APPROVED BY
BUREAU OF EXPLOSIVES

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DATE 12/2/00

APPENDIX 41

LOADING AND BRACING PROCEDURES FOR STRATEGIC CONFIGURED LOAD (SCL) ON CONTAINER ROLL IN/OUT PLATFORM (CROP)

SCL #41-120MM HE M934

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<u>NOTICE</u>: THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC CROP OUTLOADING PROCEDURES DRAWING 19-48-4905-CA17Q6.

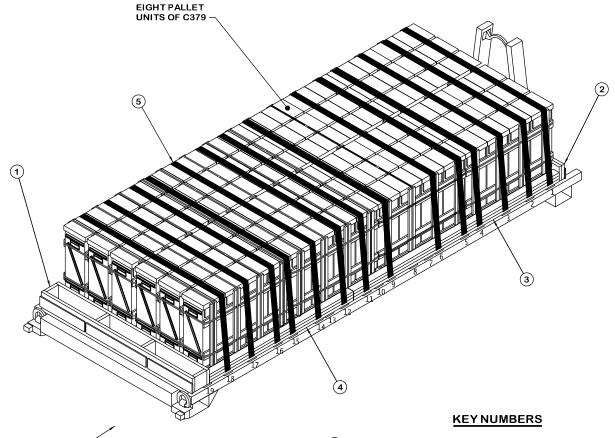
● LOADING AND BRACING SPECIFICATIONS SET FORTH WITHIN THIS DRAWING ARE APPLICABLE TO LOADS THAT ARE TO BE SHIPPED BY TRAILER/CONTAINER-ON-FLATCAR (T/COFC) RAIL CARRIER SERVICE. THESE SPECIFICATIONS MAY ALSO BE USED FOR LOADS THAT ARE TO BE MOVED BY MOTOR OR WATER CARRIERS.

U.S. ARMY MATERIEL COMMAND DRAWING

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APPROVED, U.S. ARMY OPERATIONS SUPPORT COMMAND	ENGINEER	BASIC		DO NOT SCALE				
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	DKAFISMAN	REV.	,					
APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND	TRANSPORTA ENGINEERII DIVISION	NG	Haura a. Feefer					
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U.S. ARMY DEFENSE AMMUNITION CENTER	ENGINEERIN DIRECTOR		Johning L.Cook	19	48	4905/	CA17Q6	

PROJECT CAP-TV 6/41-00





- AFT FILLER ASSEMBLY (1 REQD). SEE DETAIL ON PAGE 5. CENTER FILLER ASSEMBLY AGAINST AFT CROP END GATE WITH CLEATS POSITIONED IN THE FORWARD DIRECTION. AFTER THE PALLET UNITS ARE LOADED, NAIL W/2-12d NAILS THRU THE SLOTS IN THE AFT CROP END GATE INTO THE AFT FILLER ASSEMBLY, LEAVING THE NAIL HEADS PROTRUDING THRU THE SLOTS TO PROVIDE LATERAL RESTRAINT.
- (2) FORWARD FILLER, 1" OR 2" X 8" X 7"-4" (AS REQD). LAMINATE BOARDS W/8 NAILS OF SUITABLE SIZE (10d NAILS FOR 2" THICK MATERIAL). POSITION FILLER PIECE AGAINST THE FORWARD CROP END GATE AND CENTER ON THE CROP. AFTER THE PALLET UNITS ARE LOADED, NAIL THROUGH THE HOLES IN THE FORWARD CROP END GATE W/2-12d NAILS INTO THE FORWARD FILLER PIECE, LEAVING THE NAIL HEADS PROTRUDING THROUGH THE HOLES TO PROVIDE LATERAL AND VERTICAL RESTRAINT.
- (3) SIDE BLOCKING ASSEMBLY A (2 REQD). POSITION ASSEMBLY AT THE FORWARD END OF THE CROP ON EITHER SIDE WITH THE CLEATS PROTRUDING UNDER THE PALLET UNITS. NOTE: NAIL THROUGH THE STRAP ATTACHMENT SLOTS OF THE WEB STRAPS INTO THE SIDE BLOCKING ASSEMBLY AT TIEDOWN ANCHOR LOCATIONS 2, 5, AND 9 ON BOTH SIDES OF THE CROP W/1-10d PARTIALLY DRIVEN NAIL AND BEND OVER SIDE OF HOOK.
- (4) SIDE BLOCKING ASSEMBLY B (2 REQD). POSITION ASSEMBLY AT THE AFT END OF THE CROP ON EITHER SIDE WITH THE CLEATS PROTRUDING UNDER THE PALLET UNITS. NOTE: NAIL THROUGH THE STRAP ATTACHMENT SLOTS OF THE WEB STRAPS INTO THE SIDE BLOCKING ASSEMBLY AT TIEDOWN ANCHOR LOCATIONS 12, 15, AND 18 ON BOTH SIDES OF THE CROP W/1-10d PARTIALLY DRIVEN NAIL AND BEND OVER SIDE OF HOOK.
- (5) HOLD-DOWN STRAP, 3-INCH WIDE WEB STRAP TIEDOWN ASSEMBLY FOR CROP (14 REQD). INSTALL EACH HOLD-DOWN STRAP TO EXTEND FROM THE DESIGNATED TIEDOWN ANCHOR ON ONE SIDE OF CROP, OVER THE TOP OF THE PALLET UNITS TO THE CORRESPONDING TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE CROP. ALIGN SCUFF SLEEVES OVER ALL SHARP EDGES AND FIRMLY TENSION STRAP. SEE GENERAL NOTE "F" ON PAGE 3.

AFT END OF CROP

ISOMETRIC VIEW

RECOMMENDED SEQUENTIAL PROCEDURES

- 1. PREFABRICATE THE AFT FILLER ASSEMBLY, TWO SIDE BLOCKING ASSEMBLIES "A", AND TWO SIDE BLOCKING ASSEMBLIES "B".
- 2. POSITION THE AFT FILLER ASSEMBLY, PIECE MARKED ①, TIGHT AGAINST THE AFT CROP END GATE WITH THE CLEATS FACING FORWARD. CENTER THE FILLER ASSEMBLY ON THE GATE.
- 3. PLACE TWO C379 PALLET UNITS ON THE CROP AS SHOWN ON PAGE 2. PALLET UNITS SHALL BE CENTERED ON THE CROP AND TIGHT AGAINST THE AFT FILLER ASSEMBLY WITH THE CLEATS ON THE FILLER ASSEMBLY PROTRUDING UNDER THE TWO PALLET UNITS. NAIL TWO 12d RETAINER NAILS INTO THE AFT FILLER ASSEMBLY AS INSTRUCTED IN KEY NUMBER (1).
- LOAD TWO C379 PALLET UNITS SO THAT THE PALLET UNITS ARE CENTERED ON THE CROP AND TIGHT AGAINST THE PREVIOUSLY LOADED ROW OF PALLET UNITS.
- 5. REPEAT STEP 4 UNTIL ALL EIGHT PALLET UNITS ARE LOADED.
- 6. CENTER THE FORWARD FILLER AGAINST THE FRONT PALLET UNITS. LAMINATE FILLER PIECES AS REQUIRED. NAIL TWO 12d RETAINER NAILS INTO THE FORWARD FILLER AS INSTRUCTED IN KEY NUMBER (2).
- 7. INSTALL THE TWO SIDE BLOCKING ASSEMBLIES "A" AS NOTED IN KEY NUMBER $\ensuremath{\mathfrak{G}}$.
- 8. INSTALL THE TWO SIDE BLOCKING ASSEMBLIES "B" AS NOTED IN KEY NUMBER (4).
- 9. INSTALL THE FOURTEEN HOLD-DOWN STRAPS AS NOTED IN KEY NUMBER (§).

GENERAL NOTES

- A. THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC LOADING PROCEDURES DRAWING 19-48-4905-CA17Q6. TO PRODUCE AN APPROVED LOAD, ALL PERTINENT PROCEDURES, SPECIFICATIONS AND CRITERIA SET FORTH WITHIN THE BASIC DRAWING WILL APPLY TO THE PROCEDURES DELINEATED IN THIS APPENDIX. ANY EXCEPTIONS TO THE BASIC PROCEDURES ARE SPECIFIED IN THIS APPENDIX.
- B. THE OUTLOADING PROCEDURES DEPICTED IN THIS DRAWING ARE APPLICABLE TO LOADS OF SCL #41. SEE PAGE 4 FOR DETAIL OF THE PALLET UNIT. AN M3A1 (HYUNDAI) CROP IS SHOWN AS TYPICAL. OTHER MANUFACTURER'S CROPS CAN BE USED FOR THE LOAD SHOWN ON PAGE 2. THE SEQUENTIAL LOADING PROCEDURES DEPICTED AT LEFT DESCRIBE THE SEQUENCE USED TO LOAD AN M3A1 CROP. FOR AN M3 (SUMMA) CROP, SEQUENTIAL LOADING PROCEDURES 2 THROUGH 6 MUST BE REVERSED. ACTUAL CROP CONFIGURATION WILL DETERMINE WHETHER THE SEQUENTIAL LOADING STARTS AT THE AFT OR THE FORWARD END OF THE CROP.
- C. THE LOADING PROCEDURES DEPICTED HEREIN MAY ALSO BE USED FOR OUTLOADING SIMILAR SCL LOADS WHEN IDENTIFIED BY DIFFERENT NATIONAL STOCK NUMBERS (NSN) THAN WHAT IS SHOWN ON PAGE 4, PROVIDED THE OVERALL PALLET UNIT DIMENSIONS DO NOT VARY FROM WHAT IS DELINEATED HEREIN.
- D. DIMENSIONS, CUBE AND WEIGHT OF THE PALLET UNITS WILL VARY SLIGHTLY DEPENDING UPON THE ACTUAL DIMENSIONS OF THE BOXES AND THE WEIGHT OF THE SPECIFIC ITEM BEING UNITIFED.
- E. DIMENSIONS GIVEN FOR DUNNAGE ASSEMBLIES WILL BE FIELD CHECKED PRIOR TO THEIR ASSEMBLY. PALLET UNITS MUST FIT SNUGLY AGAINST THE DUNNAGE ASSEMBLIES. THIS GUIDANCE MUST BE APPLIED PRIOR TO BEGINNING AN OUTLOADING OPERATION. ALSO, DUE TO VARIATION OF PALLET UNIT DIMENSIONS, ADJUSTMENTS MAY BE REQUIRED AS TO THE LOCATION OF CERTAIN PIECES ON DUNNAGE ASSEMBLIES.
- F. ALL WEB STRAP TIEDOWN ASSEMBLIES MUST HAVE THE EXCESS LENGTH OF THE STRAP SECURED. ROLL UP AND BUNDLE THE EXCESS LENGTH OF WEB STRAP, SECURING WITH CABLE TIES. SEE THE "STRAP END SECUREMENT" DETAIL AND GENERAL NOTE "K.12" IN THE BASIC PROCEDURE DRAWING 19-48-4905-CA17Q6.
- G. 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.

BILL OF MATERIAL					
LUMBER	LINEAR FEET	BOARD FEET			
2" X 3" 2" X 4" 2" X 8"	8 102 32	4 68 43			
NAILS	NO. REQD	POUNDS			
10d (3") 12d (3-1/4")	140 4	2-1/4 1/4			

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
C379 PALLET UNIT DUNNAGE CROP		233 LBS

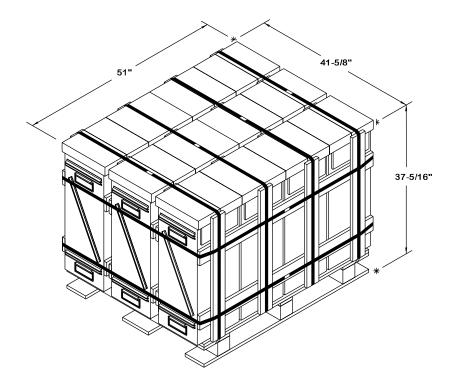
TOTAL WEIGHT - - - - - - 23,673 LBS (APPROX)

SCL #41 COMPOSITION CHART

DODIC	NSN	NOMENCL ATURE	UNIT DWG	REQD	UNITS REQD	НС
c379*	1315-01-335-5016	CARTRIDGE, 120MM HE M934 W/FUZE MO M734	4116/38A	384	8 PALLETS	1.1E

NOTE: THE DODICS LISTED BELOW MAY BE USED AS ALTERNATES FOR THE DODICS WITH MATCHING SYMBOLS SHOWN ABOVE IF THE QUANTITY OF THE DODICS SHOWN ABOVE IS INSUFFICIENT.

c623 *	1315-01-343-1941	CARTRIDGE, 120mm HE M933 W/FUZE PD M745	4116/38A		1. 1E
		, ,	1 '		4



C379 PALLET UNIT DETAIL

TOTAL METCUT	1 4 5 5	1 DC (AE	20000
PALLET	80	LBS	
DUNNAGE			
(2 PER CNTR) AT 96 LBS 2	2, 304	LBS (AF	PROX)
24 CNTRS OF IZUMM CARTRIDGES			

TOTAL WEIGHT - - - - - - - 2, 455 LBS (APPROX) CUBE - - - - - - - - 47. 9 CU FT (APPROX)

