

UNITIZATION PROCEDURES FOR STRYKER ARMOR TILE SET UNITIZED IN PALLET BOXES

PASSIVE TILES - FRONT

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U.S. ARMY MATERIEL COMMAND DRAWING

APPROVED, U.S. ARMY FIELD SUPPORT COMMAND <i>David L. Prohaska</i> AMS RD-AAR-AIL-TP TPR		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	
APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND <i>[Signature]</i> SFSJM-LIT		ENGINEER OR TECHNICIAN	BASIC REV.	LAURA A. FIEFFER	
		TRANSPORTATION ENGINEERING DIVISION	<i>Laura A. Fieffer</i>		
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U.S. ARMY DEFENSE AMMUNITION CENTER <i>[Signature]</i>		ENGINEERING DIRECTORATE	<i>[Signature]</i>		
			CLASS	DIVISION	DRAWING
			19	48	4221/15
					FILE
					20PA1009

GENERAL NOTES

A. 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.

B. FOR DETAILS OF THE UPPER GLACIS LARGE (TOP AND BOTTOM) AND THE UPPER GLACIS L-BOX (TOP AND BOTTOM) FIBERBOARD BOX SEE ARDEC DRAWING 13005866-2.

BOX DIMENSIONS: 20-1/4" LONG X 5-11/16" WIDE X 17-1/2" HIGH
 BOX CUBE: 1.2 CUBIC FEET
 BOX WEIGHT (ALL TYPES): 75 POUNDS

C. FOR DETAILS OF THE UPPER GLACIS SMALL (TOP AND BOTTOM) FIBERBOARD BOX SEE ARDEC DRAWING 13005866-3.

BOX DIMENSIONS: 14-5/8" LONG X 5-11/16" WIDE X 17-1/2" HIGH
 BOX CUBE: 0.8 CUBIC FEET
 BOX WEIGHT (ALL TYPES): 60 POUNDS

D. THE FOLLOWING AMC DRAWINGS ARE APPLICABLE FOR OUTLOADING 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
- MILVAN - - - - - 19-48-4166-15PA1003
- SIDE OPENING ISO CONTAINER - 19-48-4267-15PA1009

E. 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.

F. 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.

G. 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.

H. 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 SEAL.

J. CLIP-LOK™ BOXES, HARDBOARD, FIBERBOARD, AND PLYWOOD ARE MANUFACTURED WOOD AND THEREFORE DO NOT REQUIRE HEAT TREATMENT.

K. UNIT LOAD MARKING MUST BE APPLIED IN ACCORDANCE WITH ARDEC DRAWING 130058665.

L. 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.

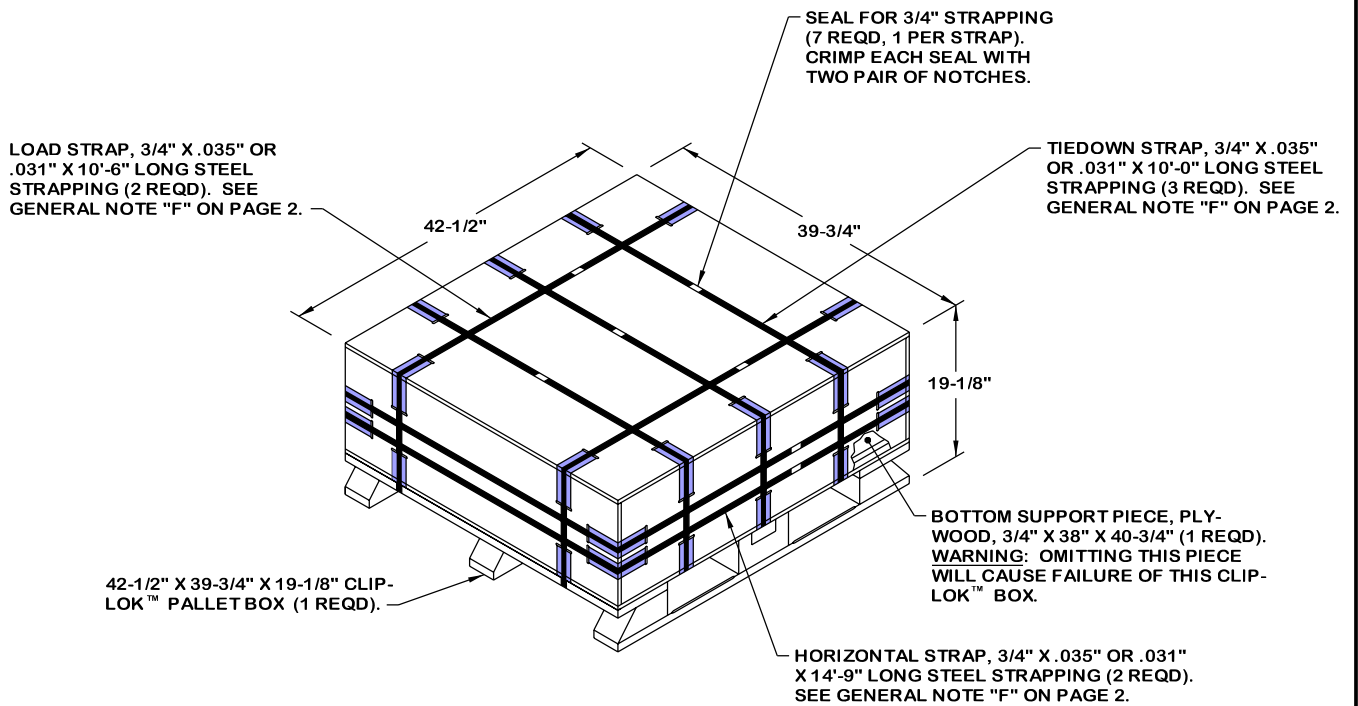
M. CONVERSION TO METRIC EQUIVALENTS: DIMENSIONS WITHIN THIS DOCUMENT ARE EXPRESSED IN INCHES, AND WEIGHTS ARE EXPRESSED IN POUNDS. WHEN NECESSARY, THE METRIC EQUIVALENTS MAY BE COMPUTED ON THE BASIS OF ONE INCH EQUALS 25.4MM AND ONE POUND EQUALS 0.454 KG.

PALLET UNIT DATA			
ITEMS INCLUDED		HAZARD CLASS AND DIVISION	COMPATIBILITY GROUP
NSN	DODIC		
2540-			
01-523-4520	UNAS	_____ INERT _____	
01-523-4528	UNAS	_____ INERT _____	
01-523-4529	UNAS	_____ INERT _____	
01-523-4530	UNAS	_____ INERT _____	
01-523-4532	UNAS	_____ INERT _____	
01-523-4533	UNAS	_____ INERT _____	

• 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-13005863-3; CLIP-LOK SIMPAK™ USA, INC.
- PLYWOOD - - - - -: 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 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.
- SEAL, STRAP - - - -: 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.
- 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 CORPORATION (OR EQUAL).
- FOAM CUSHIONING MATERIAL - - - - -: COMMERCIAL ITEM DESCRIPTION A-A-59136, CLASS 1, TYPE III, GRADE A, OR COMMERCIAL EQUIVALENT.



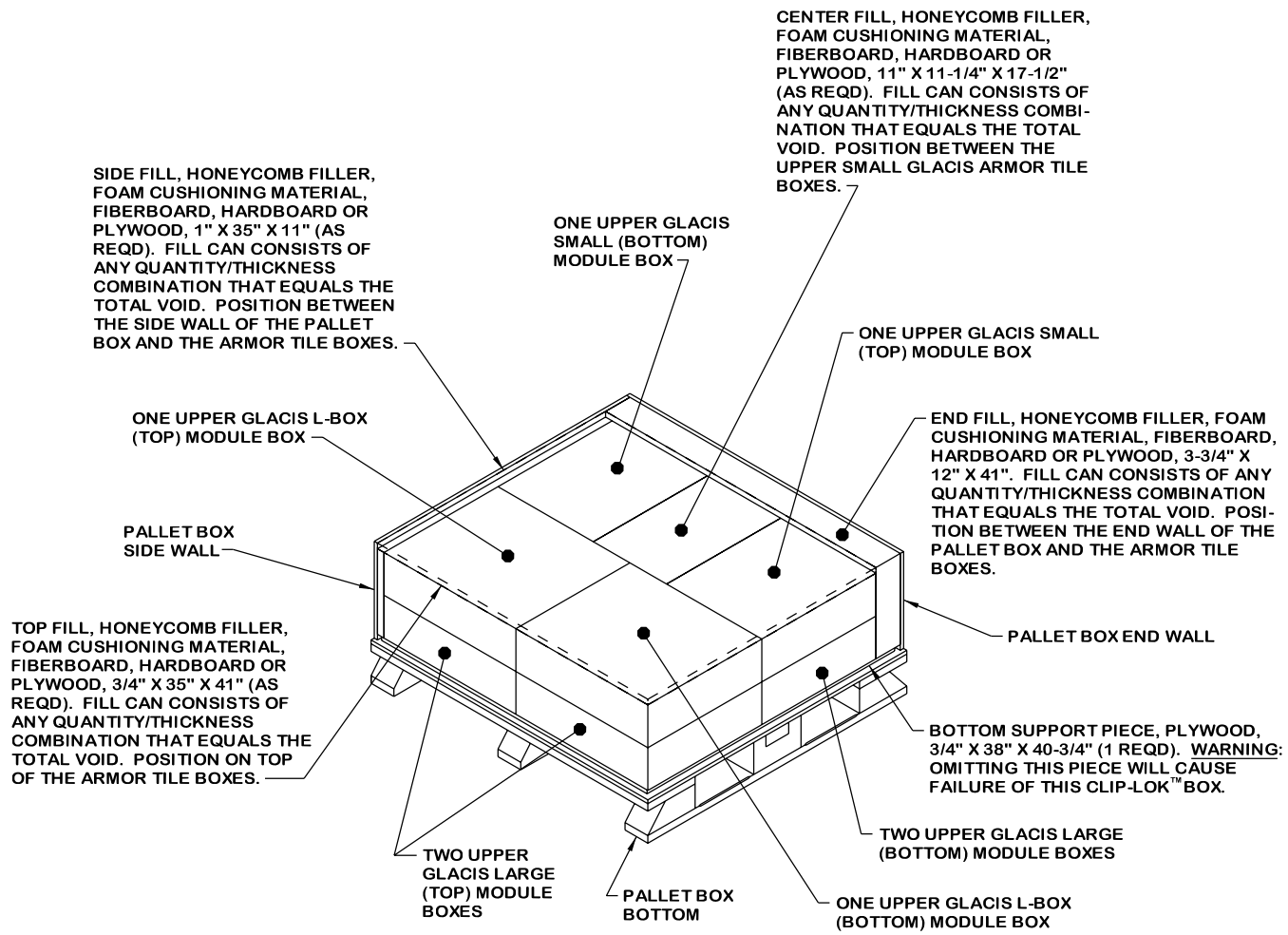
PALLET UNIT

2 BOXES OF UPPER GLACIS LARGE (BOTTOM) MODULES @ 75 LBS	--	150 LBS (APPROX)
2 BOXES OF UPPER GLACIS LARGE (TOP) MODULES @ 75 LBS	--	150 LBS (APPROX)
1 BOX OF UPPER GLACIS SMALL (BOTTOM) MODULES @ 60 LBS	--	60 LBS (APPROX)
1 BOX OF UPPER GLACIS SMALL (TOP) MODULES @ 60 LBS	--	60 LBS (APPROX)
1 BOX OF UPPER GLACIS L-BOX (BOTTOM) MODULES @ 75 LBS	--	75 LBS (APPROX)
1 BOX OF UPPER GLACIS L-BOX (TOP) MODULES @ 75 LBS	--	75 LBS (APPROX)
DUNNAGE	--	15 LBS
PALLET BOX	--	100 LBS
<hr/>		
TOTAL WEIGHT	--	685 LBS (APPROX)
CUBE	--	18.7 CU FT (APPROX)

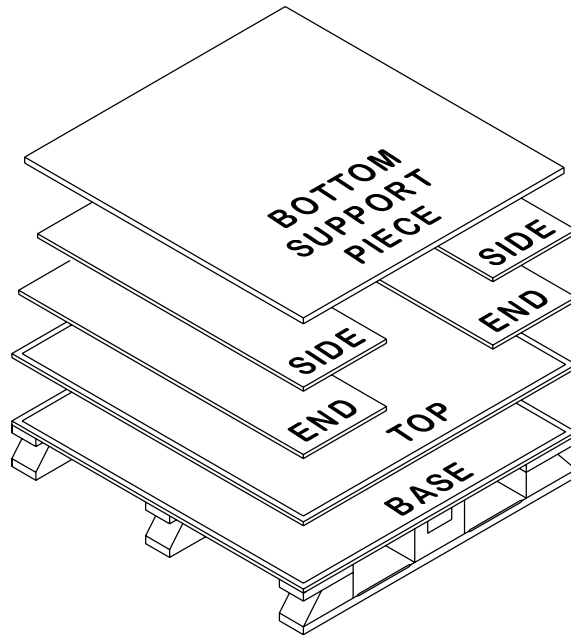
BILL OF MATERIAL			
PALLET BOX, CLIP-LOK™	--	1 REQD	-- 100 LBS
STEEL STRAPPING, 3/4"	--	80.50 ¹ REQD	-- 7.19 LBS
SEAL FOR 3/4" STRAPPING	--	7 REQD	-- NIL
FIBERBOARD, 3/4"	--	13.38 SQ FT REQD	-- 1.67 LBS
HONEYCOMB, 1"	--	2.67 SQ FT REQD	-- 0.58 LBS
HONEYCOMB, 3"	--	4.78 SQ FT REQD	-- 3.09 LBS
HONEYCOMB, 4"	--	2.73 SQ FT REQD	-- 2.36 LBS

SPECIAL NOTES:

1. SOURCE OF SUPPLY: THE CLIP-LOK™ REFERENCE NUMBER CL-13005863-3 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, SJMAC-DET, TELEPHONE 918-420-8927, E-MAIL SJMAC-DET@DAC.ARMY.MIL.



PALLET UNIT INTERNAL DUNNAGE

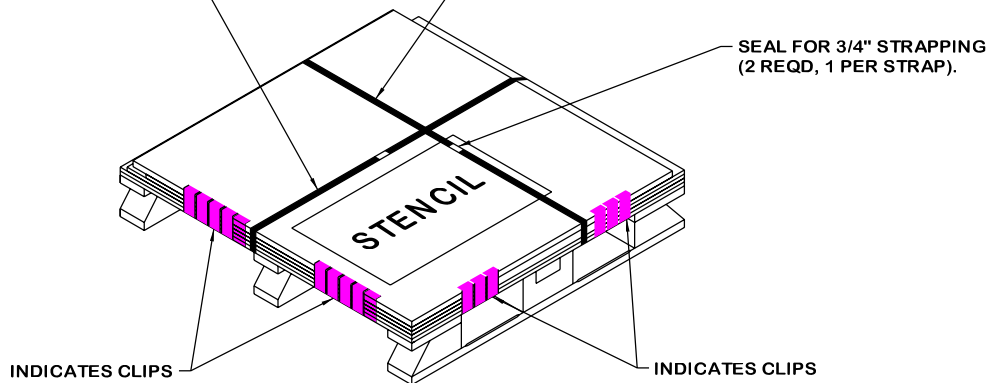


STACKING FOR COLLAPSED CLIP-LOK™ BOX

BUNDLING LOAD STRAP, 3/4" X .035" OR .031" X 8'-2" LONG STEEL STRAPPING (1 REQD).

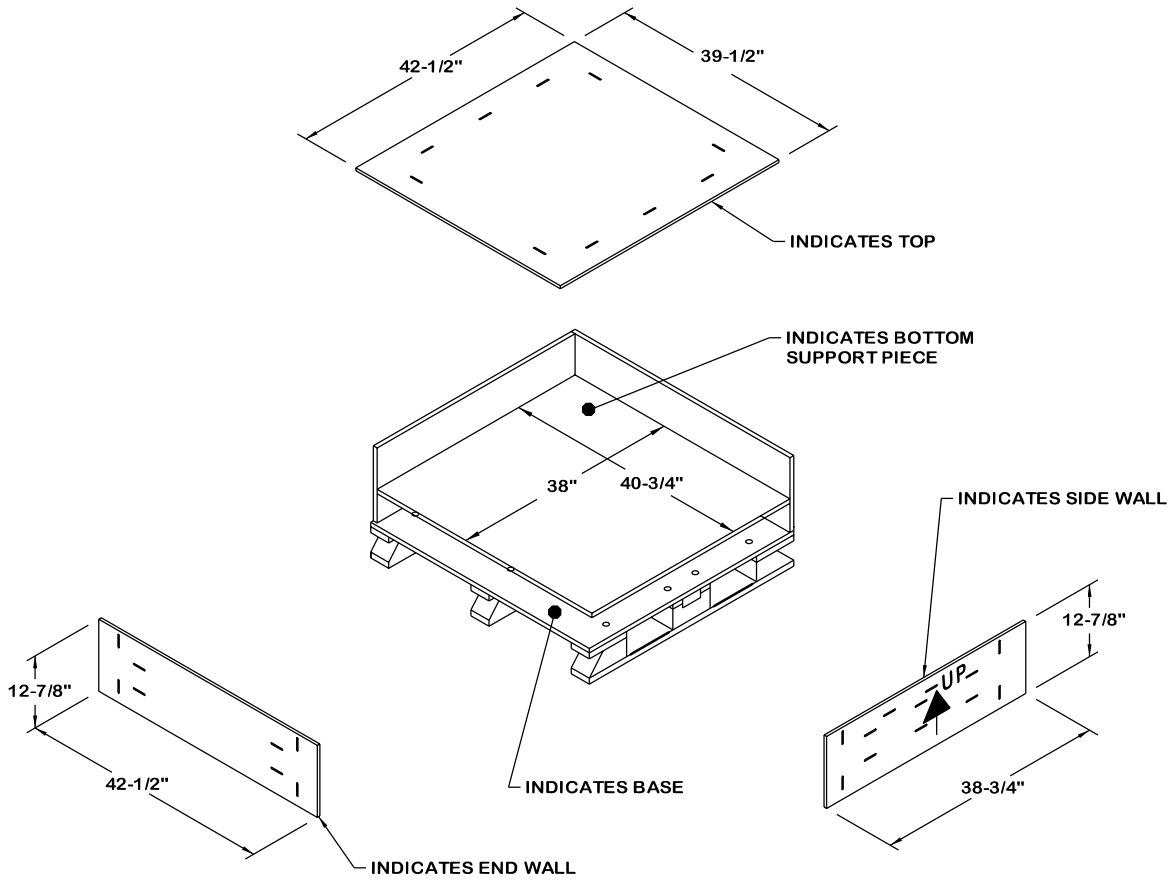
BUNDLING TIEDOWN STRAP, 3/4" X .035" OR .031" X 8'-9" LONG STEEL STRAPPING (1 REQD).

SEAL FOR 3/4" STRAPPING (2 REQD, 1 PER STRAP).



COLLAPSED BOX

SEE THE STENCIL DETAIL ON PAGE 6. NOTE: IF CLIPS CANNOT BE SECURELY ATTACHED TO COLLAPSED BOX, PLACE INSIDE A PLASTIC BAG AND SECURE TO THE PALLET BOX BASE SKID WITH STAPLES.



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.