UNITIZATION PROCEDURES FOR BRADLEY ARMOR TILES UNITIZED IN PALLET BOXES

BRADLEY REACTIVE ARMOR TILE SIDE SKIRT (BRASS), XM33, UNITIZED 14 PER PALLET BOX

DISTRIBUTION STATEMENT A:

APPROVED FOR PUBLIC RELEASE DISTRIBUTION IS UNLIMITED.

U.S. ARMY MATERIEL COMMAND DRAWING

APPROVED, U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND CAUTION: VERIFY PRIOR TO USE AT WWW.DAC.ARMY.MIL THAT THIS IS REHMSTEDT.MA Digitally signed by REHMSTEDT.MARK.J.12305 DN: c=US, o=U.S. Governmen THE MOST CURRENT VERSION OF THIS DOCUMENT. THIS IS PAGE 1 OF 6. RK.J.1230548400 ou-PKI, ou-USA, on-REHMSTEDT.MARK.J.1230548400 Date: 2014.04.03 06:51:32 -06:00 RDAR-EIL-TP DO NOT SCALE APPROVED, U.S. ARMY JOINT MUNITIONS COMMAND **APRIL 2009** CASILLAS.GILBE CASILLAGET J.120303644
CASILLAGE CASILLAGE CASILLAGET J.120303644
RT.J.12303393644
CASILLAG GILBERT J.120303644
CASIL **ENGINEER** BASIC RICHARD GARSIDE TECHNICIAN **RICHARD GARSIDE** AMS.JM-LIT **REVISION NO. 2 APRIL 2014** TRANSPORTATION APPROVED BY ORDER OF COMMANDING FIEFFER.LAUR **ENGINEERING** GENERAL, U.S ARMY MATERIEL COMMAND SEE THE REVISION LISTING ON PAGE 2 A.A.1230375727 ou-Dig DIVISON BARICKMAN. Digitally signed by BARICKMAN PHE DN: crul S, or U.S. PHILIP. W. 123 CLASS DIVISION DRAWING TESTED VALIDATION SHIMP.UPTON Digitally signed by SHIMP.UPTON.R.1231257183 DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA. **ENGINEERING** DIVISON 0202202 .R.1231257183 ou=PKI, ou=USA, cn=SHIMP.UPTON.R.1231257183 Date: 2014.04.28 08:36:37-05'00' 4221/28 20PA1009 19 48 BEAVER.JERRY BE **ENGINEERING** DIRECTORATE W 1230949952 U.S. ARMY DEFENSE AMMUNITION CENTER

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-
- B. FOR DETAILS OF THE FIBERBOARD BOX, SEE ARDEC DRAWING 13023043.

BOX DIMENSIONS: 20-1/8" LONG X 13-7/8" WIDE X 11-1/8" HIGH BOX CUBE: 1.8 CUBIC FEET BOX WEIGHT: 98 POUNDS

THE FOLLOWING AMC DRAWINGS ARE APPLICABLE FOR OUTLOADING AND STORAGE OF THE ITEMS COVERED BY THIS APPENDIX.

CARLOADI NG - - - 19-48-4115-5PA1002 TRUCKLOADI NG - - 19-48-4117-11PA1003 STORAGE - - - 19-48-4118-1-2-3-4-14-22PA1002 STORAGE - - - END OPENING ISO CONTAI NER - - - - 19-48-4153-15PA1002
MI LVAN - - - - 19-48-4166-15PA1003
SIDE OPENI NG I SO
CONTAI NER - - - 19-48-4267-15PA1009

- D. UNLESS OTHERWISE SPECIFIED. A MANUFACTURING TOLERANCE OF PLUS-OR-MINUS 1/4" IS ALLOWED ON ALL DIMENSIONS. HOWEVER, SIMILAR PIECES IN AN ASSEMBLY MUST BE WITHIN 1/8" OF THE SAME DIMENSION.
- E. INSTALL EACH HORIZONTAL, LOAD OR TIEDOWN STRAP TO BE LOCATED 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.
- F. 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
- G. IN ORDER TO OBTAIN COMPACT AND SOUND UNITS, ALL STRAPS SHALL BE LOCATED IN PROPER ALIGNMENT AND TENSIONED UNTIL THEY CUT INTO THE EDGE OF THE PALLET BOX AND THE PALLET DECK. AFTER TENSIONING, ALL STRAPS WILL BE SECURED USING ONE SEAL AND TWO PAIR OF NOTCHES PER
- H. PALLET 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
- ARMOR TILE BOXES MUST FIT SNUGLY WITHIN THE PALLET BOX. THE UNBLOCKED SPACE WITHIN THE PALLET BOX MUST NOT EXCEED 1/2" IN ANY DIRECTION. FILLERS SUCH AS PLYWOOD, FIBERBOARD, HONEYCOMB FILLER FOAM CUSHIONING MATERIAL OR HARDBOARD SHALL BE ADDED AS REQUIRED TO OBTAIN A TIGHT PACK.
- 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 25.4MM AND ONE POUND EQUALS 0.454 KG.

PALLET UNIT DATA									
ITEMS INCL	UDED	*HAZARD		APPROX WEIGHT (LBS)					
NSN	DODIC	CLASS AND DIVISION	*COMPATI- BILITY GROUP						
1375- 01-570-7596	MP25	1. 2. 3	D	1, 570					

 * 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 - - - - : PackIQ REFERENCE NUMBER 13023715.

COMMERCIAL ITEM DESCRIPTION A-A-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 SUB-PLYWOOD - - - - -:

STITUTED

ASTM D3953: FLAT STRAPPING, TYPE 1, HEAVY DUTY, FINISH B (GRADE 2), SIZE 3/4" X .035" OR .031" OR .029", OR 1-1/4" X .035" OR .031". NOTE: BRITE OR SLIT EDGES SHALL HAVE FINISH A OVERLAY. STRAPPING. STEEL - -:

<u>SEAL, STRAP</u> - - - -:

ASTM D3953; CLASS H, FINISH B (GRADE 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 BACKING IS NOT

PERMITTED

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

FIBERBOARD - - - -: ASTM D4727.

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 CORPORA-TION (OR EQUAL). HONEYCOMB FILLER - -: FIBERBOARD,

FOAM CUSHI ONI NG MATERIAL - - - -

COMMERCIAL ITEM DESCRIPTION A-A-59136, CLASS 1, TYPE III, GRADE A, OR COMMERCIAL EQUIVALENT.

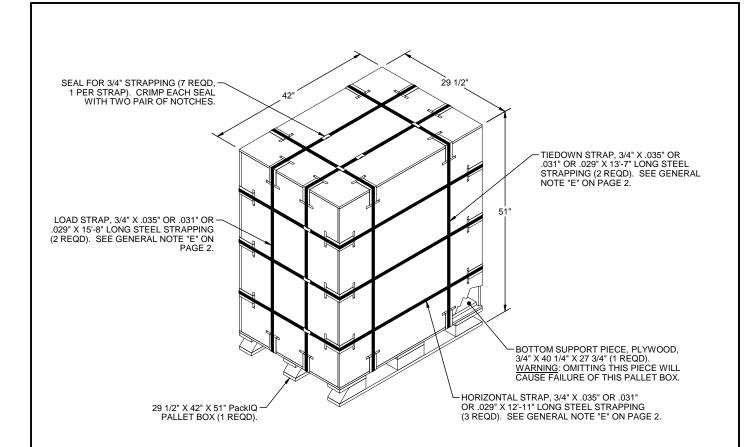
REVISIONS

REVISION NO. 1, DATED JANUARY 2010, CONSISTS OF CHANGES PER ECP R09L2006, INCLUDING:

- 1. REMOVED ONE TIEDOWN STRAP, ADDED ONE HORIZONTAL STRAP, AND AD-JUSTED STRAP SLOTS.
- 2. REPOSITIONED TOP TWO BOXES ON PALLET UNIT AND UPDATED FILL AS NECESSARY

REVISION NO. 2, DATED APRIL 2014, CONSISTS OF CHANGES PER ECP R10B2007, INCLUDING:

- CHANGED PALLET BOX WALL DIMENSIONS AND PALLET BOX HEIGHT.
- 2. CHANGED FILL MATERIAL DIMENSIONS
- 3. UPDATED LOAD AND TIEDOWN STRAP LENGTHS
- 4. UPDATED BILL OF MATERIAL, WEIGHT AND CUBE.



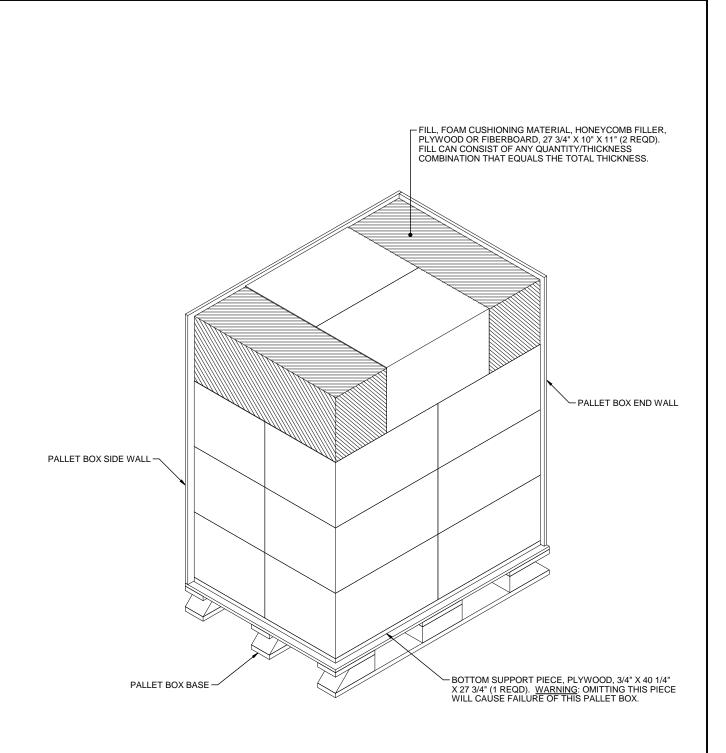
PALLET UNIT

14 BOXES OF DUNNAGE PALLET BOX	 			-	-	-	-	-	-	-	-	-	-	-	16 LBS
	TO ⁻ CUE	ΓAL W BE -	EI GHT	-	-	-	-	-	-	-	-	-	-	-	1,570 LBS (APPROX) 36,6 CU FT (APPROX)

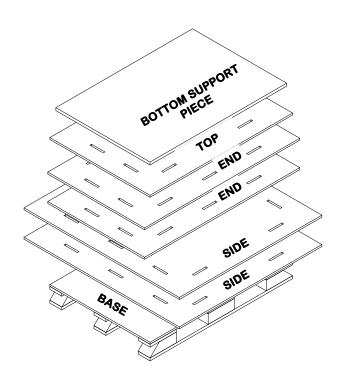
BILL OF MATERIAL
PALLET BOX, PackIQ 1 REQD 182 LBS
STEEL STRAPPING, 3/4" 97.25' REQD 8.68 LBS
SEAL FOR 3/4" STRAPPING 7 REQD NIL
HONEYCOMB, 2" 3.86 SQ FT REQD 1.28 LBS
HONEYCOMB, 3" 11.56 SQ FT REQD 5.78 LBS

SPECIAL NOTES:

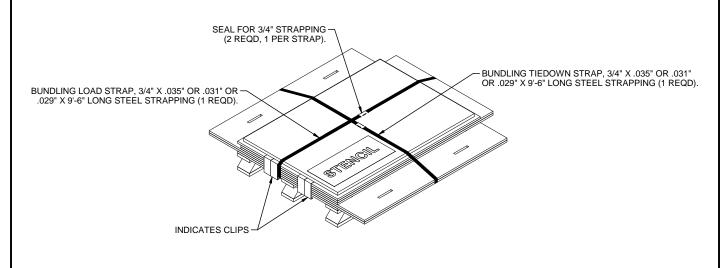
- SOURCE OF SUPPLY: THE PackIQ PALLET BOX, PART NUMBER 13023715, IS APPROVED FOR USE. THIS PALLET BOX CAN BE OBTAINED FROM PackIQ, 1640 POWERS FERRY ROAD, BUILDING 22, SUITE 100, MARIETTA, GA, 30067, 1-404-242-0828, www.packIQ.com.
- 2. OTHER VENDORS' PALLET BOXES MAY BE QUALIFIED FOR USE BY SUBMITTING SAMPLE BOXES TO THE DEFENSE AMMUNITION CENTER, 1 C TREE ROAD, MCALESTER, OK 74501-9053. CONTACT THE DAC TRANSPORTATION ENGINEERING DIVISION, JMAC-DET, TELEPHONE 918-420-8927, E-MAIL usarmy.mcalester.usamc.mbx.dac-det@mail.mil.



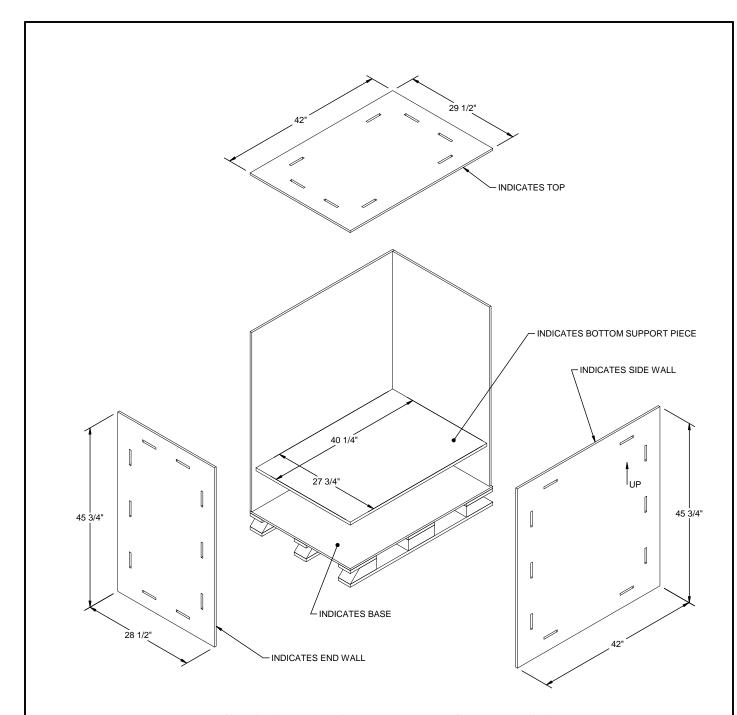
PALLET UNIT INTERNAL DUNNAGE SEE GENERAL NOTE "K" ON PAGE 2.



STACKING FOR COLLAPSED PALLET BOX



COLLAPSED BOX
SEE THE STENCIL DETAIL ON PAGE 6.



STENCIL (FOR APPLICATION TO BOTTOM SUPPORT PIECE)

SPECIAL NOTES:

- THE DETAIL DEPICTED ABOVE WILL BE STENCILED ON THE BOTTOM SUPPORT PIECE TO SHOW ASSEMBLY INSTRUC-TIONS. 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.