

INSTALLING STORAGE BATTERIES

SUPPORTS

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1. GENERAL

1.1 This section covers requirements and methods to be used when installing the battery supporting equipment such as stands and racks. The supports may be metal or wood shelves in relay rack frames or stands made of metal. Floor plans for rack-mounted cells will have rectangles corresponding to the cabinet or rack.

1.2 The information in this section is to be used with the other sections in the 17 series.

1.3 These requirements supplement information on the equipment drawings and in the job specifications.

2. INSTALLING EQUIPMENT

2.1 The required tools and supplies are shown in Section 17A.

3. SHELVES IN RELAY RACK FRAMEWORK AND CABINETS

3.1 Mount small storage cells and batteries on metal shelves in accordance with standard drawings. The shelves are finished with acid resistant gray enamel and additional protection is not required. Touch up any marred surfaces with RM-646317 gray acid resistant enamel. Plumb the framework or cabinet to meet requirements in Section 2 of this Handbook.

4. BATTERY STANDS AND RACKS

4.1 Locate and assemble battery stands and racks in accordance with standard drawings. Level each shelf between the stand supports to within 1/8 inch to insure that cells will be level when placed on the shelf. Plumb the uprights to meet requirements in Section 2 of this Handbook.

4.2 Use the R-1370 level on each shelf and check between each support point, lengthwise, and across the shelf. If shimming is required, use a noncompressible material of a size equal to the foot dimensions. An acceptable minimum size would be equivalent to the upright leg dimensions with the shims placed directly under the leg, however, additional shimming would be required under the ends of the feet where angle braces are provided. Check that each foot of the stand is resting on the floor or a properly placed shim.

4.3 After the stand has been erected, clean the top surface of the shelves to remove all grit and dirt.

4.4 Black polyethylene sheeting normally furnished for protection between the cell and the shelf is no longer available. The Bell Laboratories is in the process of devising a new protector that will be made of rigid insulating material and will be preformed to fit over the top and extend down over the sides of the shelf. As an interim measure, orders for the polyethylene sheeting will be filled by a substitute. The field will be receiving flat sheets of gray "Kydex 100" in maximum lengths of eight feet. Centrally locate these sheets front to rear on the shelf with the smooth side up. No adhesive should be used and no tape or other seal is required over the junction of the butted sheets. Make sure the protection will cover the entire area under each cell. After all cells are placed, aligned and connected, neatly trim off any excess protection that may extend beyond the end of the shelves.

4.5 After battery stands and battery racks have been assembled, aligned and leveled and the cells placed and connected, clean and touch up marred, corroded, or scratched surfaces using RM-646317 acid resistant gray enamel. Also touch-up with acid resistant gray enamel any marred, corroded, or scratched surfaces of adjoining parts such as auxiliary supports, cable, rack, etc., within the exposure area.

4.51 The exposed area is arbitrarily assumed to include all of the stand or rack and parts fastened directly to them up to a point 12 inches above the top of the highest cell.

4.6 The protective finish furnished on bolts, nuts and other parts is a satisfactory finish and need not be painted.

➔ Arrowed lines indicate new or changed information.

[Vertical line at side of paragraphs indicates requirements.

Manager, Product Engineering

Reason for Reissue:

To include information on "Kydex 100" shelf protector as a substitute for black polyethylene sheeting.