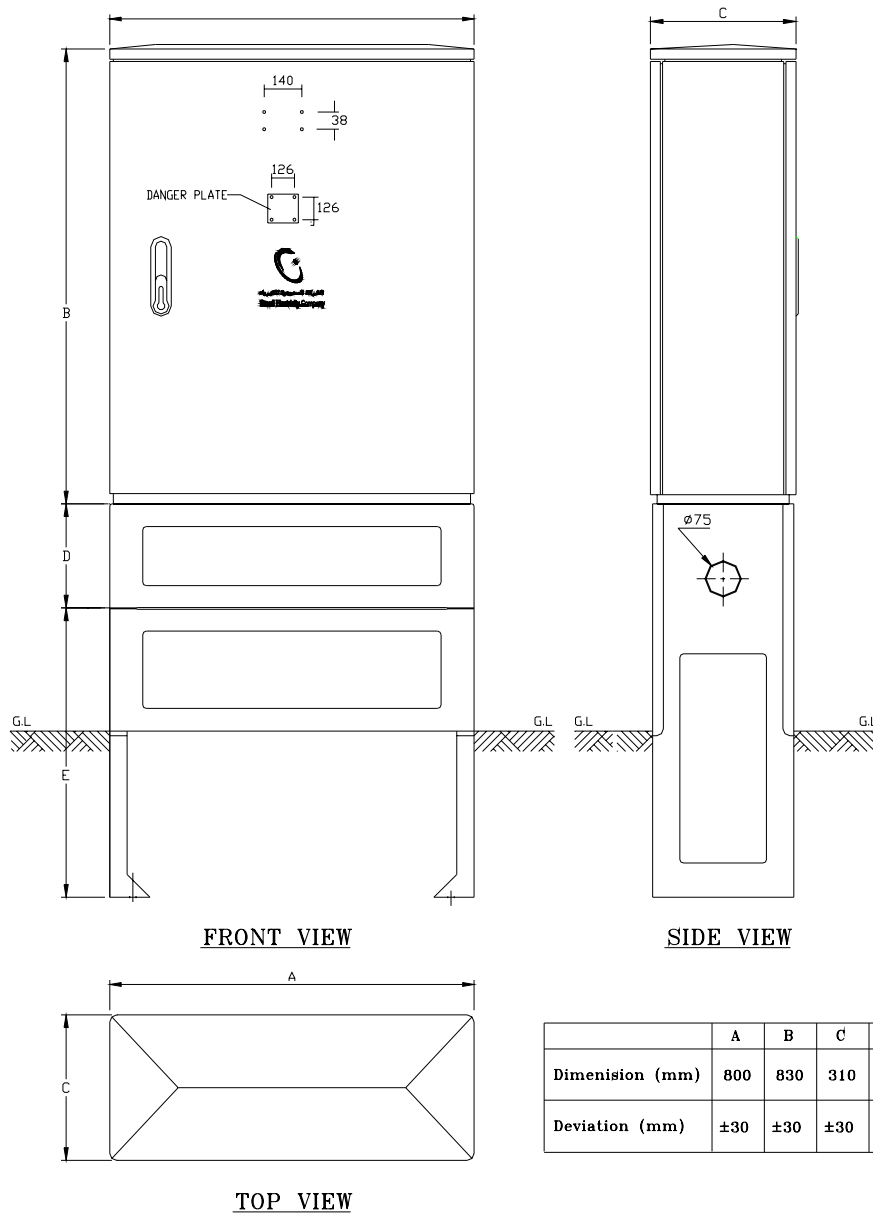
LOW VOLTAGE DISTRIBUTION PILLAR
INSTALLATION ON FINISHED ROAD LEVEL



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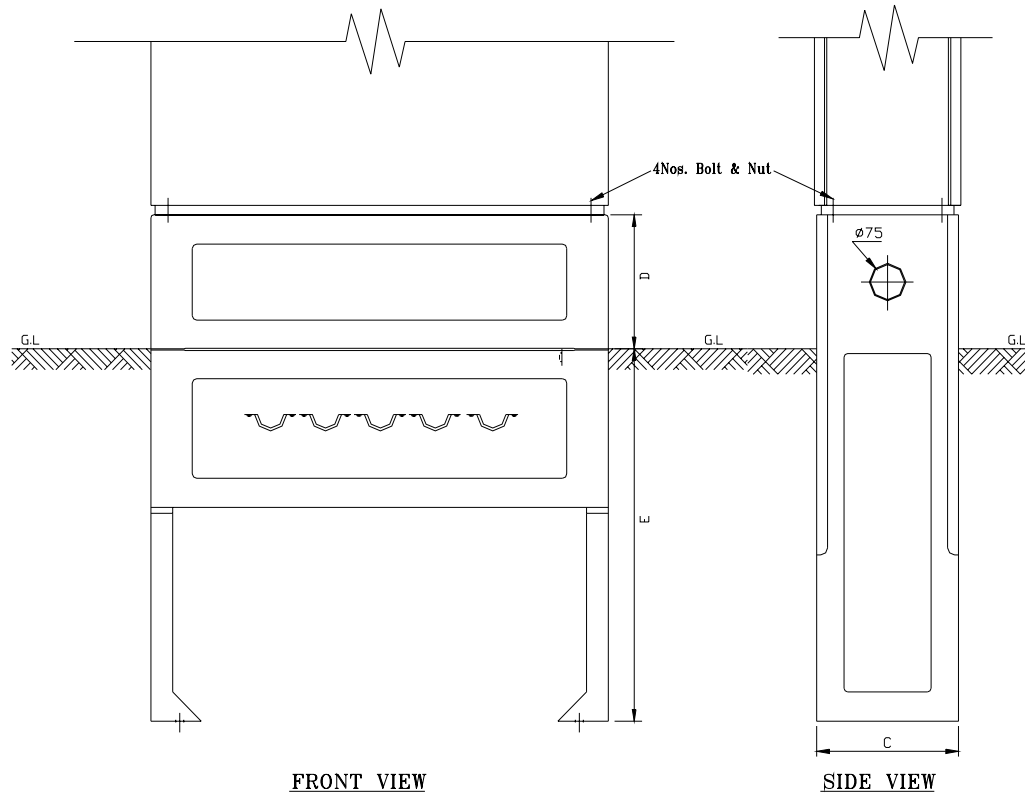
LOW VOLTAGE DISTRIBUTION PILLAR
INSTALLATION IN CASE OF ROAD UNLEVELED (UNDER CONSTRUCTION)



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FRONT VIEW

SIDE VIEW

TOP VIEW

TEMPORARY CABLE
CLAMPING DETAIL

	A	B	C	D	E
Dimension (mm)	800	830	310	280	600
Deviation (mm)	±30	±30	±30	±30	±30

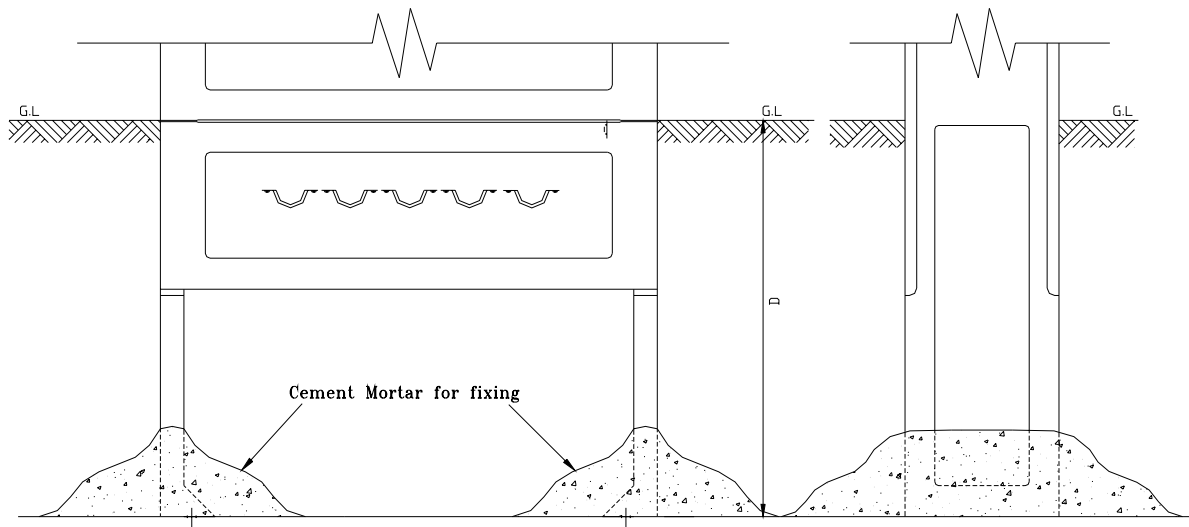
LOW VOLTAGE DISTRIBUTION PILLAR BASE DETAIL



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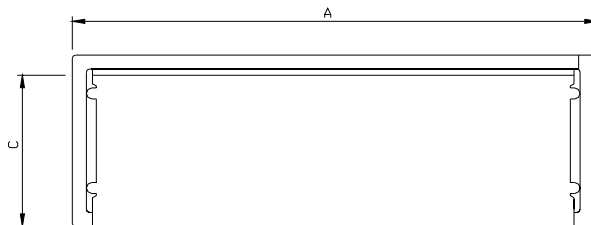
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FRONT VIEW

SIDE VIEW



TOP VIEW

	A	B	C	D
Dimension (mm)	800	830	310	600
Deviation (mm)	±30	±30	±30	±30

LOW VOLTAGE DISTRIBUTION PILLAR BASE CEMENT FIXING