



P.R.C.

- Storage & Handling -

(CTI-TT-PRC-001_A02)



1.0 PACKAGING METHODS

- 1.1 TOUGHTRAY CABLE LADDER STRAIGHT SECTIONS ARE TO BE STACKED INTO BUNDLES NOT TO EXCEED SIX (6) FEET (1.8 METERS) IN HEIGHT OR 4,000 POUNDS (1814 KILO GRAMS) NET WEIGHT.
- 1.2 TOUGHTRAY STRAIGHT SECTION BUNDLES ARE TO BE SECURED WITH BANDING. BAND EVERY NINE (9) FEET (2.1 METERS) MINIMUM.
- 1.3 TOUGHTRAY STRAIGHT SECTION BUNDLES ARE TO BE SUPPORTED AT TWO (2) OPPOSITE ENDS WITH LUMBER (WOOD) BLOCKS OR PALLETS WHERE THE BANDING IS LOCATED. THE BANDING IS TO PASS OVER THE LUMBER BLOCKS OR PALLETS.
- 1.4 TOUGHTRAY STRAIGHT SECTION BUNDLES MAY HAVE SMALLER WIDTH TRAYS NESTED IN A BUNDLE WITH LARGER TRAY WIDTHS.
- 1.5 MULTIPLE TOUGHTRAY STRAIGHT SECTION BUNDLES CAN BE BANDED TOGETHER TO FORM A MAXIMUM COMBINED WIDTH OF SEVEN (7) FEET (2.1 METERS).
- 1.6 TOUGHTRAY FITTINGS WILL BE PACKED EITHER LOOSE, PALLETIZED, OR BUNDLED, DEPENDING ON THE PHYSICAL CHARACTERISTIC OF THE ITEM AND ITS SUSCEPTIBILITY TO PACKAGING.
- 1.7 TOUGHTRAY ACCESSORIES (SUCH AS BUT NOT LIMITED TO LINKS, CLAMPS, SPLICE PLATES, BRACKETS, HARDWARE) ARE TO BE PACKAGED IN BOXES AND BOXES SHIPPED LOOSE OR BOXES PALLETIZED.
- 1.8 TOUGHTRAY BUNDLES AND INDIVIDUAL PIECES ARE TO BE CLEARLY MARKED WITH THE NECESSARY SHIPPING AND HANDLING INFORMATION. STRAIGHT SECTIONS, FITTINGS AND ACCESSORIES LOADED INTO A SHIPPING CONTAINER SHALL HAVE THE SHIPPING AND HANDLING INFORMATION CLEARLY MARKED ON TWO (2) SIDES OF THE CONTAINER.
- 1.9 ALL TOUGHTRAY LOADS ARE TO BE SECURELY ANCHORED OR STRAPPED TO TRUCK, “STEEL CHAINS ARE NOT TO BE USED”. TOUGHTRAY LOADED INTO A SHIPPING CONTAINER IS TO BE STRAPPED, BLOCKED AND BRACED WITHIN THE SHIPPING CONTAINER.



2.0 HANDLING INSTRUCTIONS

- 2.1 TOUGHTRAY STRAIGHT SECTIONS SHOULD BE UNLOADED AND HANDLED BY THE USE OF:
- A. FORKLIFT TRUCK WITH CARE TO BE TAKEN THAT THE FORKS ARE WIDELY SPACED AND LIFT AT THE CENTRE POINT OF THE BUNDLE LENGTH. IT IS RECOMMENDED TO LIFT ONE (1) BUNDLE AT EACH TIME. FORKS MUST NOT PROTRUDE PAST ONE BUNDLE AND IMPINGE AN ADJOINING BUNDLE DURING LIFTING TO AVOID DAMAGE TO THE TRAY.
 - B. OVERHEAD CRANE. NYLON HOISTING SLINGS (LIFTING TACKLE) ONLY IS TO BE USED "NO CHAINS ARE TO BE USED". LIFTING SLINGS MUST COMPLETELY ENCIRCLE A TOUGHTRAY BUNDLE FROM THE BOTTOM. BALANCE AND LIFTING POINTS SHOULD BE TWO (2) FEET (0.6 METER) FROM EACH END OF A TEN (10) FEET (3 METER) LENGTH BUNDLE AND 3 FEET (0.9 METER) FROM EACH END OF TWENTY (20) FEET (6 METER) LENGTH BUNDLE).
- 2.2 TOUGHTRAY FITTINGS SHOULD BE UNLOADED AND HANDLED BY HAND WHEN SHIPPED LOOSE (WHEN NOT PALLETIZED). WHEN SHIPPED PALLETIZED THE PALLET SHOULD BE UNLOADED AND HANDLED BY A FORKLIFT TRUCK.
- 2.3 TOUGHTRAY ACCESSORIES SHIPPED BOXED LOOSE SHOULD BE UNLOADED BY HAND. TOUGHTRAY ACCESSORIES SHIPPED BOXED PALLETIZED SHOULD BE UNLOADED AND HANDLED WITH A FORKLIFT TRUCK.
- 2.4 TOUGHTRAY STRAIGHT SECTIONS AND FITTINGS MAY BE DAMAGED (BENDING AND/OR DEFORMATION OF TRAY) IF DROPPED OR MISHANDLED. SPECIAL CARE SHOULD BE TAKEN IN PLACEMENT OF SLINGS AND FORKLIFT TRUCK FORKS. BENDING CAN OCCUR IF LIFTED.
- 2.5 NO SPECIAL REQUIREMENTS NEED BE TAKEN DURING SHIPMENT AND HANDLING IN RESPECT TO CONTAMINATION.
- 2.6 GOOD CARE SHOULD BE TAKEN AT ALL TIMES DURING HANDLING OF THE TOUGHTRAY. THESE HANDLING INSTRUCTIONS SHALL BE FOLLOWED TO PREVENT AND/OR MITIGATE DAMAGE TO THE CABLE TRAYS.



3.0 STORAGE INSTRUCTIONS

- 3.1 TOUGHTRAY SHOULD IDEALLY BE STORED INDOORS UNDER COVER.
- 3.2 STORAGE STAIN (COMMONLY REFERED TO AS WHITE RUST) CAN OCCUR DURING TOUGHTRAY STORAGE. PREVENTION MEASURES ARE TO FOLLOW THE RECOMMENDATIONS GIVEN BY INDUSTRY STANDARD NEMA VE 2.
- 3.3 TOUGHTRAY MATERIALS SHOULD BE STORED IN ACCORDANCE WITH THE RECOMMENDATIONS GIVEN IN NEMA VE 2, OR STORED IN ACCORDANCE WITH ANSI 45.2.2:
 - A. LEVEL 'D' = STRAIGHT SECTIONS
 - B. LEVEL 'C' = ACCESSORIES
- 3.4 TOUGHTRAY WHEN STORED OUTDOORS AND SUBJECT TO OUTDOOR ENVIRONMENTAL CONDITIONS MUST BE STORED IN ACCORDANCE WITH RECOMMENDATIONS GIVEN IN NEMA VE 2 OR BE STORED IN ACCORDANCE WITH ANSI 45.2.2, LEVEL D.
- 3.5 TOUGHTRAY BUNDLE MUST NOT BE STACKED ON TOP OF ANOTHER BUNDLE AND MUST BE STORED INDIVIDUALLY ON THE GROUND IN COMPLIANCE WITH SECTION 3.7 OF THESE INSTRUCTIONS.
- 3.6 TOUGHTRAY STORED OUTDOORS IS TO BE COVERED WITH PLASTIC SHEETING (TARPAULIN) WHICH MUST ALLOW ADEQUATE DRAINAGE AND VENTILATION OF THE STORED MATERIALS.
- 3.7 PLEASE NOTE THAT ALL TOUGHTRAY THAT IS NOT PALLETIZED OR BLOCKED ON LUMBER (WOOD), MUST BE STORED BLOCKED ON LUMBER (WOOD) FOR EASY HANDLING AND MOVING. STORAGE OF TOUGHTRAY DIRECTLY ON THE GROUND WITHOUT BEING BLOCKED IS PROHIBITED.