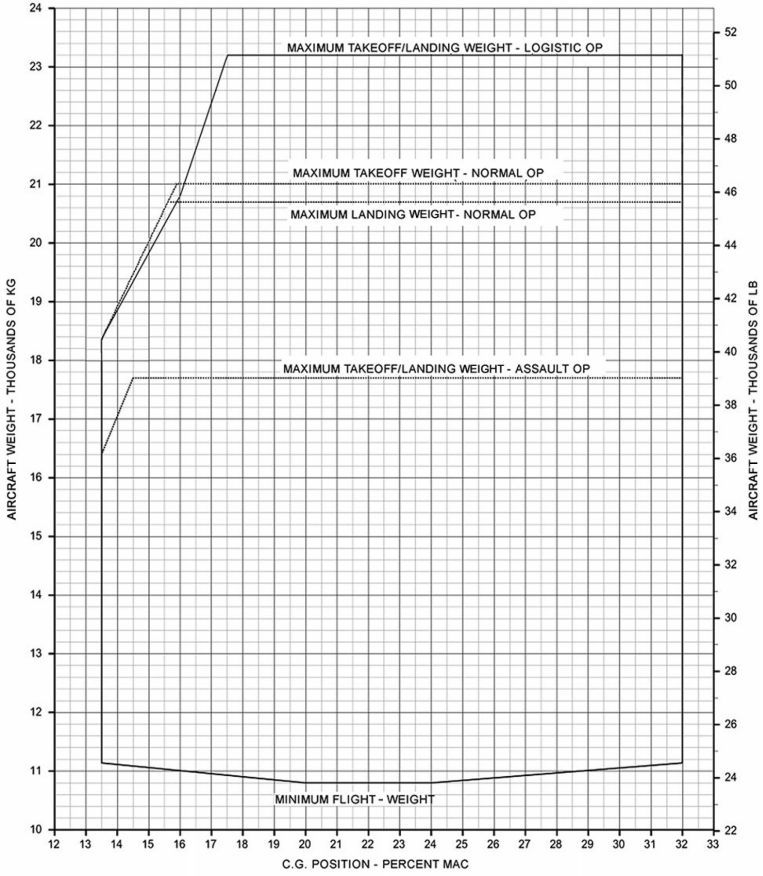
REFERENCE DATA

LIMITATIONS

CG DIAGRAM

LONGITUDINAL DISPLACEMENT LIMITS



WEIGHT

	LOGISTIC ROLE	NORMAL ROLE	ASSAULT ROLE
MTW (Kg)	23 250	21 050	- - -
MTOW (Kg)	23 200	21 000	17 700
MZFW (Kg)	20 700	18 500	16 500
MLW (Kg) (Max Sink Rate)	23 200 (540 fpm)	20 700 (600 fpm)	- - -

MAX. LOAD FACTOR	-0.85 g up to 2.25 g	-1.0 g up to 2.50 g	-1.0 g up to 3.0 g

ELECTRICAL

Maximum permissible continuous load on each generator is 400 Amps.

Generators may not be operated with loads greater than 400 Amps for periods longer than 5 minutes.

GPU Voltage Limits (AC)	MIN ➢	110 V
	MAX ➢	118 V
Minimum power of the GPU: 10 KVA.		

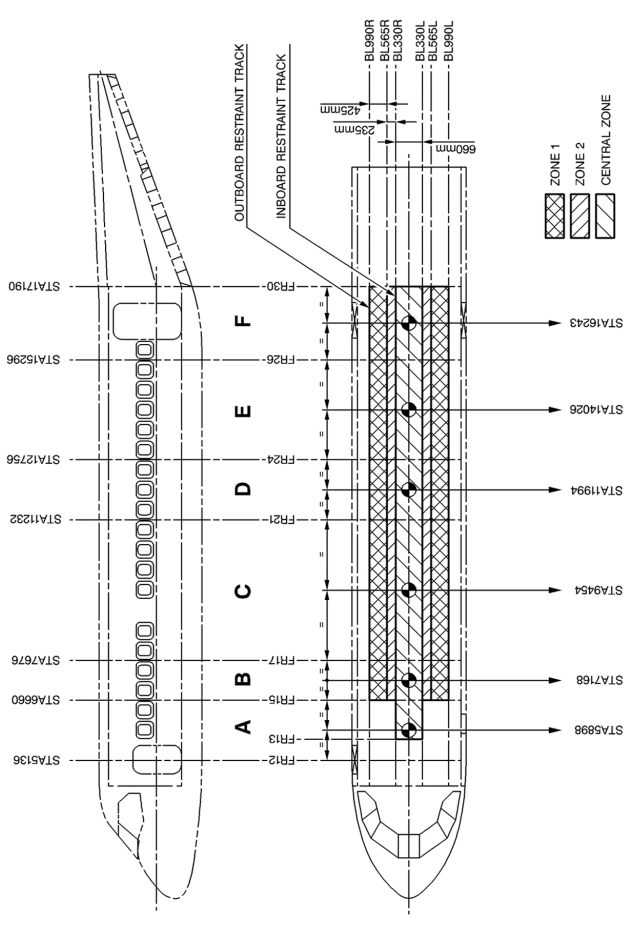
HYDRAULIC

When approved hydraulic fluid MIL-H-83282 (red) is used, whether it is mixed or not, lowest ambient temperature allowed is -40 ºC.

DOORS

Refer to C/M-1 and /or C/M-2 for permission before opening any door.

CARGO CABIN ZONES

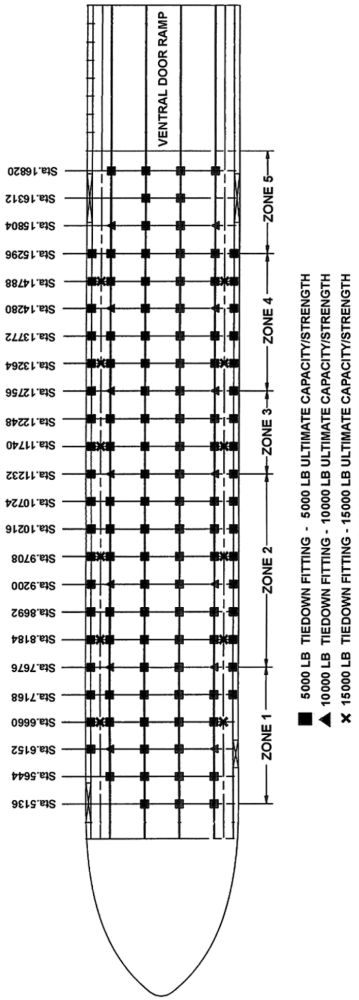


CARGO CABIN ZONES (cont.)

ZONE	ZONE LIMITS Fus.Sta. to Fus.Sta.	Max. Linear Load		Max. Permissible Load	
		kg / m	lb / in	kg	lb
I	5.136 to 7.676 m (202.20 to 302.20 in.)	1000	56.00	2540	5600
II	7.676 to 11.232 m (302.20 to 442.20 in.)	1100	61.60	3912	8630
III	11.232 to 12.756 m (442.20 to 502.20 in.)	1300	72.80	1981	4370
IV	12.756 to 15.296 m (502.20 to 602.20 in.)	1100	61.60	2794	6160
V	15.296 to 17.190 m (602.20 to 676.77 in.)	1000	56.00	1894	4180
Ramp	17.190 to 20.232 m (676.77 to 796.53 in.)	-	-	1000	2210

NOTE: Lb–values above are rounded off to the nearest 10 lb.

TIE DOWN POINTS



WINCH

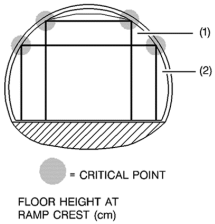
LOADING CAPABILITIES DEPENDING ON RAMP SLOPE

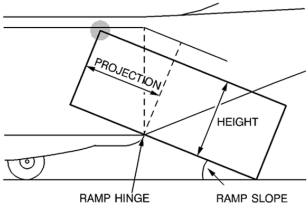
RAMP CREST HEIGHT (cm)	115	120	125	130	136	140
RAMP SLOPE (DEGREES)	15º	16º	17º	18º	19º	20º
NOTE: Ramp slope values are round-off to the nearest value in degrees.						

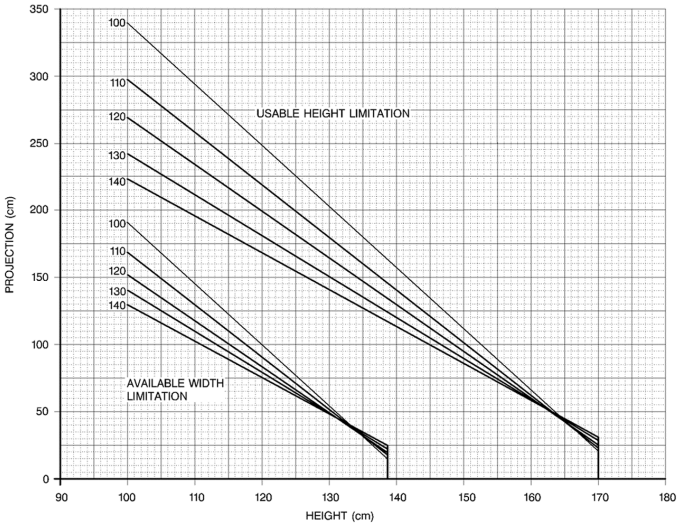
ROLLING SUPPORT	FRICTION COEFFICIENT (FOR RAMP IN HORIZONTAL POSITION)	MAXIMUM WINCH CAPACITY (kg) IAW RAMP SLOPE					
		15º	16º	17º	18º	19º	20º
SOLID TIRES (HARD RUBBER OR METALLIC)	0.018	3620	3414	3230	3066	2919	2786
ROLLER CONVEYORS	0.020	3595	3391	3210	3048	2903	2772
PNEUMATIC TIRES	0.030	3475	3284	3115	2963	2825	2701

LOADS

OVERHEAD CRATED CARGO PROJECTION

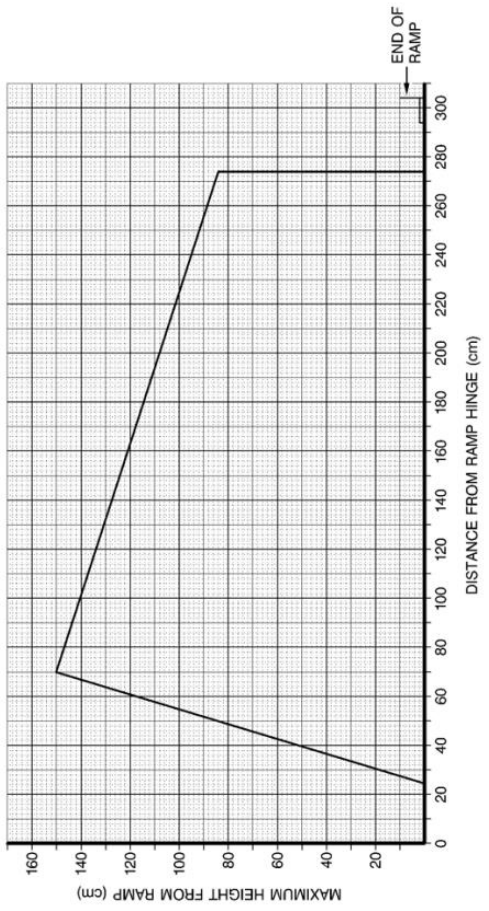






NOTE: LIMITATIONS OVER CABIN FLOOR
(1) USABLE HEIGHT LIMITATION
(2) AVAILABLE WIDTH LIMITATION

HEIGHT LIMITATION FOR LOADS ON THE RAMP

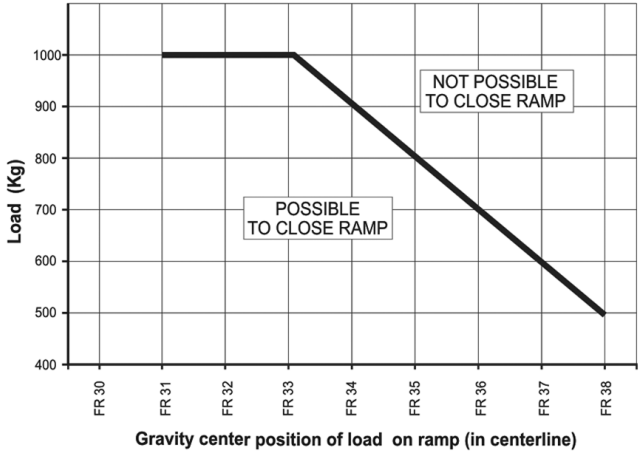


NOTE: DISTANCE FROM RAMP HINGE WITH THE RAMP OPENED, AND MEASURED FROM THE APP END OF THE CARGO CABIN FLOOR, SO LOAD DOES NOT PROTRUDE INTO THE CARGO HOLD WHEN CLOSING THE RAMP.

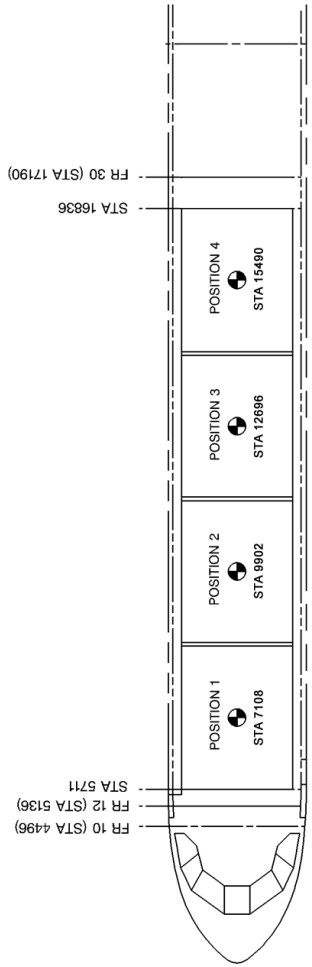
NOTE: FOR LOADS ON HCU-6/E PALLETS, SUBTRACT 11 CM FROM HEIGHT READING ON GRAPHIC.

NOTE: FOR LOADS ON THE INTERMEDIATE CONVEYOR TRAYS, SUBTRACT 5 CM FROM HEIGHT READING ON GRAPHIC.

LOAD CAPACITY ON RAMP



PALLET POSITIONS



CENTROIDS NOTED WITH PALLETS IN CENTER POSITION

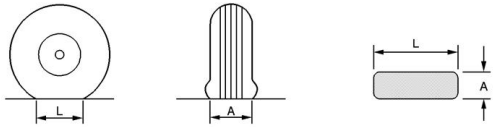
GAP BETWEEN PALLETS IN CONSECUTIVE POSITIONS 5cm (2 inches)

WITH A COMPLETE LOAD, PALLETS MAY BE LOCKED IN CENTROIDS SHOWN ± 25.4 (10 inches)

WITH A LOAD OF LESS THAN 4 PALLETS ON THE CARGO CABIN, PALLETS MAY BE LOCKED EVERY 25.4 cm (10 inches)

CALCULATING CONTACT PRESSURE AND SHORING EFFECT ON PNEUMATIC TIRES

CONTACT SURFACE AND WEIGHT PER WHEEL



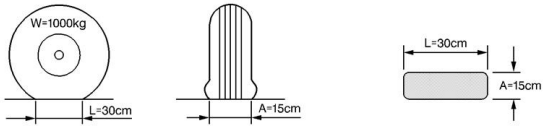
STEP 1: PLACE THE VEHICLE ON A FLAT SURFACE AND MARK WHEEL BORDER, AS SHOWN. MOVE THE VEHICLE.

STEP 2: CONTACT SURFACE WILL HAVE AN ELLIPTICAL SHAPE; MEASURE DIMENSIONS "L" AND "A".

STEP 3: COMPUTE CONTACT SURFACE BY MEANS OF THE FORMULA: S=LxAx0.785.

STEP 4: COMPUTE WEIGHT PER WHEEL: WEIGHT PER WHEEL= $\frac{\text{WEIGHT ON AXLE}}{\text{NUMBER OF WHEELS}}$

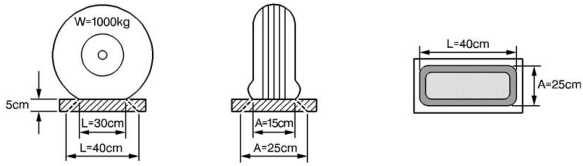
CONTACT PRESSURE WITHOUT SHORING



S= LxAx0.785; S= 30x15x0.785= 353.25 ROUND OFF= 353cm^2

PRESSURE= $\frac{W}{S}$; P= $\frac{1000}{353}$ = 2.83 ROUND OFF= 2.9 Kg/cm^2

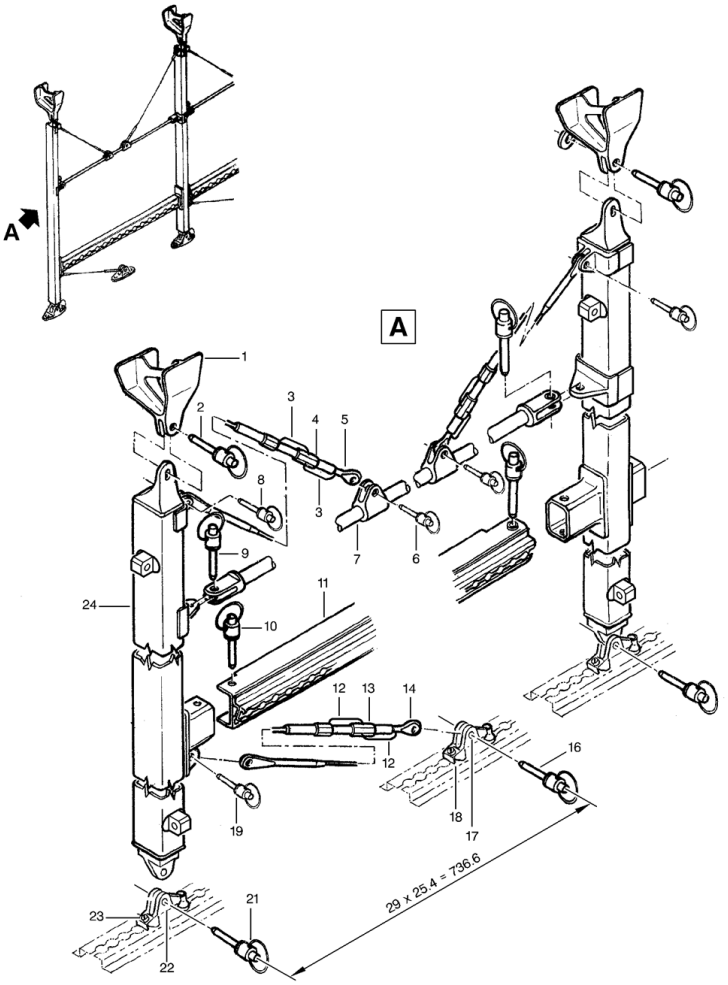
CONTACT PRESSURE WITH SHORING



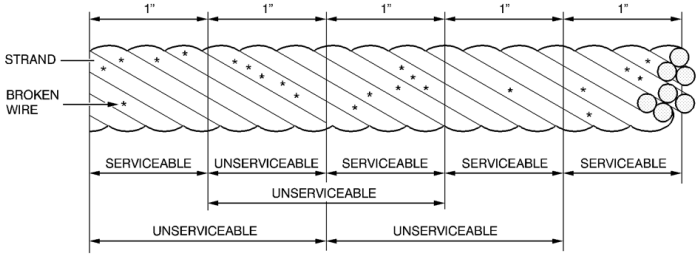
S= LxAx0.785; S= 40x25x0.785= 785cm^2

PRESSURE= $\frac{W}{S}$; P= $\frac{1000}{785}$ = 1.27 ROUND OFF= 1.3 Kg/cm^2

INSTALLATION/REMOVAL OF CENTER SEAT SUPPORT FRAME



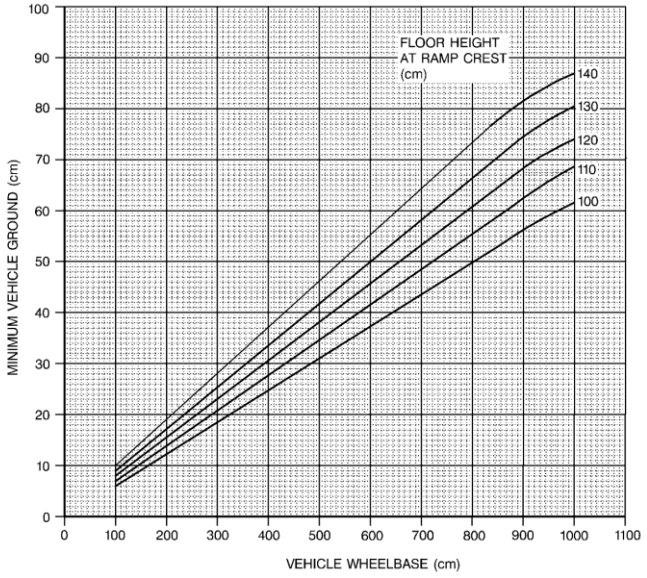
CABLE DAMAGE TOLERANCE

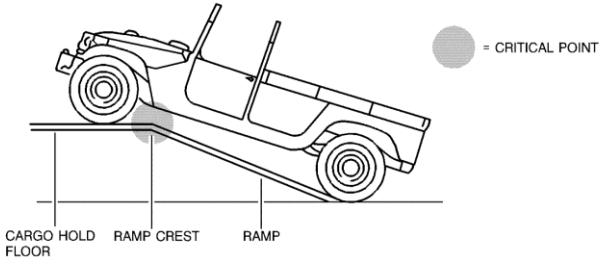


AIRDROP ANCHOR CABLES MUST NOT HAVE KINKS, NOR MORE THAN SIX BROKEN WIRES PER INCH, NEVER IN TWO CONSECUTIVE INCHES, NOR MORE THAN THREE BROKEN WIRES IN THE SAME STRAND

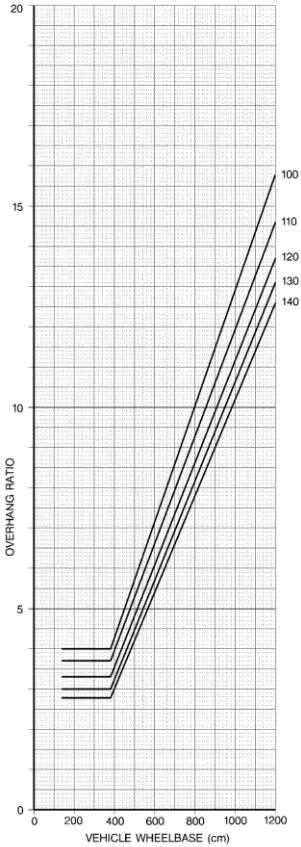
VEHICLES

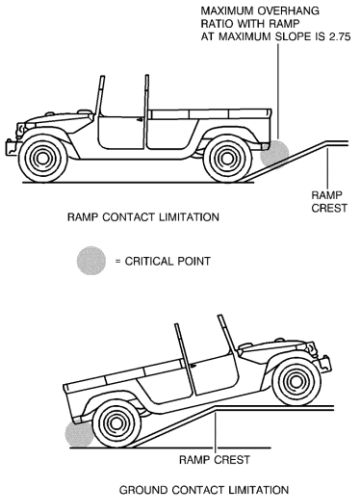
RAMP CREST CONTACT



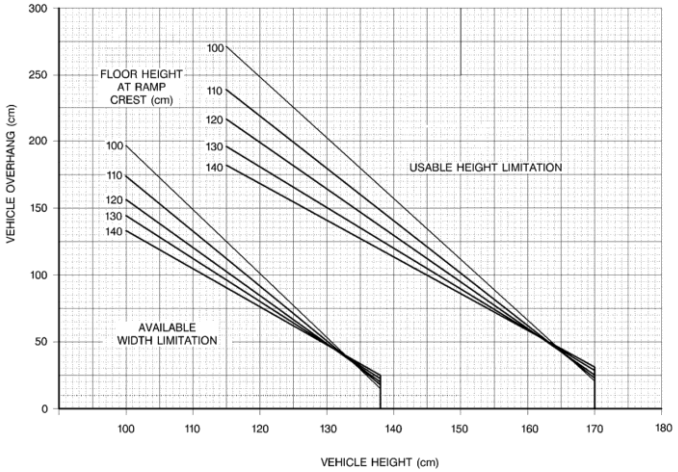


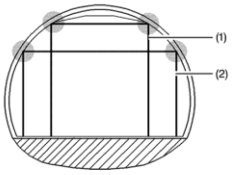
OVERHANG RAMP AND GROUND CONTACT LIMITATION



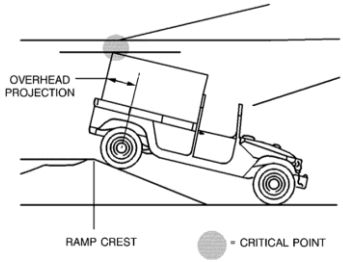


VEHICLE OVERHEAD PROJECTION





(1) USABLE HEIGHT LIMITATION
(2) USABLE WIDTH LIMITATION



CARGO FLOOR – ON GROUND CAPACITIES

		CARGO CABIN								RAMP	
FRAME	12	15	17	21	24	26	30	34	38.5		
STA	5136	6680	7676	11232	12756	15296	17190	18542	19894		
COMPARTMENT	A	B	C	D	E	F	R1	R2			
LENGTH (mm)	1524	1016	3556	1524	2540	1894	1352	1352			
WIDTH (mm)	2366	2366	2366	2366	2366	2366	2366	2366			
AREA (cm^2)	36057	24038	84134	36057	60096	44812	31988	31988			
MAXIMUM INDIVIDUAL CAPACITY (kg)	6096	4064	15644	7924	11176	7576	4000				
MAXIMUM LINEAR CAPACITY (kg/linear meter)	4000	4000	4400	5200	4400	4000	-----				

			UNITS	COMPARTMENT								
				A	B	C	D	E	F	R1	R2	
CONCENTRATED LOADS	LATERAL STRIPS	AREA MORE THAN 80 CM^2	Kg/cm^2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.7	
		AREA LESS THAN 80 CM^2		7.7	7.7	7.7	7.7	7.7	7.7	7.7	5.7	
	CENTRAL STRIP	AREA MORE THAN 80 CM^2		1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
		AREA LESS THAN 80 CM^2		5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	
BULK LOADS	RUNNING LOAD PER PANEL	LATERAL STRIPS	Kg/linear meter	4800	7200	7200	7200	7200	4800	-----	-----	
		CENTRAL STRIP		2700	2700	3000	3000	3000	2700	-----	-----	
		LATERAL AND CENTRAL STRIPS		5400	6600	6600	6600	6600	5400	-----	-----	
PNEUMATIC TIRES: MAXIMUM INTERNAL PRESSURE 7.03 kg/cm^2 (100 PSI, 6.89 BAR), MINUMUM DISTANCE BETWEEN AXLES 90 cm												
WHEELED LOADS	WEIGHT PER AXLE ON LATERAL STRIPS	ZONE 1	Kg	1900	5200	5200	5200	5200	3800	3200	3200	
		ZONE 2	Kg	1900	2600	2600	2600	2600	2600	3200	3200	
	TONGUE LOAD ON CENTRAL STRIP		Kg	500	500	500	500	500	500	-----	-----	
PALLETIZED LOADS AM109 CHADS				SEE IN-FLIGHT CAPACITIES								

LOADING/OFFLOADING CAPACITIES (ON THE GROUND)

WARNING: FIGURES SHOWN INDICATES FLOOR LOADING CAPACITIES ONLY. AIRCRAFT WEIGHT AND BALANCE MUST BE COMPUTED IN ALL CASES, AND CG LIMITS MUST BE OBSERVED.

NOTE: Cargo floor between FR10 (STA 4496) and FR12 (STA 5136) is not usable for loading purposes.

CARGO FLOOR – IN FLIGHT CAPACITIES

	FRAME	CARGO CABIN								RAMP	
		12	15	17	21	24	26	30	34	38.5	
	STA	5136	6660	7676	11232	12756	15296	17100	18542	19894	
COMPARTMENT		A	B	C	D	E	F	R1	R2		
LENGTH (mm)		1524	1016	3556	1524	2540	1894	1352	1352		
WIDTH (mm)		2368	2366	2366	2368	2368	2365	2366	2368		
AREA (cm^2)		38057	24038	84134	38057	60096	44812	31988	31988		
MAXIMUM INDIVIDUAL CAPACITY (kg)		1524	1016	3911	1981	2794	1894	1000			
MAXIMUM LINEAR CAPACITY (kg/linear meter)		1000	1000	1100	1300	1100	1000	-----			

			UNITS	COMPARTMENT									
				A	B	C	D	E	F	R1	R2		
CONCENTRATED LOADS	LATERAL STRIPS	AREA MORE THAN 80 CM^2	Kg/cm^2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.0		
		AREA LESS THAN 80 CM^2		4.4	4.4	4.4	4.4	4.4	4.4	4.4	3.3		
	CENTRAL STRIP	AREA MORE THAN 80 CM^2		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
		AREA LESS THAN 80 CM^2		3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		
BULK LOADS	RUNNING LOAD PER PANEL	LATERAL STRIPS	Kg/linear meter	1600	2400	2400	2400	2400	1600	1000 kg total capacity			
		CENTRAL STRIP		900	900	1000	1000	1000	900				
		LATERAL AND CENTRAL STRIPS		1800	2200	2200	2200	2200	1800				
WHEELED LOADS	PNEUMATIC TIRES: MAXIMUM INTERNAL PRESSURE 7.03 kg/cm^2 (100 PSI, 6.89 BAR), MINIMUM DISTANCE BETWEEN AXLES 90 cm												
	WEIGHT PER AXLE ON LATERAL STRIPS	ZONE 1	Kg	800	2275	2275	2275	2275	1600	500	500		
		ZONE 2	Kg	800	1000	1000	1000	1000	1000	500	500		
	TONGUE LOAD ON CENTRAL STRIP		Kg	200	200	200	200	200	200	200	----		
PALLETIZED LOADS AM109 CHADS (4 ROWS OF ROLLERS)	RUNNING LOADS		Kg/linear meter	1000	1000	1000	1000	1000	1000	-----	-----		
	ROLLER STATION		Kg/station	300	300	300	300	300	300	300	300		
	WEIGHT PER HCU-6/E PALLET		Kg	2640	2640		2640		2640	1000			

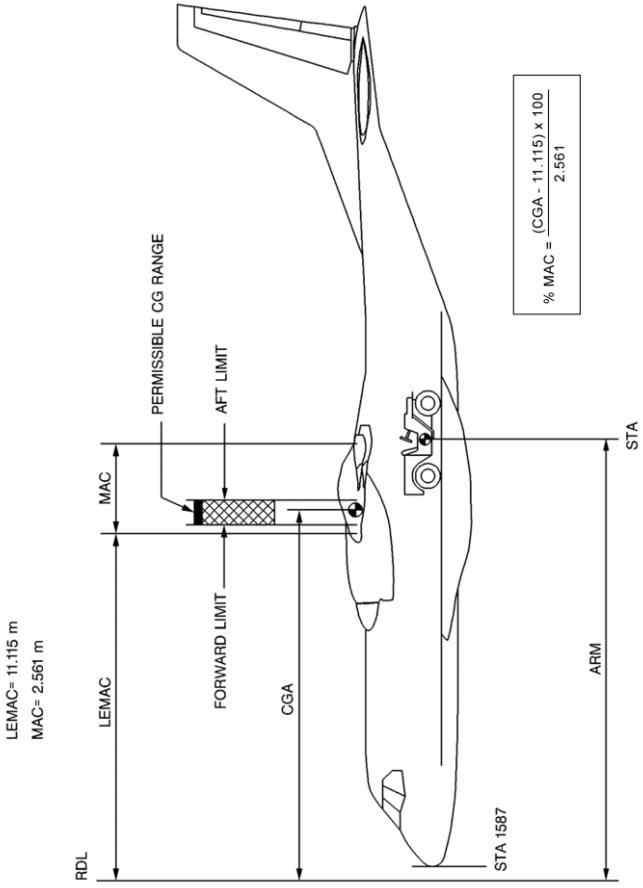
IN-FLIGHT CAPACITIES

WARNING: FIGURES SHOWN INDICATES FLOOR LOADING CAPACITIES ONLY. AIRCRAFT WEIGHT AND BALANCE MUST BE COMPUTED IN ALL CASES, AND CG LIMITS MUST BE OBSERVED.

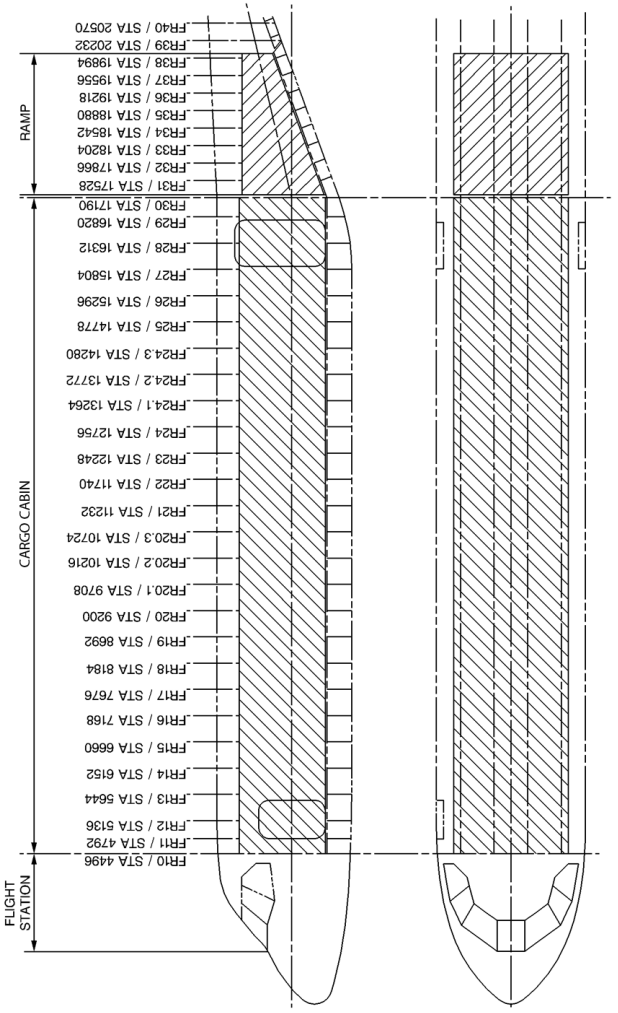
NOTE: Cargo floor between FR10 (STA 4496) and FR12 (STA 5136) is not usable for loading purposes.

CARGO CABIN DATA

MAC / LEMAC

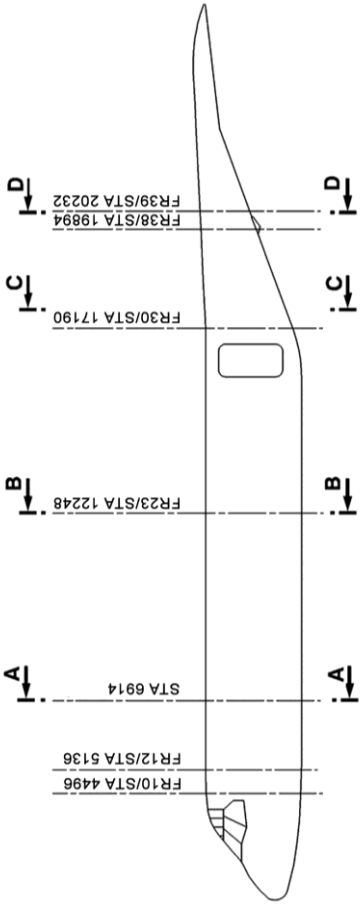


CARGO CABIN STATIONS

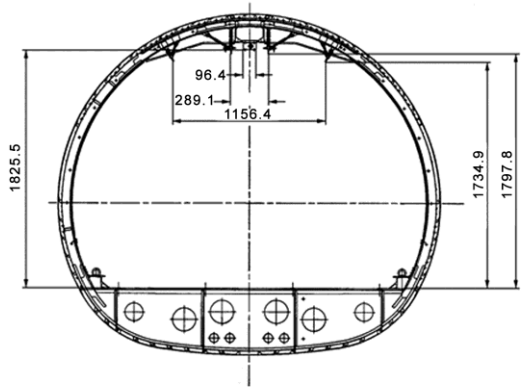


CARGO CABIN DIMENSIONS

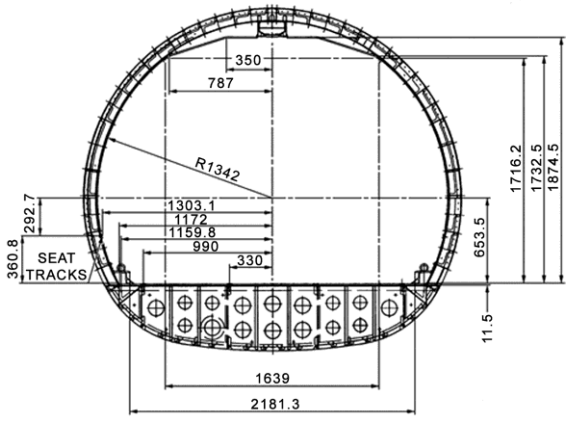
SECTIONS



SECTIONS (cont.)

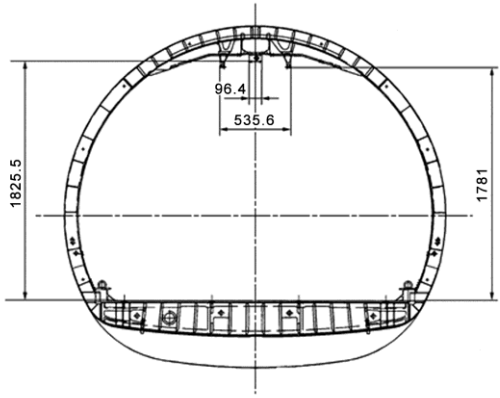


SECTION A-A

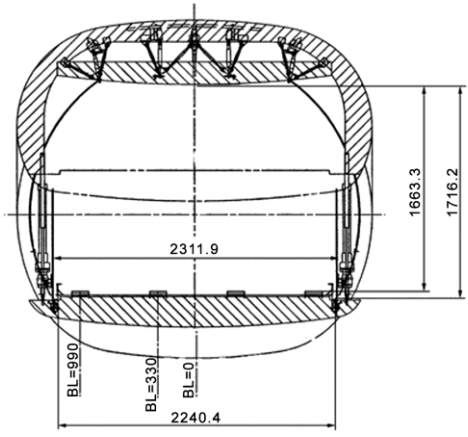


SECTION B-B

SECTIONS (cont.)

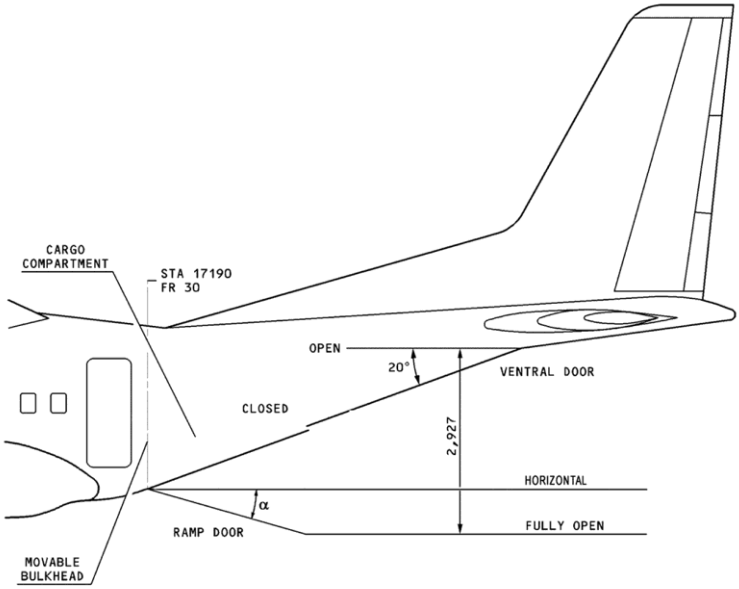


SECTION C-C



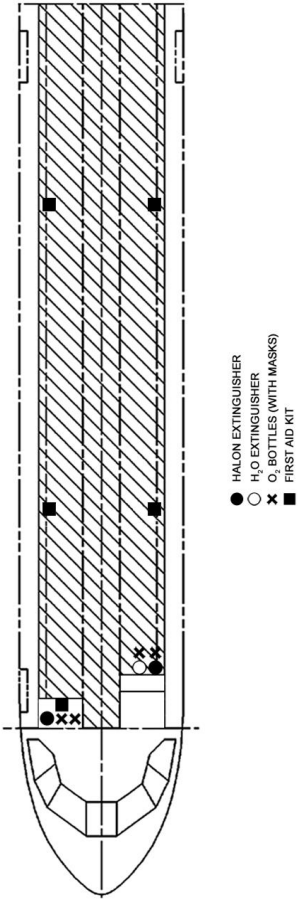
SECTION D-D

RAMP



α (º)	Weight (kg)	CG (MAC)
15.1	23200	32%
15.8	23200	17.6%
18.9	11140	32%
19.8	11140	13.5%

EMERGENCY EQUIPMENT



OXYGEN

When flying above FL250 each crew-member oxygen mask must be connected to its oxygen socket, and masks must be immediately available.

OXYGEN DURATION (MANHOURS) – FIXED GASEOUS OXYGEN INSTALLATION

↓ CABIN ALTITUDE	COCKPIT MANOMETER READING (PSI) ↓				
	1850	**1500**	**1200**	**1000**	**800**
Fixed installation supplying diluted oxygen (NOR air/oxygen mixture).					
5000	5.69	3.96	2.47	1.48	0.49
10000	4.52	3.14	1.96	1.18	0.39
15000	4.03	2.80	1.75	1.05	0.35
20000	3.73	2.59	1.62	0.97	0.32
25000	3.11	2.16	1.35	0.81	0.27
Fixed installation supplying pure oxygen (100%).					
5000	1.02	0.71	0.44	0.27	0.09
10000	1.25	0.87	0.54	0.33	0.11
15000	1.57	1.09	0.68	0.41	0.14
20000	1.96	1.37	0.85	0.51	0.17
25000	2.54	1.76	1.10	0.66	0.22

NOTES:
- Duration in hours, to be divided by the number of users.
- Oxygen pressure reading taken at 15ºC (59ºF) oxygen temperature.
- Average breathing rate: 20 litres/minute BTPS.
- Portable oxygen installation not taken into account.
- 390 litres NTPD taken as reserve for fire fighting at 10000 ft.
- Minimum bottle pressure at 200 psi.

OPERATIONAL ITEMS WEIGHT & MOMENT

CREW WEIGHT & MOMENT DATA

Crew	Weight (kg)	Weight (lb)	Arm - H (m)	Moment (kg x m)
Pilot	70	154	3.549	248
	75	165	3.549	266
	80	176	3.549	284
	85	187	3.549	302
	90	198	3.549	319
Copilot	70	154	3.549	248
	75	165	3.549	266
	80	176	3.549	284
	85	187	3.549	302
	90	198	3.549	319
Fwd. Observer	70	154	4.336	304
	75	165	4.336	325
	80	176	4.336	347
	85	187	4.336	369
	90	198	4.336	390
Load Master	70	154	4.824	338
	75	165	4.824	362
	80	176	4.824	386
	85	187	4.824	410
	90	198	4.824	434

BAGGAGE WEIGHT & MOMENT DATA

Situation	Weight (kg)	Weight (lb)	Arm - H (m)	Moment (kg x m)
Pilot	14	30	4.068	55
Copilot	14	30	4.068	55

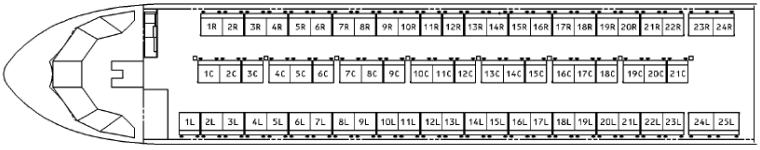
DOCUMENTATION WEIGHT & MOMENT DATA

Situation	Weight (kg)	(lb)	Arm - H (m)	Moment (kg x m)
Pilot	1	2.2	3.705	3.7
Copilot	1	2.2	3.705	3.7

EMERGENCY RACK (MAX. LOAD)

Position	Weight (kg)	(lb)	Arm - H (m)	Moment (kg x m)
Emergency Rack	74	163	4.644	341

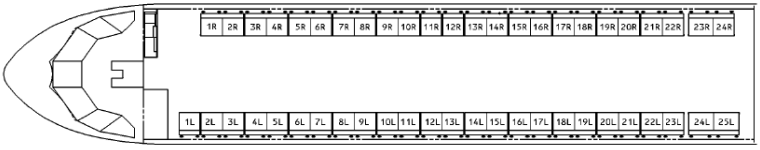
TROOP TRANSPORT CONFIGURATION



Seat Nr.	Arm-H (m)	Moment (kg x m)	Seat Nr.	Arm-H (m)	Moment (kg x m)	Seat Nr.	Arm-H (m)	Moment (kg x m)
1L	5.494	467	1C	5.891	501	1R	5.993	509
2L	5.993	509	2C	6.285	534	2R	6.387	543
3L	6.387	543	3C	6.744	573	3R	6.907	587
4L	6.907	587	4C	7.364	626	4R	7.301	621
5L	7.301	621	5C	7.758	659	5R	7.821	665
6L	7.821	665	6C	8.247	701	6R	8.215	698
7L	8.215	698	7C	8.837	751	7R	8.736	743
8L	8.736	743	8C	9.231	785	8R	9.130	776
9L	9.130	776	9C	9.720	826	9R	9.650	820
10L	9.650	820	10C	10.311	876	10R	10.044	854
11L	10.044	854	11C	10.705	910	11R	10.533	895
12L	10.565	898	12C	11.193	951	12R	10.991	934
13L	10.959	932	13C	11.784	1002	13R	11.480	976
14L	11.480	976	14C	12.178	1035	14R	11.874	1009
15L	11.874	1009	15C	12.667	1077	15R	12.393	1053
16L	12.393	1053	16C	13.257	1127	16R	12.787	1087
17L	12.787	1087	17C	13.651	1160	17R	13.307	1131
18L	13.308	1131	18C	14.140	1202	18R	13.702	1165
19L	13.702	1165	19C	14.730	1252	19R	14.222	1209
20L	14.222	1209	20C	15.124	1286	20R	14.616	1242
21L	14.616	1242	21C	15.613	1327	21R	15.137	1287
22L	15.137	1287				22R	15.531	1320
23L	15.531	1320				23R	16.115	1370
24L	16.115	1370				24R	16.509	1403
25L	16.509	1403						

NOTE: In this table, the weight established for each trooper is 85 kg (187 lb), and is applied to each seat.

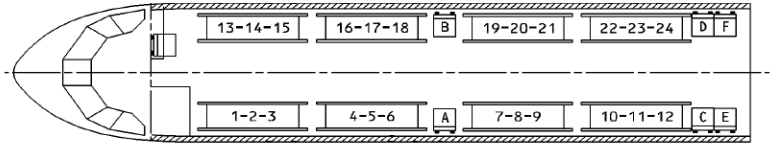
PARATROOP TRANSPORT CONFIGURATION



Seat Nr.	Weight (kg)	Arm-H (m)	Moment (kg x m)	Seat Nr.	Weight (kg)	Arm-H (m)	Moment (kg x m)
1L	120	5.494	659	1R	120	5.993	719
2L	120	5.993	719	2R	120	6.387	766
3L	120	6.387	766	3R	120	6.907	829
4L	120	6.907	829	4R	120	7.301	876
5L	120	7.301	876	5R	120	7.821	939
6L	120	7.821	939	6R	120	8.215	986
7L	120	8.215	986	7R	120	8.736	1048
8L	120	8.736	1048	8R	120	9.130	1096
9L	120	9.130	1096	9R	120	9.650	1158
10L	120	9.650	1158	10R	120	10.044	1205
11L	120	10.044	1205	11R	120	10.565	1268
12L	120	10.565	1268	12R	120	10.959	1315
13L	120	10.959	1315	13R	120	11.480	1378
14L	120	11.480	1378	14R	120	11.874	1425
15L	120	11.874	1425	15R	120	12.393	1487
16L	120	12.393	1487	16R	120	12.787	1534
17L	120	12.787	1534	17R	120	13.308	1597
18L	120	13.308	1597	18R	120	13.702	1644
19L	120	13.702	1644	19R	120	14.222	1707
20L	120	14.222	1707	20R	120	14.616	1774
21L	120	14.616	1754	21R	120	15.137	1816
22L	120	15.137	1816	22R	120	15.531	1864
23L	120	15.531	1864	23R	120	16.115	1934
24L	120	16.115	1934	24R	120	16.509	1981
25L	120	16.509	1981				

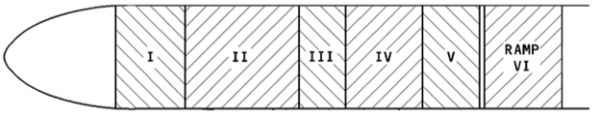
NOTE: In this table, the weight established for each paratrooper is 120 kg (265 lb), and is applied to each seat.

MEDEVAC CONFIGURATION



Position	Weight (kg)	Arm-H (m)	Moment (kg x m)		Position	Weight (kg)	Arm-H (m)	Moment (kg x m)
Seat A	85	10.724	912		Stretcher 10	85	14.788	1256
Seat B	85	10.724	912		Stretcher 11	85	14.788	1256
Seat C	85	16.058	1365		Stretcher 12	85	14.788	1256
Seat D	85	16.058	1365		Stretcher 13	85	6.660	566
Seat E	85	16.566	1408		Stretcher 14	85	6.660	566
Seat F	85	16.566	1408		Stretcher 15	85	6.660	566
Stretcher 1	85	6.660	566		Stretcher 16	85	9.200	782
Stretcher 2	85	6.660	566		Stretcher 17	85	9.200	782
Stretcher 3	85	6.660	566		Stretcher 18	85	9.200	782
Stretcher 4	85	9.200	782		Stretcher 19	85	12.248	1041
Stretcher 5	85	9.200	782		Stretcher 20	85	12.248	1041
Stretcher 6	85	9.200	782		Stretcher 21	85	12.248	1041
Stretcher 7	85	12.248	1041		Stretcher 22	85	14.788	1256
Stretcher 8	85	12.248	1041		Stretcher 23	85	14.788	1256
Stretcher 9	85	12.248	1041		Stretcher 24	85	14.788	1256

CARGO TRANSPORT CONFIGURATION



CARGO CONFIGURATION – TABLE OF MOMENTS					
ZONE	I	II	III	IV	V
ARM (m)	6.406	9.454	11.994	14.026	16.243
CARGO (kg)	**MOMENTS (kg x m)**				
50	320	472	599	701	812
100	640	945	1 199	1 402	1 624
150	961	1 418	1 799	2 104	2 436
200	1 281	1 890	2 398	2 805	3 248
250	1 601	2 363	2 998	3 506	4 060
300	1 922	2 836	3 598	4 207	4 873
350	2 242	3 309	4 197	4 909	5 685
400	2 562	3 781	4 797	5 610	6 497
450	2 863	4 254	5 397	6 311	7 309
500	3 203	4 727	5 997	7 013	8 121
550	3 523	5 199	6 596	7 714	8 933
600	3 847	5 672	7 196	8 415	9 745
650	4 164	6 145	7 796	9 117	10 558
700	4 484	6 617	8 395	9 818	11 370
750	4 804	7 090	8 995	10 519	12 182
800	5 125	7 563	9 595	11 220	12 994
850	5 445	8 036	10 195	11 922	13 806
900	5 765	8 508	10 794	12 623	14 168
950	6 086	8 981	11 394	13 324	15 430
1 000	6 406	9 454	11 994	14 026	16 243

NOTE: Moments for loads that exceed 1000 kg may be calculated by addition.

USABLE FUEL WEIGHT & MOMENT

Main Wing Tanks			
Capacity: 3 389 litres (895 U.S. Gal.)			
kg	lb	Arm – H (m)	Moment (kg x m)
91	200	12.192	1 109
181	400	12.139	2 197
272	600	12.098	3 290
363	800	12.068	4 381
454	1 000	12.039	5 466
544	1 200	12.019	6 538
635	1 400	12.007	7 624
726	1 600	11.994	8 707
816	1 800	11.985	9 780
907	2 000	11.979	10 865
998	2 200	11.973	11 949
1 088	2 400	11.968	13 021
1 134	2 500	11.967	13 570
1 361	3 000	11.959	16 276
1 587	3 500	11.954	18 971
1 814	4 000	11.951	21 679
2 041	4 500	11.949	24 388
2 268	5 000	11.947	27 096
2 494	5 500	11.946	29 793
2 721	6 000	11.944	32 500
2 881	6 351	11.943	34 408

Auxiliary Wing Tanks			
Capacity: 4 111 litres (1 087 U.S. Gal.)			
kg	lb	Arm – H (m)	Moment (kg x m)
91	200	12.111	1 102
181	400	12.076	2 186
272	600	12.054	3 279
363	800	12.046	4 373
454	1 000	12.038	5 466
544	1 200	12.035	6 547
635	1 400	12.032	7 640
726	1 600	12.030	8 733
816	1 800	12.029	9 816
907	2 000	12.029	10 910
998	2 200	12.028	12 004
1 088	2 400	12.029	13 086
1 134	2 500	12.029	13 641
1 361	3 000	12.031	16 374
1 587	3 500	12.033	19 096
1 814	4 000	12.036	21 833
2 041	4 500	12.039	24 571
2 268	5 000	12.042	27 311
2 494	5 500	12.044	30 037
2 721	6 000	12.046	32 777
2 948	6 500	12.049	35 520
3 175	7 000	12.052	38 265
3 401	7 500	12.056	41 002
3 494	7 702	12.058	42 131

NOTE: Fuel Density: 0.85 kg / litre (7.1 lb / U.S. Gal.)

FORM F – WEIGHT AND BALANCE CLEARANCE

FORM F–WEIGHT AND BALANCE CLEARANCE

DATE	AIRPLANE	FROM:	HOME STATION
MISSION/TRIP/FLIGHT/No	SERIAL No	TO:	PILOT

POS		ITEM	WEIGHT	H-ARM	MOMENT	LIMITATION	% MAC
1		BASIC EMPTY WEIGHT (BEW)				PERMISSIBLE CENTER OF GRAVITY 13,5%–32% MAC	
2	CREW MEMBER	PILOT AND COPILOT					
		3th CREW MEMBER					
		LOAD MASTER					
		AUXILIARY CREW MEMBER					
3	OPERATIONAL EQUIPMENTS	CREW'S BAGGAGE					
		MISSION EQUIPMENT					
		EMERGENCY EQUIPMENT					
		OTHERS EQUIPMENTS					
4		OPERATIONAL EMPTY WEIGHT (O.E.W) 1+2+3					
5	PASS/LOAD	PASSENGER/PARACHUT					
		LOAD					
6	MAX. ZERO FUEL WEIGHT	MAX. NORMAL=18500 (4+5)					
		MAX. LOGISTICAL=20700 (4+5)					
		MAX. ASSAULT=16500 (4+5)					
7	T-O FUEL	MAIN TANKS					
		AUXILIARY TANKS					
8		TAKE-OFF WEIGHT (6+7) (Weight and CG Limitation)					
REMARK:							
10		ZERO FUEL WEIGHT (6)					
11	AIRDELIVERY	PARACHUTISTS					
		LOAD					
12	LANDING FUEL	MAIN TANKS					
		AUXILIARY TANKS					
13		LANDING WEIGHT (10-11+12) (Weight and CG Limitation)					

COMPUTED BY	WEIGHT AND BALANCE AUTHORITY	PILOT
NAME:	NAME:	NAME:
SIGNATURE	SIGNATURE	SIGNATURE