LOADING AND BRACING (TL & LTL) IN VAN TRAILERS* OF JOINT DIRECT ATTACK MUNITION (JDAM) PACKED IN CNU-589 SHIPPING AND STORAGE CONTAINERS USING VINYL DUNNAGE AIR BAGS

INDEX

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GENERAL NOTES AN CNU-589 CONTAINE 28 UNIT LOAD IN 34 UNIT LOAD IN 51 UNIT LOAD IN TYPICAL LTL DETAILS	ER DETAIL - A 40'-0" LON		DE VAN TF DE VAN TF DE VAN TF DE VAN TF DE VAN TF	 RAILER RAILER RAILER 			- -	2 3 4-5 6-7 8-9 10 11
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U.S. ARMY MATERIEL COMMAND DRAWING								
APPROVED, U.S. ARMY FIELD SUPPORT COMMAND	<u>CAUTION</u> : VERIFY PRIOR TO USE AT WWW.DAC.ARMY.MIL THAT THIS IS THE MOST CURRENT VERSION OF THIS DOCUMENT. THIS IS PAGE 1 OF 12.							
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U.S. ARMY DEFENSE AMMUNITION CENTER	ENGINEERING DIRECTORATE	Tall.C	O.C.	19	48	87	787	SP11K8

PROJECT SP 486-03

GENERAL NOTES

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AR 740-1 AND AUGMENTS TM 743-200-1 (CHAPTER 5).
- B. THE SPECIFIED OUTLOADING PROCEDURES ARE APPLICABLE TO LOADS OF JOINT DIRECT ATTACK MUNITION (JDAM) IN CNU-589 SHIPPING AND STORAGE CONTAINERS. SUBSEQUENT REFERENCE TO CONTAINER HEREIN MEANS THE CONTAINER WITH JDAM ITEMS. SEE PAGE 3 AND PLASTICS RESEARCH CORPORATION DRAWING 103060-101 FOR DETAILS OF THE CONTAINER.
- C. THE OUTLOADING PROCEDURES DEPICTED WITHIN THIS DOCUMENT ARE AP-PLICABLE FOR SHIPMENTS IN CONVENTIONAL TYPE VAN TRAILERS AND AP-PLY TO TRAILERS HAVING WOOD, OR WOOD AND METAL, OR ALL METAL FLOORS. REGARDLESS OF THE DIMENSIONS OF THE VAN TRAILERS SHOWN, THE PROCEDURES ARE ALSO APPLICABLE FOR TRAILERS WHICH ARE 89" THRU 99" IN WIDTH AND FOR TRAILERS OF OTHER LENGTHS FROM THE SHORTEST TO THE LONGEST AVAILABLE (REF: 24'TO 53'), AND FOR STRAIGHT TRUCK VANS. THE SPECIFIED BRACING IS ADEQUATE FOR LOADS WEIGHING UP TO AND INCLUDING THE MAXIMUM WEIGHTS PERMITTED BY LAW.
- D. THE VINYL DUNNAGE AIR BAG PART NUMBER H048X48 (SIZE 48" X 48") MANUFACTURED BY CENTERLOAD SHIPPING TECHNOLOGIES AND POLYES-TER STRAPPING, PRODUCT CODE MPC5835 MANUFACTURED BY POLYCHEM CORPORATION, HAVE BEEN TESTED AND APPROVED FOR USE BY THE DE-FENSE AMMUNITION CENTER. OTHER VENDORS' AIR BAGS AND STRAPPING MAY BE QUALIFIED FOR USE BY SUBMITTING SAMPLES FOR TEST AND EVALUATION TO THE DEFENSE AMMUNITION CENTER, 1C TREE ROAD, MCALESTER, OK 74501-9053. CONTACT THE DAC TRANSPORTATION ENGI-NEERING DIVISION, SJMAC-DET, E-MAIL <u>SJMAC-DET@DAC.ARMY.MIL</u>, TELE-PHONE 918-420-8927.
- E. SELECTION OF A VEHICLE TO BE USED TO TRANSPORT THE DESIGNATED ITEM MUST COMPLY WITH AR 55-355, CHAPTER 29, FOR EXPLOSIVES AND OTHER DANGEROUS ARTICLES, IN FULL.
- F. THE GROSS WEIGHT AND AXLE DISTRIBUTION OF WEIGHT FOR A LOAD WILL BE THE RESPONSIBILITY OF THE CARRIER. THE CARRIER WILL ADVISE THE SHIPPER OF APPLICABLE LOADING REQUIREMENTS, AND THE SHIPPER WILL LOAD ACCORDINGLY. THE TOTAL WEIGHT OF THE LADING, OF THE DUN-NAGE, OF THE TRAILER, AND OF THE SEMI-TRAILER CARRYING THE LADING MUST NOT EXCEED THE MAXIMUM GROSS WEIGHT ALLOWED FOR THE STATE OR STATES THROUGH WHICH THE LOAD IS TO BE TRANSPORTED BY MOTOR CARRIER. LIKEWISE, THE GROSS WEIGHT ON A SINGLE OR TANDEM AXLE MUST NOT EXCEED THE MAXIMUM ALLOWABLE WEIGHT. IF THERE IS ANY DOUBT AS TO WHETHER THE TOTAL GROSS WEIGHT OR AXLE WEIGHT EX-CEEDS THE MAXIMUM ALLOWED, WEIGHT SHOULD BE VERIFIED BY ACTU-ALLY WEIGHING THE LOADED VEHICLE.
- G. <u>NOTICE</u>: A SHIPMENT WILL BE POSITIONED ON A TRAILER CONSISTENT WITH STATE WEIGHT LAWS. THE NUMBER OF LADING UNITS MAY BE ADJUSTED TO FIT THE SIZE OF THE TRAILER TO BE LOADED OR THE QUANTITY TO BE SHIPPED. COMBINATIONS OF THE OUTLOADING PROCEDURES SPECIFIED MAY BE USED, HOWEVER, THE APPROVED METHODS SHOWN MUST BE FOL-LOWED AS CLOSELY AS POSSIBLE FOR BLOCKING, BRACING, AND STAYING OF THE DESIGNATED ITEMS.
- H. THE "LOAD AS SHOWN" FOR THE 51 UNIT LOAD SHOWN ON PAGE 8 IS BASED ON AN APPROXIMATE LADING WEIGHT OF 32,000 POUNDS. THE SPECIFIED BLOCKING AND BRACING FOR THE FULL LOADS IS ADEQUATE FOR THE RE-TENTION OF LOADS, UP TO 45,000 POUNDS, IF IT IS DESIRED TO INCREASE THE LADING WEIGHT.

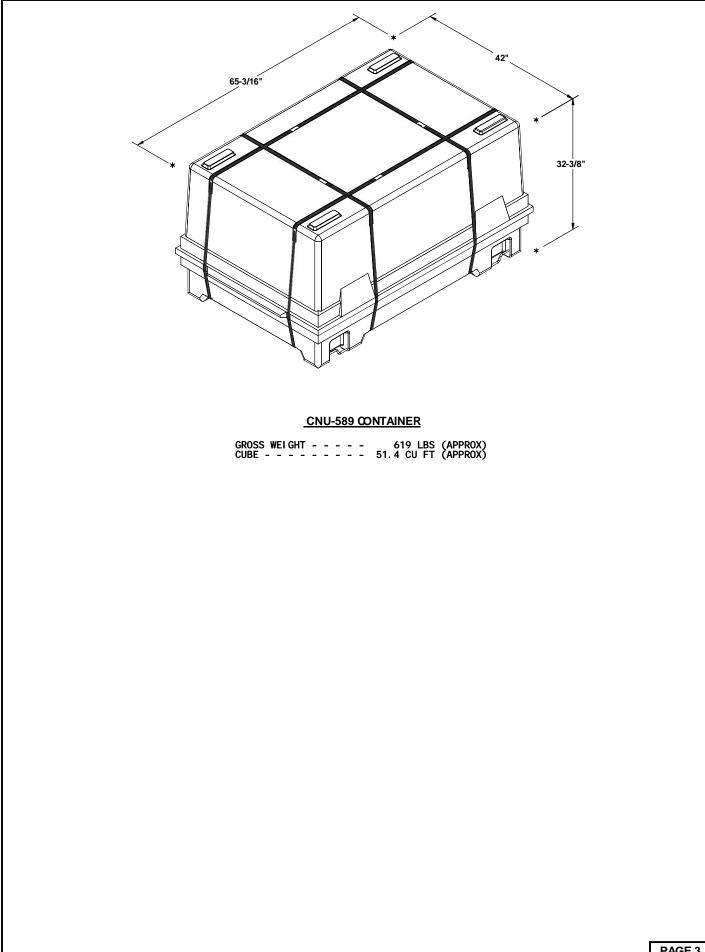
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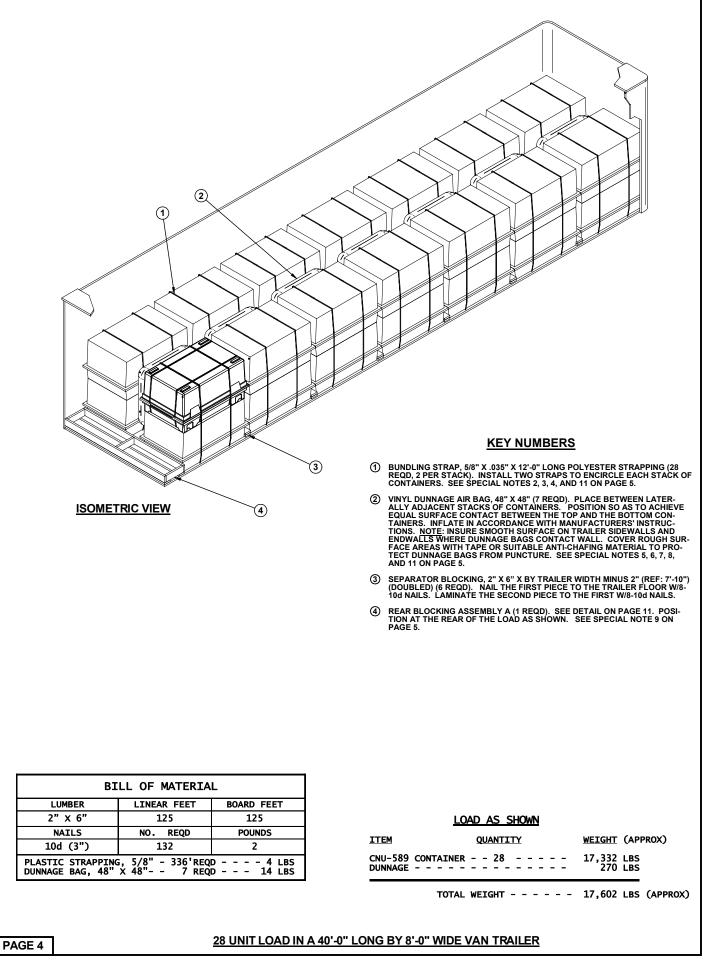
GENERAL NOTES CONTINUED

- J. DUNNAGE LUMBER SPECIFIED THROUGHOUT THIS PROCEDURAL DRAW-ING IS OF NOMINAL SIZE. FOR EXAMPLE, 1" X 4" MATERIAL IS ACTUALLY 3/4" THICK BY 3-1/2" WIDE AND 2" X 6" MATERIAL IS ACTUALLY 1-1/2" THICK BY 5-1/2" WIDE.
- K. A STAGGERED NAILING PATTERN WILL BE USED WHEREVER POSSIBLE WHEN NAILS ARE DRIVEN INTO JOINTS OF DUNNAGE ASSEMBLIES. ALSO, A STAGGERED NAILING PATTERN WILL BE USED WHEN DUNNAGE IS NAILED TO THE FLOOR OF THE TRANSPORTING VEHICLE, OR WHEN LAMI-NATING DUNNAGE. THE NAILING PATTERN WILL BE ADJUSTED AS RE-QUIRED SO THAT A NAIL DOES NOT PENETRATE INTO OR NEAR A CRACK BETWEEN FLOOR BOARDS. ADDITIONALLY, THE NAILING PATTERN FOR AN UPPER PIECE OF LAMINATED DUNNAGE WILL BE ADJUSTED AS RE-QUIRED SO THAT A NAIL FOR THAT PIECE WILL NOT BE DRIVEN THROUGH THE PIECE ONTO OR RIGHT BESIDE A NAIL IN A LOWER PIECE.
- L. PORTIONS OF THE TRAILERS, SUCH AS SIDEWALLS, ENDWALLS, AND ROOFS, HAVE NOT BEEN SHOWN IN THE LOAD VIEWS FOR CLARITY PUR-POSES.
- M. THE UNBLOCKED SPACE ACROSS THE WIDTH OF A LOAD BAY IS NOT TO EXCEED 6". EXCESSIVE SLACK CAN BE ELIMINATED FROM A LOAD BY US-ING LARGER SIZED AIRBAGS.
- N. THE SPACE AT THE REAR OF THE LOAD BETWEEN THE CONTAINERS AND THE REAR DOOR MEASURES 1-1/2" OR LESS, REAR BLOCKING IS NOT RE-QUIRED. IF THE SPACE AT THE REAR OF THE LOAD IS GREATER THAN 1-1/2" BUT LESS THAN 9", USE THE "REAR BLOCKING ASSEMBLY B" AS DE-PICTED ON PAGE 11. IF THE VOID AT THE REAR OF THE LOAD IS 9" OR GREATER, USE THE "REAR BLOCKING ASSEMBLY A" AS SHOWN ON PAGE 11. <u>NOTE</u>: REAR BLOCKING ASSEMBLIES MAY BE REPLACED WITH A NAILED HEADER AT THE REAR OF THE LOAD AS SHOWN ON PAGE 6, PRO-VIDED THE TRAILER IS CONFIGURED SUCH AS TO ALLOW NAILING IN THE AREA IN QUESTION. <u>CAUTION</u>: THE REAR HEADER METHOD IS REQUIRED WHEN LOADING VAN TRAILERS EQUIPPED WITH ROLL-UP TYPE DOORS.
- O. CONVERSION TO METRIC EQUIVALENTS: DIMENSIONS WITHIN THIS DOCU-MENT ARE EXPRESSED IN INCHES, AND WEIGHTS ARE EXPRESSED IN POUNDS. WHEN NECESSARY, THE METRIC EQUIVALENTS MAY BE COM-PUTED ON THE BASIS OF ONE INCH EQUALS 25.4MM, AND ONE POUND EQUALS 0.454 KG.

MATERIAL SPECIFICATIONS

<u>LUMBER</u> :	SEE TM 743-200-1 (DUNNAGE LUMBER) AND VOL- UNTARY PRODUCT STANDARD PS 20.
<u>NAILS</u> :	ASTM F1667; COMMON STEEL NAIL NLCMS OR NLCMMS).
STRAP, POLYESTER:	5/8" X .035" X 1,400 LB BREAKING STRENGTH, POLYCHEM CORPORATION PRODUCT CODE MPC5835.
<u>AIR BAG, VINYL,</u> <u>DUNNAGE</u> :	48" X 48", CENTERLOAD SHI PPING TECHNOLO- GIES PART NUMBER HO4848

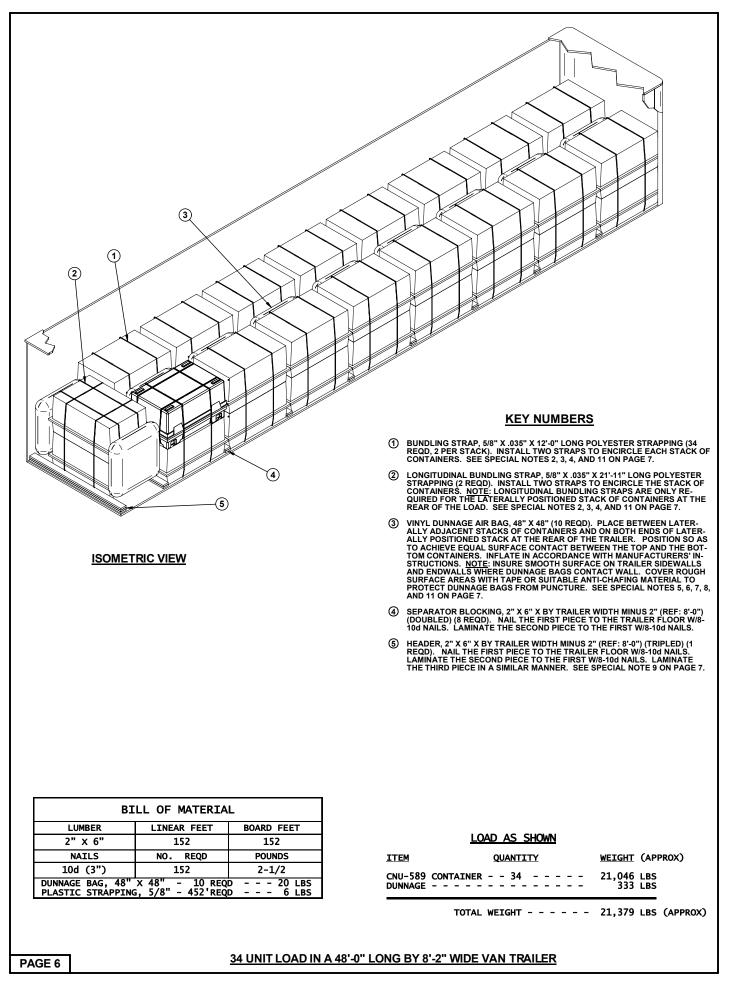




SPECIAL NOTES:

- 1. A 28 UNIT LOAD OF CNU-589 CONTAINERS IS SHOWN IN A 40'-0" LONG BY 8'-0" WIDE (INSIDE DIMENSIONS) VAN TRAILER. TRAILERS OF OTHER LENGTHS AND WIDTHS MAY BE USED.
- 2. BUNDLING STRAPS SHALL BE TENSIONED AND SECURED BY A FRICTION WELD SEAL METHOD USING POLYCHEM CORPORATION, BET-700 TOOLING OR EQUIVALENT.
- STEEL STRAPPING AND SEALS MAY BE SUBSTITUTED FOR THE POLYES-TER STRAPPING. STEEL STRAPPING SHALL BE IN ACCORDANCE WITH NAVSEA DRAWING 6214068.
- 4. CNU-589 CONTAINERS THAT ARE BUNDLED WITH STEEL STRAPPING AND SEALS MUST HAVE ALL THE SEALS POSITIONED ON THE SAME SIDE OF THE STACK. THE STACK SHALL BE PLACED IN THE TRAILER WITH THE STRAP SEALS POSITIONED AGAINST THE TRAILER SIDE WALLS.
- 5. THE VINYL DUNNAGE AIR BAGS MAY BE SECURED TO THE TOP CNU-589 CONTAINER WITH THE ADHESIVE PATCH ON THE BAGS. THE BAGS WILL BE CENTERED LONGITUDINALLY BETWEEN STACKS OF CNU-589 CON-TAINERS SO THAT THE BAG WILL CONTACT THE TOP AND BOTTOM CON-TAINERS OF BOTH STACKS. USE OF THE ADHESIVE PATCH IS NOT MAN-DATORY AS A TENSION FIT WILL HOLD THE BAG IN PLACE ONCE IT IS IN-FLATED.
- 6. INFLATE BAGS WITH THE CENTERLOAD SHIPPING TECHNOLOGIES TURBO FILL INFLATION SYSTEM IN ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS.
- 7. DUNNAGE BAGS ARE 48" X 48", CENTERLOAD SHIPPING TECHNOLOGIES PART NUMBER HO4848. OTHER SIZED BAGS MAY BE USED AS LONG AS THE OTHER BAG PROVIDES EQUAL OR GREATER SURFACE CONTACT WITH THE CNU-589 CONTAINERS AS THE 48" X 48" BAG PROVIDES.
- 8. EACH GROUP OF LATERALLY ADJACENT STACKS OF CNU-589 CONTAIN-ERS SHALL HAVE ONE BAG POSITIONED BETWEEN THE STACKS.
- 9. IF THE SPACE AT THE REAR OF THE LOAD BETWEEN THE CONTAINERS AND THE REAR DOOR IS 9" OR GREATER, USE THE REAR BLOCKING AS-SEMBLY "A" AS SHOWN. IF THE SPACE AT THE REAR OF THE LOAD IS GREATER THAN 1-1/2" BUT LESS THAN 9" USE THE REAR BLOCKING AS-SEMBLY "B" AS DETAILED ON PAGE 11. IF THE SPACE AT THE REAR OF THE LOAD IS 1-1/2" OR LESS, REAR BLOCKING IS NOT REQUIRED. <u>NOTE</u>: REAR BLOCKING ASSEMBLIES MAY BE REPLACED WITH A NAILED HEAD-ER AT THE REAR OF THE LOAD, PROVIDED THE TRAILER IS CONFIGURED SUCH AS TO ALLOW NAILING IN THE AREA IN QUESTION. INSTALL NAILED HEADER AS DETAILED ON PAGE 6.
- 10. HANDLING FROM ENDS OF 3-HIGH STACK OF CONTAINERS REQUIRES THE USE OF FORKLIFT EQUIPPED WITH 60" MINIMUM TINE LENGTH OR FORK-LIFT EXTENSIONS.
- 11.SOURCE OF SUPPLY: THE CENTERLOAD SHIPPING TECHNOLOGIES VINYL DUNNAGE AIR BAGS, PART NUMBER H04048, AND THE APPLICABLE IN-FLATOR TOOL CONTACT <u>HTTP://WWW.CENTERLOAD.COM/INDEX.HTML</u> AND THE POLYCHEM CORPORATION POLYESTER STRAPPING, PRODUCT CODE MPC5835 AND THE POWER SEALESS WELDING TOOL, CONTACT <u>HTTP://WWW.POLYCHEM.COM/</u>.

28 UNIT LOAD IN A 40'-0" LONG BY 8'-0" WIDE VAN TRAILER

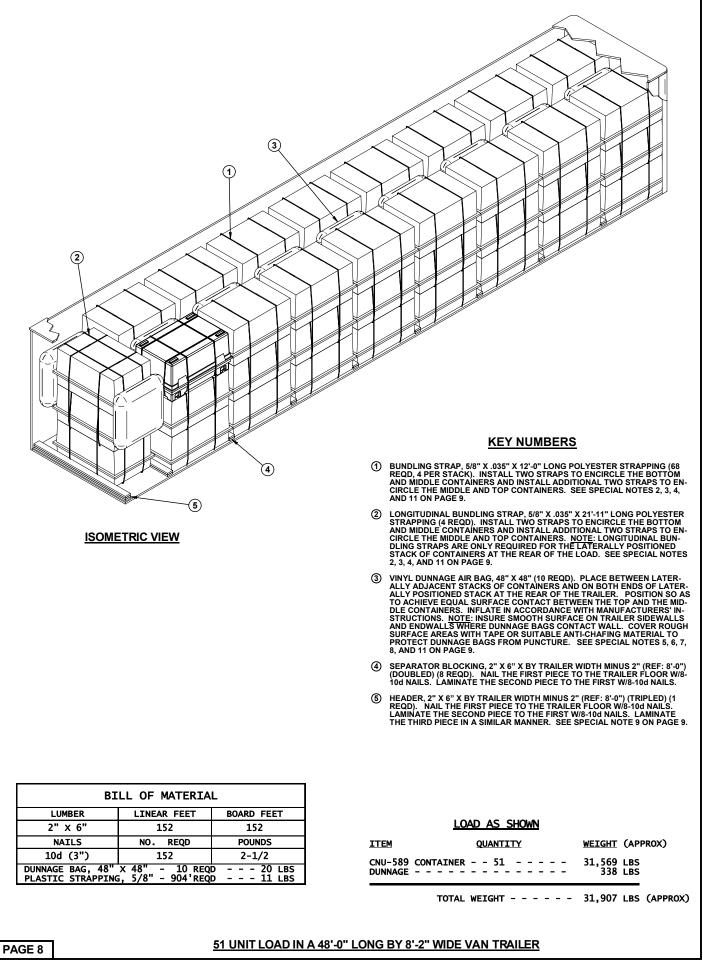


PROJECT SP 486-03

SPECIAL NOTES:

- 1. A 34 UNIT LOAD OF CNU-589 CONTAINERS IS SHOWN IN A 48'-0" LONG BY 8'-2" WIDE (INSIDE DIMENSIONS) VAN TRAILER. TRAILERS OF OTHER LENGTHS AND WIDTHS MAY BE USED.
- 2. BUNDLING STRAPS SHALL BE TENSIONED AND SECURED BY A FRICTION WELD SEAL METHOD USING POLYCHEM CORPORATION, BET-700 TOOLING OR EQUIVALENT.
- 3. STEEL STRAPPING AND SEALS MAY BE SUBSTITUTED FOR THE POLYES-TER STRAPPING. STEEL STRAPPING SHALL BE IN ACCORDANCE WITH NAVSEA DRAWING 6214068.
- 4. CNU-589 CONTAINERS THAT ARE BUNDLED WITH STEEL STRAPPING AND SEALS MUST HAVE ALL THE SEALS POSITIONED ON THE SAME SIDE OF THE STACK. THE STACK SHALL BE PLACED IN THE TRAILER WITH THE STRAP SEALS POSITIONED AGAINST THE TRAILER SIDE WALLS.
- 5. THE VINYL DUNNAGE AIR BAGS MAY BE SECURED TO THE TOP CNU-589 CONTAINER WITH THE ADHESIVE PATCH ON THE BAGS. THE BAGS WILL BE CENTERED LONGITUDINALLY BETWEEN STACKS OF CNU-589 CON-TAINERS SO THAT THE BAG WILL CONTACT THE TOP AND BOTTOM CON-TAINERS OF BOTH STACKS. USE OF THE ADHESIVE PATCH IS NOT MAN-DATORY AS A TENSION FIT WILL HOLD THE BAG IN PLACE ONCE IT IS IN-FLATED.
- INFLATE BAGS WITH THE CENTERLOAD SHIPPING TECHNOLOGIES TURBO FILL INFLATION SYSTEM IN ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS.
- 7. DUNNAGE BAGS ARE 48" X 48", CENTERLOAD SHIPPING TECHNOLOGIES PART NUMBER HO4848. LARGER SIZED BAGS MAY BE USED AS LONG AS THE LARGER BAG PROVIDES EQUAL OR GREATER SURFACE CONTACT WITH THE CNU-589 CONTAINERS AS THE 48" X 48" BAG PROVIDES.
- 8. EACH GROUP OF LATERALLY ADJACENT STACKS OF CNU-589 CONTAIN-ERS SHALL HAVE ONE BAG POSITIONED BETWEEN THE STACKS.
- 9. IF THE SPACE AT THE REAR OF THE LOAD IS 1-1/2" OR LESS, REAR BLOCK-ING IS NOT REQUIRED. IF THE SPACE AT THE REAR OF THE LOAD IS GREATER THAN 1-1/2" BUT LESS THAN 3" USE THE REAR BLOCKING AS-SEMBLY "B" AS DETAILED ON PAGE 11. IF THE SPACE AT THE REAR OF THE LOAD BETWEEN THE CONTAINERS AND THE REAR DOORS IS 9" OR GREATER, USE THE REAR BLOCKING ASSEMBLY "A" AS DETAILED ON PAGE 11 OR THE NAILED HEADER AS SHOWN. IF THE TRAILER IS EQUIPPED WITH A METAL THRESHOLD PLATE AND IT INTERFERES WITH THE NAILING OF THE HEADER AS SHOWN ON PAGE 6, ONE OF THE REAR BLOCKING ASSEMBLIES SHOWN ON PAGE 11 MUST BE INSTALLED.
- 10. HANDLING FROM ENDS OF 3-HIGH STACK OF CONTAINERS REQUIRES THE USE OF FORKLIFT EQUIPPED WITH 60" MINIMUM TINE LENGTH OR FORK-LIFT EXTENSIONS.
- 11.SOURCE OF SUPPLY: THE CENTERLOAD SHIPPING TECHNOLOGIES VINYL DUNNAGE AIR BAGS, PART NUMBER HO4048, AND THE APPLICABLE IN-FLATOR TOOL CONTACT <u>HTTP://WWW.CENTERLOAD.COM/INDEX.HTML</u> AND THE POLYCHEM CORPORATION POLYESTER STRAPPING, PRODUCT CODE MPC5835 AND THE POWER SEALESS WELDING TOOL, CONTACT <u>HTTP://WWW.POLYCHEM.COM/</u>.

34 UNIT LOAD IN A 48'-0" LONG BY 8'-2" WIDE VAN TRAILER



SPECIAL NOTES:

- 1. A 51 UNIT LOAD OF CNU-589 CONTAINERS IS SHOWN IN A 48'-0" LONG BY 8'-2" WIDE (INSIDE DIMENSIONS) VAN TRAILER. TRAILERS OF OTHER LENGTHS AND WIDTHS MAY BE USED. A 57 UNIT LOAD OF CNU-589 CON-TAINERS MAY BE LOADED IN A 53'-0" LONG BY 8'-2" WIDE (INSIDE DIMEN-SIONS) CONVENTIONAL VAN TRAILER.
- 2. BUNDLING STRAPS SHALL BE TENSIONED AND SECURED BY A FRICTION WELD SEAL METHOD USING POLYCHEM CORPORATION, BET-700 TOOLING OR EQUIVALENT.
- 3. STEEL STRAPPING AND SEALS MAY BE SUBSTITUTED FOR THE POLYES-TER STRAPPING. STEEL STRAPPING SHALL BE IN ACCORDANCE WITH NAVSEA DRAWING 6214068.
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- 6. INFLATE BAGS WITH THE CENTERLOAD SHIPPING TECHNOLOGIES TURBO FILL INFLATION SYSTEM IN ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS.
- 7. DUNNAGE BAGS ARE 48" X 48", CENTERLOAD SHIPPING TECHNOLOGIES PART NUMBER H04848. LARGER SIZED BAGS MAY BE USED AS LONG AS THE LARGER BAG PROVIDES EQUAL OR GREATER SURFACE CONTACT WITH THE CNU-589 CONTAINERS AS THE 48" X 48" BAG PROVIDES.
- 8. EACH GROUP OF LATERALLY ADJACENT STACKS OF CNU-589 CONTAIN-ERS SHALL HAVE ONE BAG POSITIONED BETWEEN THE STACKS.
- 9. IF THE SPACE AT THE REAR OF THE LOAD IS 1-1/2" OR LESS, REAR BLOCK-ING IS NOT REQUIRED. IF THE SPACE AT THE REAR OF THE LOAD IS GREATER THAN 1-1/2" BUT LESS THAN 9" USE THE REAR BLOCKING AS-SEMBLY "B" AS DETAILED ON PAGE 11. IF THE SPACE AT THE REAR OF THE LOAD IS BETWEEN THE CONTAINERS AND THE REAR DOORS IS 9" OR GREATER, USE THE REAR BLOCKING ASSEMBLY "A" AS DETAILED ON PAGE 11 OR THE NAILED HEADER AS SHOWN. IF THE TRAILER IS EQUIPPED WITH A METAL THRESHOLD PLATE AND IT INTERFERES WITH THE NAILING OF THE HEADER AS SHOWN ON PAGE 6, ONE OF THE REAR BLOCKING ASSEMBLIES SHOWN ON PAGE 11 MUST BE INSTALLED.
- 10. HANDLING FROM ENDS OF 3-HIGH STACK OF CONTAINERS REQUIRES THE USE OF FORKLIFT EQUIPPED WITH 60" MINIMUM TINE LENGTH OR FORK-LIFT EXTENSIONS.
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51 UNIT LOAD IN A 48'-0" LONG BY 8'-2" WIDE VAN TRAILER

