UNITIZATION PROCEDURES FOR STRYKER ARMOR TILE SET UNITIZED IN PALLET BOXES

ACTIVE TILES - REAR

DISTRIBUTION STATEMENT A:

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U.S. ARMY MATERIEL COMMAND DRAWING APPROVED, U.S. ARMY FIELD SUPPORT COMMAND CAUTION: VERIFY PRIOR TO USE AT WWW.DAC.ARMY.MIL THAT THIS IS THE MOST CURRENT VERSION OF THIS DOCUMENT. THIS IS PAGE 1 OF 6. DO NOT SCALE **JANUARY 2006** BASIC **LAURA A. FIEFFER** ENGINEER OR TECHNICIAN REV. OVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND TRANSPORTATION ENGINEERING RU1G (DIVISION CLASS DIVISION DRAWING VALIDATION FILE ENGINEERING DIVISION 19 48 4221/13 20PA1009 ENGINEERING DIRECTORATE U.S. ARMY DEFENSE AMMUNITION CENTER

GENERAL NOTES

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCOR-DANCE WITH AR 740-1, AND AUGMENTS TM 743-200-1 (CHAPTER 5) AND CONFORMS TO MIL-STD-1660.
- B. FOR DETAILS OF THE FIBERBOARD BOX SEE ARDEC DRAWING 13005866-1. THE LARGE REAR (LOWER), LARGE REAR (UPPER) LARGE SIDEWALL, AND EMPTY FIBERBOARD BOXES, ALL HAVE THE SAME DIMENSIONS.

BOX DIMENSIONS: 18-5/8" LONG X 11-1/2" WIDE X 13-3/4" HIGH BOX CUBE: 1.7 CUBIC FEET BOX WEIGHT (ALL ARMOR TILES): 70 POUNDS

BOX WEIGHT (EMPTY BOX): 5 POUNDS

C. THE FOLLOWING AMC DRAWINGS ARE APPLICABLE FOR OUTLOAD-ING AND STORAGE OF THE ITEMS COVERED BY THIS APPENDIX.

CARLOADING - - - - - - - 19-48-4115-5PA1002 TRUCKLOADING - - - - - - - 19-48-4117-11PA1003 STORAGE - - - - - - - 19-48-4118-1-2-3-4-14-22PA1002 END OPENING ISO CONTAINER - 19-48-4153-15PA1002 SIDE OPENING ISO CONTAINER - 19-48-4267-15PA1009

- D. UNLESS OTHERWISE SPECIFIED, A MANUFACTURING TOLERANCE OF PLUS-OR-MINUS 1/4" IS ALLOWED ON ALL DIMENSIONS. HOW-EVER, SIMILAR PIECES IN AN ASSEMBLY MUST BE WITHIN 1/8" OF THE SAME DIMENSION.
- E. INSTALL EACH HORIZONTAL, LOAD OR TIEDOWN STRAP TO BE LO-CATED AS SHOWN. HORIZONTAL STRAPS MUST BE TENSIONED AND SEALED PRIOR TO THE APPLICATION OF TIEDOWN AND LOAD STRAPS. LOAD STRAPS MUST BE TENSIONED AND SEALED AFTER THE HORIZONTAL STRAPS AND PRIOR TO THE TIEDOWN STRAPS.
- WHEN APPLYING ANY STRAP, CARE MUST BE EXERCISED TO AS-SURE 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 SUBSE-QUENT TIGHTENING OF LOOSENED STRAPPING. RETENSIONING CAN BE ACCOMPLISHED WITHOUT REPLACING STRAPPING OR SPLICING STRAPPING THROUGH THE USE OF A MANUAL OR PNEU-MATIC FEEDWHEEL TYPE TENSIONING TOOL AND THE APPLICA-TION OF ONE ADDITIONAL SEAL
- G. IN ORDER TO OBTAIN COMPACT AND SOUND UNITS, ALL STRAPS SHALL BE LOCATED IN PROPER ALIGNMENT AND TENSIONED UN-TIL THEY CUT INTO THE EDGE OF THE PALLET BOX AND THE PAL-LET DECK. AFTER TENSIONING, ALL STRAPS WILL BE SECURED USING ONE SEAL AND TWO PAIR OF NOTCHES PER SEAL.
- H. CLIP-LOK™ BOXES, HARDBOARD, FIBERBOARD, AND PLYWOOD ARE MANUFACTURED WOOD AND THEREFORE DO NOT REQUIRE HEAT TREATMENT.
- UNIT LOAD MARKING MUST BE APPLIED IN ACCORDANCE WITH ARDEC DRAWING 13005865.
- ARMOR TILE BOXES MUST FIT SNUGLY WITHIN THE PALLET BOX. THE UNBLOCKED SPACE WITHIN THE PALLET BOX MUST NOT EX-CEED 1/2" IN ANY DIRECTION. FILLERS SUCH AS PLYWOOD, FIBER-BOARD, HONEYCOMB FILLER, FOAM CUSHIONING MATERIAL OR HARDBOARD SHALL BE ADDED AS REQUIRED TO OBTAIN A TIGHT PACK.
- THE EMPTY FIBERBOARD BOXES WILL BE REINFORCED BY ADDING FILL MATERIAL, SUCH AS FOAM CUSHIONING, HONEYCOMB FILLER, OR PAPER, PRIOR TO LOADING.
- CONVERSION TO METRIC FOULVALENTS: DIMENSIONS WITHIN THIS DOCUMENT ARE EXPRESSED IN INCHES, AND WEIGHTS ARE EX-PRESSED IN POUNDS. WHEN NECESSARY, THE METRIC EQUIVA-LENTS MAY BE COMPUTED ON THE BASIS OF ONE INCH EQUALS 25.4MM AND ONE POUND EQUALS 0.454 KG.

PALLET UNIT DATA				
ITEMS INCLUDED		HAZARD		
NSN	DODIC	CLASS AND DIVISION	COMPAT- IBILITY GROUP	
1375- 01-528-9600 01-528-9604 01-528-9607	мР07 мР08 мР09	1. 1 1. 1 1. 1	D D D	

HAZARD CLASSIFICATION DATA CONTAINED IN THE ABOVE CHART IS FOR GUIDANCE AND INFORMATIONAL PURPOSES ONLY. VERIFICATION OF THE SPECIFIED DATA SHOULD BE MADE BY CONSULTING THE MOST RECENT JOINT HAZARD CLASSIFICATION SYSTEM LISTING OR OTHER APPROVED LISTING(S).

MATERIAL SPECIFICATIONS

PALLET BOX - - - - -: CLIP-LOK™ REFERENCE NUMBER CL-13005863-2; CLIP-LOK SIMPAK™ USA,

COMMERCIAL TIEM DESCRIPTION A-A-PLYWOOD - - - - -: 55057, INDUSTRIAL PLYWOOD, INTERIOR WITH EXTERIOR GLUE, GRADE C-D. IF SPECIFIED GRADE IS NOT AVAILABLE, A BETTER INTERIOR OR AN EXTERIOR GRADE

MAY BE SUBSTITUTED.

STRAPPING, STEEL - -: ASTM D3953; FLAT STRAPPING, TYPE 1, HEAVY DUTY, FINISH B (GRADE 2), SIZE 3/4" OR 1-1/4" x .035" OR .031", NOTE: BRITE OR SLIT EDGES SHALL

HAVE FINISH A OVERLAY.

ASTM D3953; CLASS H, FINISH B (GRADE SEAL, STRAP - - - -: 2), DOUBLE NOTCH TYPE, STYLE I, II, III, OR IV. ALTERNATIVE SEAL FINISH: SIGNODE OR DELTA PAINTED SEALS

MAY BE USED AS AN ALTERNATIVE IF ALL SURFACES ARE PAINTED. GRITTED BACK-

ING IS NOT PERMITTED.

HARDBOARD - - - - -: ANSI/AHA A135.4, CLASS 1.

FIBERBOARD - - - -: ASTM D4727.

HONEYCOMB FILLER - -: FIBERBOARD, FACING PAPER WEIGHT 69

POUNDS/1,000 SQUARE FEET, CORE PAPER WEIGHT 33 POUNDS/1,000 SQUARE FEET, 1/2" CORE CELL CENTERS, PACTIV COR-

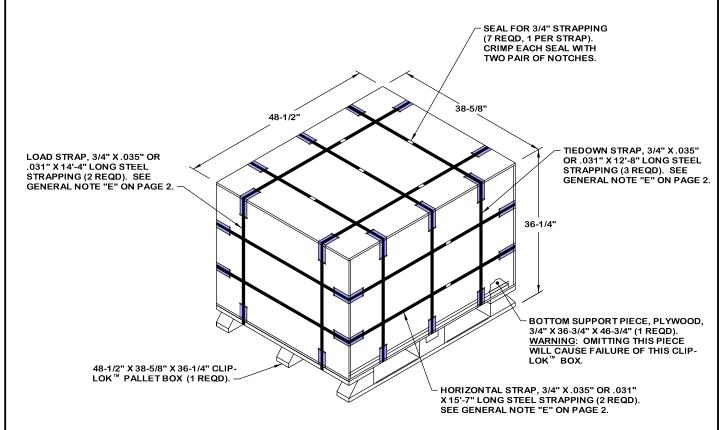
PORATION (OR EQUAL).

FOAM CUSHIONING

<u>MATERIAL</u> - - - - -: COMMERCIAL ITEM DESCRIPTION A-A-59136, CLASS 1, TYPE III, GRADE A,

OR COMMERCIAL EQUIVALENT.

PAPER - - - - - -: COMMERCIAL ITEM DESCRIPTION A-A-203.



PALLET UNIT

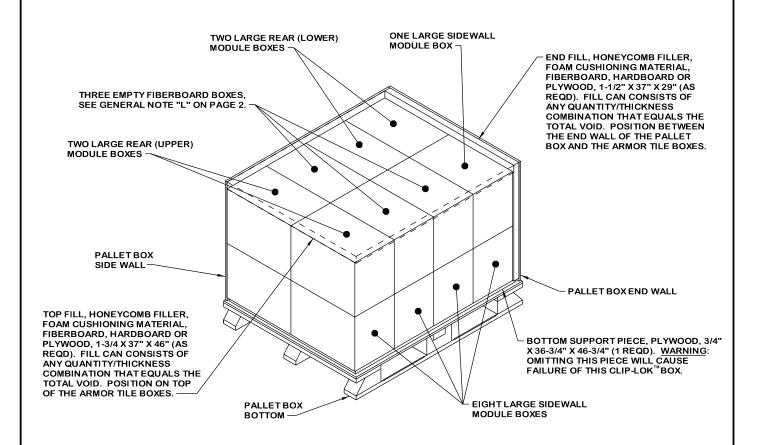
BILL OF MATERIAL		
PALLET BOX, CLIP-LOK [™] 1 REQD STEEL STRAPPING, $3/4$ " - 97.83' REQD SEAL FOR $3/4$ " STRAPPING 7 REQD FIBERBOARD, $1/2$ " 7.45 SQ FT REQD FIBERBOARD, $3/4$ " 11.82 SQ FT REQD HONEYCOMB, 1 " 19.27 SQ FT REQD	8. 74 0. 62 1. 48	LBS NIL LBS LBS

SPECIAL NOTES:

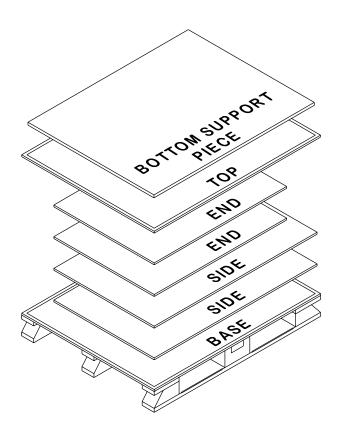
- 1. SOURCE OF SUPPLY: THE CLIP-LOK™ REFERENCE NUMBER CL-13005863-2 HAS BEEN APPROVED FOR USE. THIS PALLET BOX CAN BE OBTAINED FROM CLIP-LOK SIMPAK™ USA, INC., 1-800-448-CLIP
- 2. OTHER VENDERS' PALLET BOXES MAY BE QUALIFIED FOR USE BY SUBMITTING SAMPLE BOXES TO THE DEFENSE AMMUNITION CENTER, 1 C TREE ROAD, MCALESTER, OK 74501-9053.

 CONTACT THE TACOM-ARDEC PACKAGING OFFICE, AMSTA-ARWEP-RP, TELEPHONE 309-782-8205, E-MAIL WEP-R@RIA. ARMY.MIL, OR THE DAC TRANSPORTATION ENGINEERING DIVISION, SJMACDET, TELEPHONE 918-420-8927, E-MAIL SJMAC-DET@DAC.ARMY.MIL.

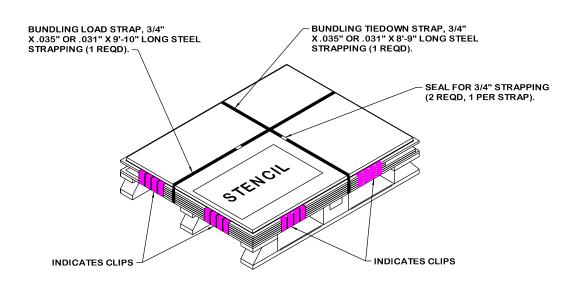
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PALLET UNIT INTERNAL DUNNAGE

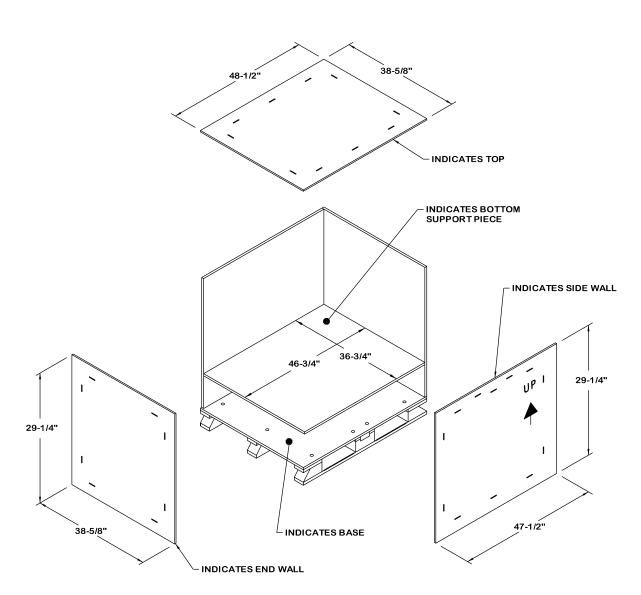


STACKING FOR COLLAPSED CLIP-LOK[™] BOX



COLLAPSED BOX

SEE THE STENCIL DETAIL ON PAGE 6.



STENCIL (FOR APPLICATION TO BOTTOM SUPPORT PIECE)

SPECIAL NOTES:

- 1. THE DETAIL DEPICTED ABOVE WILL BE STENCILED ON THE BOTTOM SUPPORT PIECE TO SHOW ASSEMBLY INSTRUCTIONS. SEE THE "COLLAPSED BOX" DETAIL ON PAGE 5.
- 2. AN ARROW WITH UP WILL BE STENCILED ON THE SIDE PIECES AS SHOWN TO ENSURE THE STACKING SLOTS ARE ON TOP.