



SPECIFICATION

MATERIAL: ALL MATERIAL SHALL BE OF THE BEST GRADE OF ITS SPECIFIC KIND AND THAT BEST ADAPTED TO THE CONSTRUCTION FOR WHICH IT IS EMPLOYED. ALL PLATES SHALL BE OF THE BEST GRADE OPEN HEARTH STEEL, COLD ROLLED, PICKLED, DOUBLE ANNEALED AND FREE FROM SCALE AND BUCKLE. THE FRAMING PARTS OF THE WORK SHALL BE MADE OF ROLLED SHAPES OF OPEN HEARTH STEEL, AS HEREINAFTER SPECIFIED GAUGES OF PLATES ARE U.S. STANDARD.

FINISH: THE CASE SHALL BE THOROUGHLY CLEANED BEFORE FINISHING, FRAMING PARTS GROUND SMOOTH, ENTIRE CASE WASHED WITH BENZINE TO REMOVE OIL AND DIRT, FOLLOWED BY A HEAVY COAT OF WELL BAKED MINERAL FILLER THOROUGHLY RUBBED DOWN TO A SMOOTH EVEN SURFACE AND PAINTED WITH TWO COATS OF HIGH GRADE BLACK PAINT AND BAKED AT A TEMPERATURE FROM 150-250 DEGREES.

SHELVES: SHELVES SHALL BE MADE OF #16 GAUGE PLATES FOLDED DOWN AT RIGHT ANGLES ON ALL FOUR SIDES WITH A 1/2" FRONT FLANGE TOGETHER WITH A RETURN FLANGE OF 1/8" TO PROVIDE AMPLE REINFORCEMENT FOR HEAVY LOADS. SHELVES SHALL BE PUNCHED WITH 1/2" HOLES TO ENGAGE IN THE HOLES OF THE WALLS OF CASE. EACH SHELF SHALL BE PUNCHED WITH HOLES 18" CENTERS IN BACK TO ENGAGE IN HOLES OF DIAPHRAGM OF CASE FOR RIGID SUPPORT. SHELVES SHALL BE FREE FROM ALL OTHER PERFORATIONS AS A SOLID PLANE SURFACE IS REQUIRED EXCEPT WHERE FASTENED TO MIDDLE UPRIGHT IN FRONT OF CASE.

UPRIGHTS: IN MIDDLE OF FRONT AND BACK, UPRIGHTS SHALL BE OF 1 1/2" x 1 1/2", #12 GAUGE STEEL.

BACKS: BACKS SHALL BE MADE OF #16 GAUGE STEEL REINFORCED WITH CHANNELS AND ARE TO BE ENGAGED BY LUGS IN BOTTOM OF CASE 3/8" DIA. BACKS SHALL BE EQUIPPED WITH STRONG STEEL HASPS FOR LOCKING PURPOSES AND HANDLES TO PERMIT OF READY AND QUICK REMOVING.

WALLS: FRONT, SIDES AND BACK WALLS SHALL BE MADE OF #14 GAUGE STEEL ON WHICH FRONT DOORS WILL BE SUSPENDED AND SHELVES BOLTED.

BOTTOM PLATES: BOTTOM PLATES SHALL BE MADE OF #16 GAUGE STEEL PROPERLY REINFORCED AND ANCHORED TO THE SIDES OF THE CASE TO ELIMINATE ALL WEAVE AND SIDE SWAY OF THE COMPLETE SECTION.

DOORS: DOORS SHALL BE OF FULL HEIGHT WITH 3 LOUVERS AT TOP AND BOTTOM PUNCHED 1" IN HEIGHT AND 6" WIDE. THE BACK OF THE LOUVER SHALL BE COVERED WITH WIRE SCREENING OF #18 COPPER MESH SO AS TO GIVE PROPER VENTILATION AND TO KEEP OUT SNOW AND DIRT. WIRE MESH SHALL BE WELDED IN PLACE WITH SUITABLE IRON FRAME BINDER. EACH DOOR SHALL BE EQUIPPED WITH A 3 POINT LOCKING DEVICE. DOORS SHALL BE MADE OF #14 GAUGE OPEN HEARTH STEEL AND SHALL BE SUSPENDED BY 3 STEEL HINGES BOLTED OR SPOT WELDED IN PLACE. DOORS SHALL BE REINFORCED WITH CHANNELS AT TOP AND BOTTOM AND WITH A FRN REINFORCEMENT AND SHALL BE EQUIPPED WITH GASKET 1/2" x 1/8" SO AS TO BE WEATHERPROOF AGAINST RAIN AND SNOW.

ASBESTOS TERMINAL BOARD: THE ASBESTOS TERMINAL BOARDS OF THE CASE DIRECTLY BACK OF THE SHELVES SHALL BE OF 1/2" x 9 1/2" SOLID ASBESTOS PANEL SO FASTENED TO THE DIAPHRAGM AS TO FORM A RIGID SERVICE FOR THE ATTACHMENT OF ELECTRICAL APPARATUS.

DIAPHRAGM: THE INTERMEDIATE DIAPHRAGM OF CASE SHALL BE MADE OF #18 GAUGE STEEL TO BE BOLTED TO THE SHELVES ON 18" CENTERS AND TO THE WALLS OF CASE SO AS TO FORM A SOLID AND RIGID SUPPORT.

TOP PLATES: THE TOP PLATE SHALL BE MADE OF #14 GAUGE STRUCK DOWN AT RIGHT ANGLES AND SHALL BE BUILT INTO THE CASE ON A SLOPE OF 1 1/2" TO THE FOOT. TOP PLATES SHALL BE SO CONSTRUCTED SO AS TO PROVIDE FOR WATERSHED ABOVE DOORS EXTENDING 3/8" FROM WALL OF CASE HAVING SLOPE OF 1 1/2".

RUBBER MATTING: RUBBER MATTING OF 1/8" THICKNESS OF RUBBER COMPOSITION SHALL BE SUPPLIED FOR EACH SHELF.

FASTENINGS: ALL CASES SHALL BE SUPPLIED WITH SUITABLE FASTENINGS TO PROPERLY ANCHOR EACH SECTION TO BRIDGE WORK OR CONCRETE FOUNDATION AS SPECIFIED.

SHIPMENT: ALL CASES TO BE SHIPPED INTACT, ASSEMBLED FOR IMMEDIATE INSTALLATION. CASES SHALL BE SECURELY CRATED AND SKIDDED.

REVISIONS

1 SHEET
SK-530-A

THE PENNSYLVANIA RAILROAD
STANDARD
INSTRUMENT CASE

OFFICE OF CHIEF SIGNAL ENGINEER, PHILA., PA., JANUARY 10, 1930.

Approved

Chief Signal Engineer

Approved

Chief Engineer