

SPECIFICATIONS FOR DOMESTIC ELECTRICAL INSTALLATIONS

CLAUSES

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MAIN SWITCH BOARD

SPECIALLY CONTROLS, PROTECTS, AND USUALLY MEASURES THE SUPPLY TO A WHOLE INSTALLATION

CLAUSE 0.5.35

A SWITCH BOARD FROM WHICH THE SUPPLY TO THE WHOLE INSTALLATION CAN BE CONTROLLED.

CLAUSE 0.5.54 (INSTALLATION)

ALL ELECTRICAL WIRINGS, ACCESSORIES, FITTINGS, CONSUMING DEVICES CONTROL AND PROTECTIVE GEAR AND OTHER EQUIPMENTS ASSOCIATED WITH WIRING SITUATED IN (OR) BEYOND ANY BUILDING.

THE INSTALLATION IS DEEMED TO COMMENCE AT CONSUMER TERMINAL

CLAUSE 0.5.55 DOMESTIC INSTALLATION.

AN INSTALLATION IN A PRIVATE DWELLING (OR) THAT PORTION OF AN INSTALLATION ASSOCIATED SOLELY WITH AN INDIVIDUAL FLAT (OR) LIVING UNIT.

CLAUSe 0.5.56 MULTIPLE INSTALLATION

AN INSTALLATION INCORPORATING

- A NUMBER OF DOMESTIC INSTALLATIONS
- A NUMBER OF NON-DOMESTIC INSTALLATIONS
- ANY COMBINATION OF DOMESTIC AND NON DOMESTIC INSTALLATION.

DISTRIBUTION BOARD

DISTRIBUTION BOARD IS GENERALLY FED FROM A SUB MAIN TO CONTROL AND PROTECT A PORTION OF AN INSTALLATION.

Types AND APPLICATIONS

THE TYPE OF SWITCH BOARD USED FOR A PARTICULAR INSTALLATION WILL DEPEND ON

- LOAD REQUIREMENT
- NUMBER OF CIRCUITS
- FAULT LEVEL PROTECTION EQUIPMENTS

- METERING AND EQUIPMENT ARRANGEMENT
- LOCATION
- SUPPLY AUTHORITY REQUIREMENTS.

LOCATION

SWITCH BOARDS SHOULD BE INSTALLED IN A SUITABLE DRY, WELL VENTILATED WHERE ACCESS IS NOT OBSTRUCTED.

CLAUSe 2.16.11.1 CONTROL

THE SUPPLY TO EVERY INSTALLATION SHALL BE CONTROLLED ON THE MAIN SWITCH BOARD BY MAIN ISOLATION SWITCH

CLAUSe 2.11.6.1.2

THE NUMBER OF MAIN SWITCHES INSTALLED AT ANY MAIN SWITCH BOARD SHALL NOT EXCEED SIX

CLAUSe 2.1.6.1.3 ACCESS TO MAIN SWITCH

MAIN SWITCHES SHALL BE READILY ACCESSIBLE.

SHALL NOT BE MORE THAN 2m ABOVE GROUND FLOOR (OR) PLATFORM.

CLAUSE 2.21.1.12 LOCATION

GENERAL

THE MAIN SWITCH BOARD SHALL NOT BE LOCATED NOT MORE THAN ONE FLOOR ABOVE (OR) BELOW AN ENTRANCE TO THE BUILDING AND SHALL BE WITHIN EASY ACCESS TO SUCH ENTRANCE

MULTIPLE INSTALLATION

IN MULTIPLE INSTALLATION, THE MAIN SWITCH BOARD SHALL NOT BE LOCATED WITHIN ANY DOMESTIC INSTALLATION.

RESTRICTED LOCATIONS

- A SWITCH BOARD SHALL NOT BE INSTALLED WITHIN 0.9m ABOVE THE GROUND, FLOOR (OR) PLATFORM IN DOMESTIC AND MULTIPLE INSTALLATIONS.
- A SWITCH BOARD SHALL NOT BE INSTALLED WITHIN A FIRE ISOLATED STAIRWAYS, PASSAGEWAYS, RAMP (OR) SIMILAR MEANS OF EMERGENCY EXIT FROM BUILDING.

II WIRING SYSTEMS

FLAT TPS CABLES (WHITE / BLACK / GREY) → GENERAL INSTALLATION SHEATH

RED SHEATH - FIRE ALARM SYSTEM

CABLES CAN RUN IN

- UNENCLOSED IN CEILING SPACES
- INSIDE PLASTER BOARD LINED WALLS AND PARTITIONS
- INSIDE SKIRTING TRUNKING AND FLOOR DUCT

TRUNKING & DUCT

CLAUSE 0.5.90 DUCT - A PIPE OF 75mm DIAMETER OR GREATER

CLAUSE 0.5.94 TRUNKING - A TRUNK OR THROUGH FOR HOUSING AND PROTECTING ELECTRICAL CABLES AND CONDUCTORS.

CLAUSE 0.5.97 WIRING ENCLOSURE.

A PIPE, TUBE, DUCT OR CABLE TRUNKING
FIXED (OR) SUPPORTED IN POSITION WITH
APPROPRIATE PROTECTION

SEGREGATION

LOW VOLTAGE CABLES TO BE SEGREGATED FROM CABLES OF OTHER SYSTEMS PARTICULARLY TELECOMMUNICATION SERVICES AND ALSO FROM FIRE CONTROL, EVACUATION AND LIFT WIRING SYSTEMS.

INSTALLATION OF CABLE TRAYS

- ARRANGEMENT OF CABLE
- CLEARANCE BETWEEN TRAYS
- INSTALLATION METHODS
- CURRENT CARRYING CAPACITIES
- DERATING FACTORS.

TP1 CABLE (BUILDING WIRE)

CAN BE INSTALLED IN
RIGID PVC CONDUIT
FLEXIBLE PVC CONDUIT
CORRUGATED PVC CONDUIT

- DERATING FACTOR TO BE TAKEN IN TO ACCOUNT

CLAUSE 3.26.1 APPLICATION OF METALLIC CONDUIT

METALLIC CONDUIT USED FOR THE PROTECTION OF CABLES IN THE
FOLLOWING SITUATIONS.

WHERE EXPOSED TO SEVERE MECHANICAL DAMAGE.

IN CLASS 1 ZONE 0 AND CLASS 1 ZONE 1 HAZARDOUS AREAS

FOR THE SUPPLY TO FIRE AND SMOKE CONTROL EQUIPMENTS.

EVACUATION EQUIPMENTS AND FIRE.

WHERE AMBIENT TEMPERATURE EXCEEDS 60°C .
WHERE THE PROTECTION IS REQUIRED TO REDUCE
THE EFFECT OF FIRE.

CLAUSE 3.26.4.5 CONTINUITY

MECHANICAL AND ELECTRICAL CONTINUITY (EARTH CONTINUITY)
SHALL BE MAINTAINED

SWA & MIMS CABLES \rightarrow USED TO PROTECT
SEVERE MECHANICAL DAMAGE

UNDERGROUND.

NEED P.V.C SERVING PROTECTION

MIMS - MULTISTORY BUILDING RISING MAINS
FIRE PROTECTION.

PAPER WORK IN ELECTRICAL CONTRACTING

PAPER WORK CONSISTS OF INVOICES, BILLING, PAY ROLL, PURCHASE ORDER, ETC)

KEY FACTORS IN PROCESSING PAPER WORK SMOOTHLY

- HAVING ENOUGH INFORMATION
- GETTING THE INFORMATION WHEN NEEDED
- HAVING ENOUGH PEOPLE TO HANDLE THE WORK.

PURCHASE ORDER

ONE COPY → VENDOR

ONE COPY → FOLDERS TO CHECK ALL INVOICES

ONE COPY → P.O FILE. (PURCHASE
ORDER FILE)

BILLINGS

ONE COPY → JOB FOLDER

TWO COPIES → CUSTOMER

THE CUSTOMER SHOULD RETURN ONE COPY WITH PAYMENT

TIME CARDS

ONE COPY → PAYROLL

ONE COPY → JOB FOLDER

INCOMING INVOICES

ONE COPY → JOB FOLDER

ONE COPY → BOOKKEEPER'S ACCOUNT
PAYABLE BASKET

INCOMING STATEMENTS

ONE COPY → "PAID FILE" TOGETHER WITH
A COPY OF ALL INVOICES
PERTAINING TO IT.

ONE COPY → SHOULD BE RETURNED
WITH PAYMENTS

BOOK KEEPER'S JOB

THE BOOKKEEPER SHOULD HAVE SEVERAL
FILES (OR) BASKETS TO KEEP PAPER
WORK IN

- ACCOUNT PAYABLE
- ACCOUNT RECEIVABLE (BILLING)
- BILLINGS TO GO OUT

(THESE ARE BILLINGS PREPARED BY
SOME ONE ELSE, GIVEN THE BOOKKEEPER
TO PROCESS)

SERVICE ORDER

BILLED _____

CUSTOMER _____

ADDRESS _____

PHONE _____

JOB ADDRESS _____

JOB PHONE _____

DESCRIPTION _____

JOB ASSIGNED TO: _____

MATERIAL	
INVOICE PO #	AMOUNT

RATE :

DATE _____

COMPLETED _____

LABOUR	
DATE	HOUR

OTHER

Quoted Amount:

CUTTING COST

- BUYING MATERIALS MORE CHEAPLY
(MARKET SURVEY, JUDGE PRICE & QUALITY)
- MAKING IT EASIER FOR SUPPLIER

(IT WILL MAKE IT EASIER FOR YOUR SUPPLIER
TO SELL YOU MATERIAL THAT IS NOT
SUBJECT TO UNFAIR COMPETITION)

How much SHOULD I PAY

JUDGE WITH TOTAL AMOUNTS & BENEFIT
STORE THE COMMODITY ITEM IN MASS
AT THE TIME DISCOUNT IS OFFERED.

BID PRICING

