TOW

PALLETIZED UNIT LOADS OF 12 EACH GUIDED MISSILES PACKED ONE PER WIREBOUND WOODEN BOX (OVERPACK)

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REVISIONS

REPROVED U. S. ARMY MISSILE MATERIEL READINESS COMMAND

APPROVED BY ORDER OF COMMANDMENT SERVERLU. S. ARMY
MATERIEL BY CHOMMAN DEADINESS COMMAND (DANCOM)

APPROVED BY ORDER OF COMMANDMENT SERVERLU. S. ARMY
MATERIEL BY CHOMMAN DEADINESS COMMAND

APPROVED BY ORDER OF COMMANDMENT SERVERLU. S. ARMY
MATERIEL BY CHOMMAN DEADINESS COMMAND

APPROVED BY ORDER OF COMMANDMENT SERVERLU. S. ARMY
MATERIEL BY CHOMMAND CENTER

TO AUG 85

REVISIONS

REV

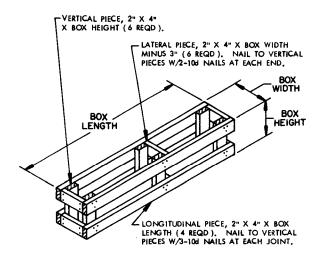
DO NOT SCALE

GENERAL NOTES

- THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AR 740-1, AND AUGMENTS TM 743-200-1 (CHAPTER 5) AND CONFORMS TO MIL-STD-1660.
- FOR DETAILS OF WIREBOUND WOODEN BOX (OVERPACK) SEE DRAWING NUMBER D 10224699 (U. S. ARMY MISSILE COMMAND).

BOX DIMENSIONS ----- 58-1/4" L X 11-5/8" W X 11-5/8" H (APPROX). BOX WEIGHT W/ITEM---- 87 LBS (APPROX).

- BOXES WILL BE LOADED ON THE PALLET WITH THE AFT ENDS IN ONE DIRECTION AS SHOWN ON THE ISOMETRIC VIEWS.
- FOR OUTLOADING AND STORAGE OF THE PALLETIZED LOAD SHOWN HEREIN SEE THE FOLLOWING LISTED DRAWINGS:
 - 1. LOADING AND BRACING IN BOX CARS DRAWING NUMBER 19-48-5489-GM5TO1.
 - LOADING AND BRACING IN CLOSED OR OPEN TOP VAN TRAILERS -DRAWING NUMBER 19-48-5912- GM11TO2
 - LOADING AND BRACING IN A VEHICLE EQUIPPED WITH MECHANICAL BRACING SYSTEM FOR CONTAINER/TRAILER ON FLATCAR SHIPMENT-DRAWING NUMBER 19-48-5746-GM15TO2.
 - 4. STORAGE IN IGLOO, STRADLEY, OR OVAL-ARCH MAGAZINE-DRAWING NO. 19-48-5230-GM1-14-22TO1.
 - LOADING AND BRACING IN A MILVAN CONTAINER EQUIPPED WITH A MECHAN-ICAL BRACING SYSTEM FOR TRAILER/CONTAINER ON FLATCAR, MOTOR, WATER OR AIR CARRIER SHIPMENT - DRAWING NUMBER 19-48-5933-GM15TO1.
- IN ORDER TO OBTAIN COMPACT (SOUND) UNITS, ALL STRAPS SHALL BE LOCATED IN PROPER ALIGNMENT AND TENSIONED. AFTER TENSIONING, ALL STRAPS WILL BE SECURED USING ONE SEAL AND TWO PAIR OF NOTCHES PER SEAL. ALL STRAPPING MUST BE STRAIGHT WITHIN 2" ON ANY SURFACE OF THE UNITIZED LOAD I.E., TOP, BOTTOM, SIDES, OR ENDS, THAT IT ENCOMPASSES.
- WHEN APPLYING ANY STRAP, CARE MUST BE EXERCISED TO ASSURE THAT THE END OF THE STRAP ON THE UNDERSIDE OF THE JOINT EXTENDS AT LEAST 6" BEYOND THE SEAL, THIS EXTRA MINIMUM LENGTH OF STRAP IS REQUIRED TO PERMIT SUBSEQUENT TIGHTENING OF LOOSENED STRAPPING. RETENSIONING CAN BE ACCOMPLISHED WITHOUT REPLACING STRAPPING OR SPLICING STRAPPING THROUGH THE USE OF A MANUAL OR PNEUMATIC FEEDWHEEL TYPE TENSIONING TOOL, AND THE APPLICATION OF ONE ADDITIONAL SEAL.
- FOR THE METHOD OF SECURING A STRAP CUTTER TO THE PALLET UNIT, SEE DARCOM DRAWING 19-48-4127-20P1000.
- IF LESS THAN TWELVE CONTAINERS ARE TO BE LOADED ON A PALLET, IT SHALL BE ACCOMPLISHED BY SUBSTITUTING FILLER ASSEMBLIES, AS DEPICTED ON PAGE 2.
- ALL FILLER ASSEMBLIES WILL BE POSITIONED IN THE TOP LAYER OR LAYERS OF THE CENTER STACK OF A UNIT LOAD.
- CONVERSION TO METRIC EQUIVALENTS: DIMENSIONS WITHIN THIS DOCUMENT ARE EXPRESSED IN INCHES AND WEIGHTS ARE EXPRESSED IN POUNDS, WHEN NECESSARY, THE METRIC EQUIVALENTS MAY BE COMPUTED ON THE BASIS OF ONE INCH EQUALS 25.4 MM, AND ONE POUND EQUALS 0.454 KG.
- ALL NAILS DRIVEN INTO THE FILLER ASSEMBLIES SHALL BE DRIVEN SO THAT THE NAILHEADS ARE FLUSH OR SLIGHTLY BELOW THE SURFACE OF THE PIECE THAT THEY ARE BEING DRIVEN THROUGH.
- ALL ASSEMBLED PALLETS AND DUNNAGE PIECES OR ASSEMBLIES MUST BE PRESERVATIVE TREATED WITH EITHER COPPER-B-QUINOLINOLATE OR ZINC NAPHTHENATE EMULSIFIABLE. THE LETTERS "PA" DENOTING PQ56 (COPPER-B-QUINOLINOLATE) OR "PB" DENOTING M-GARD W550 (ZINC NAPHTHENATE EMULSIFIABLE) MUST BE APPLIED TO A CENTER POST OF A PRESERVATIVE TREATED PALLET OR TO A DUNNAGE PIECE OR ASSEMBLY IN LETTERS AT LEAST ONE-INCH (I") HIGH .



FILLER ASSEMBLY (FOR MINUS ONE BOX)

REVISIONS

REVISION NO. 1, DATED 28 AUGUST 1969, CONSISTS OF:

1. CHANGED PALLET LOAD CONFIGURATION AND ELIMINATED BATTEN REQUIREMENT.

REVISION NO. 2, DATED JULY 1971, CONSISTS OF:

- CHANGED STEEL STRAPPING FROM 1-1/4" X .035" TO 3/4" X .035" WITH 1-1/4" X. 035" CITED AS AN ALTERNATE.

 2. ADJUSTED LOAD WEIGHT AND STRAP SEALS ACCORDINGLY.

REVISION NO. 3, DATED FEBRUARY 1972, CONSISTS OF:

- LOAD AND BANDING ROTATED 90° ON PALLET.
 CHANGED NUMBER OF STRAPS FROM 3 TO 2.

REVISION NO. 4. DATED FEBRUARY 1977, CONSISTS OF:

- CHANGED DRAWING FILE NO. FROM GM20P4 TO GM20TO1.
- 3. UPDATED GENERAL NOTES AND MATERIAL SPECIFICATIONS.

REVISION NO. 5. DATED APRIL 1982, CONSISTS OF:

- 1. DELETING GROUP 1 WOODS FROM PALLET MATERIAL SPECIFICATION.
- 2. DELETING FINISH A STRAPPING FROM STEEL STRAPPING MATERIAL SPECIFICATION.

REVISION NO. 6, DATED DECEMBER 1984, CONSISTS OF

- ADDING PROCEDURES FOR THE 3-WIDE BY 4-HIGH PALLET UNIT.
- 2. UPDATING DRAWING FORMAT .

REVISION NO. 7. DATED AUGUST 1985, CONSISTS OF:

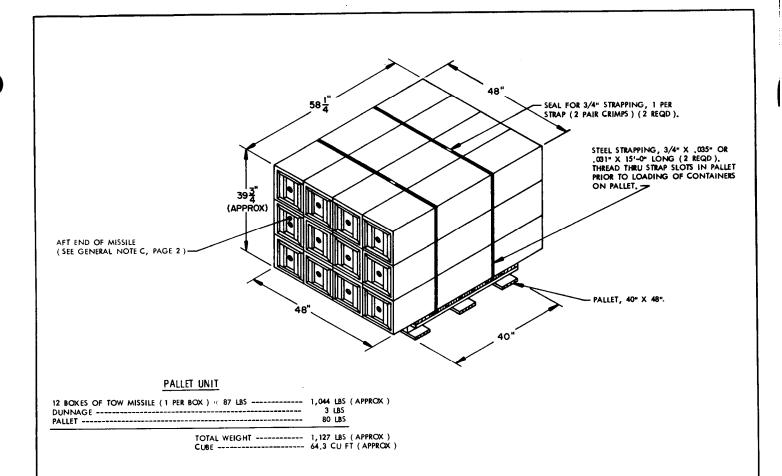
1. UPDATING MATERIAL SPECIFICATIONS TO CONFORM TO CURRENT STANDARDS.

MATERIAL SPECIFICATIONS

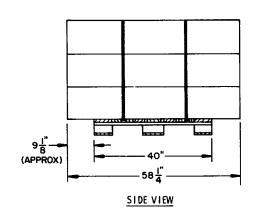
MIL SPEC MIL-P-15011; 4-WAY ENTRY, STYLE I, PALLET -STYLE, IA, TYPE I, CLASS 1, PRESERVATIVE TREATED. SEE GENERAL NOTE "M". STRAPPING, STEEL ----: FED SPEC QQ-S-781; CLASS 1, TYPE I OR IV HEAVY DUTY, FINISH B (GRADE 2), SIZE 3/4" X .035" OR .031" (ALTERNATE SIZE 1-1/4" X .035" OR .031"). SEAL, STRAP -----: FED SPEC QQ-S-781; TYPE D, STYLE I, II, OR IV, CLASS H, FINISH B (GRADE 2). LUMBER ----: TM 743-200-1 (DUNNAGE LUMBER) AND FED SPEC

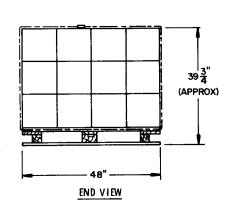
FED SPEC FF-N-105 COMMON, ALT: ANNULAR-RING TYPE NAIL OR PALLET TYPE (MECHANICALLY DEFORMED) NAILS -----NAIL OF SAME SIZE .

PAGE 2



| BILL OF MATERIAL | |
|-------------------|----------|
| PALLET, 40" X 48" | 2.14 LBS |





12-UNIT LOAD, 4-WIDE BY 3-HIGH

PAGE 3

