INTERNATIONAL STANDARD ISO 3324/I

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Aircraft tyres and rims — Part I : Specifications

Pneumatiques et jantes pour aéronefs — Partie I : Spécifications

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up has the right to be represented on that Committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 3324/I was drawn up by Technical Committee ISO/TC 31, *Tyres, rims and valves,* and circulated to the Member Bodies in July 1974.

It has been approved by the Member Bodies of the following countries :

Australia	Israel	Switzerland
Austria	Italy	Turkey
Canada	Poland	United Kingdom
Czechoslovakia	Romania	U.S.A.
France	Sweden	Yugoslavia

No Member Body expressed disapproval of the document.

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Aircraft tyres and rims — Part I : Specifications

SECTION ONE : TYRES

1 SCOPE AND FIELD OF APPLICATION[1)]

Section One of this International Standard sets out, for civil aircraft tyres,

a) definitions;

b) tyre size designation;

c) tyre markings;

d) new tyre dimensional tolerances;

e) a method for determining growth allowances;

f) a method for determining clearance allowances.

2 DEFINITIONS

For definitions relating to aircraft tyres, ISO 4223/I, *Definitions of some terms used in the tyre industry — Part I : Tyres*[2)], should be consulted.

Meanwhile, for the purposes of Section One of this International Standard, the following definitions apply.

2.1 new tyre : A tyre which has been neither used nor subjected to a retreading operation.

2.2 grown tyre : Any tyre which has been used or subjected to a retreading operation.

2.3 ply rating : A term used to identify a given tyre with its maximum load when used in a specific type of service. It is an index of relative tyre strength.

3 TYRE SIZE DESIGNATION

3.1 Tyre size designation

A tyre size designation in accordance with this International Standard shall consist of a three-part size marking as follows :

Overall diameter X Overall section width — Rim diameter

3.2 Tyre size dimensions

3.2.1 The overall diameter and overall section width are the maximum permitted new inflated tyre dimensions when the tyre is mounted on the specified rim, inflated to its rated inflation pressure, and allowed to stand for a minimum of 12 h at normal room temperature and the inflation pressure readjusted to the original value.

3.2.2 Dimensions are to be expressed as follows :

Tyre, Overall diameter : millimetres (mm) or [inches (in)]

Tyre, Overall section width : millimetres (mm) or [inches (in)]

Rim diameter : inches (in) or millimetres (mm)

4 TYRE MARKINGS

4.1 The marking of tyres shall include the following :

a) tyre size designation;

b) ply rating;

c) maximum speed rating expressed in "knots" or "mph" (miles per hour) on tyres for 140 knots (161 mph) and over;

1) ISO 3324/II, *Aircraft tyres and rims — Part II : Test procedures for aircraft tyres*, is in preparation.

2) In preparation.

d) date of manufacture expressed numerically by year and day of the year using a system of date marking based on the Julian calendar (for example 12 March 1975 becomes 5071). Tyres currently in production may be marked numerically by month and year;

NOTE – The numerical date of manufacture may be the first four digits of the manufacturer's unique serial number.

e) the word "Tubeless" if applicable;

f) manufacturer's name;

g) balance marker.

5 NEW TYRE DIMENSIONAL TOLERANCES

New inflated tyre dimensional tolerances shall be calculated using the factors shown in figure 1 or 2. The size designation determines the maximum permitted new inflated tyre outside diameter and width of section, and therefore tolerances must be calculated as a minus from the permitted maximum dimensions.

6 DETERMINATION OF GROWTH ALLOWANCES

6.1 General

Growth allowances provide for the increase in tyre dimensions over the maximum new inflated tyre dimensions to allow for growth or stretch of the tyre during service.

6.2 Dimensions and symbols

	Inflated new tyre	Inflated grown tyre
Maximum section width[1]	W	W_G
Maximum shoulder width	W_S*	W_{SG}
Maximum overall diameter	D_O	D_G
Maximum shoulder diameter	D_S	D_{SG}
Maximum section height	H	—
Maximum shoulder height	H_S*	—
Rim ledge diameter	D	
Minimum lateral distance required from wheel centre line to adjacent structure	W_X	
Minimum radial distance required from axle centre line to adjacent structure	R_X	
Minimum lateral clearance[2]	C_W	
Minimum radial clearance[2]	C_R	
Minimum shoulder clearance[2]	S_X (radial distance)	

• $W_S = 0{,}88\ W$
$H_S = 0{,}82\ H$

6.3 Calculations

6.3.1 Determine "grown" dimensions as follows, using the appropriate growth factor :

$$W_G = G_W W$$

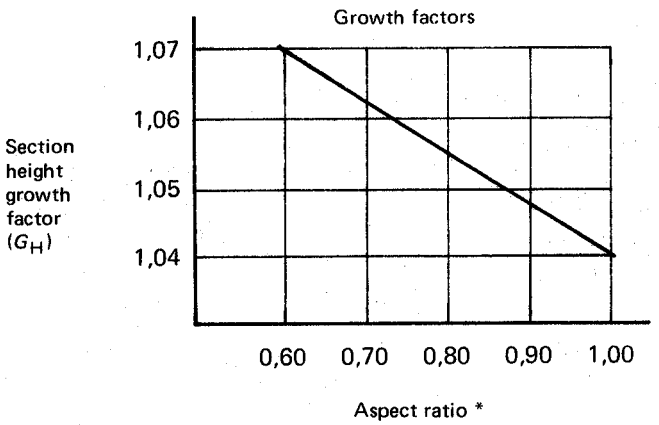
$$D_G = D + 2G_H H$$

$$W_{SG} = G_W W_S$$

$$D_{SG} = D + 2G_H H_S$$

$$H = \frac{D_O - D}{2}$$

$$H_S = \frac{D_S - D}{2}$$



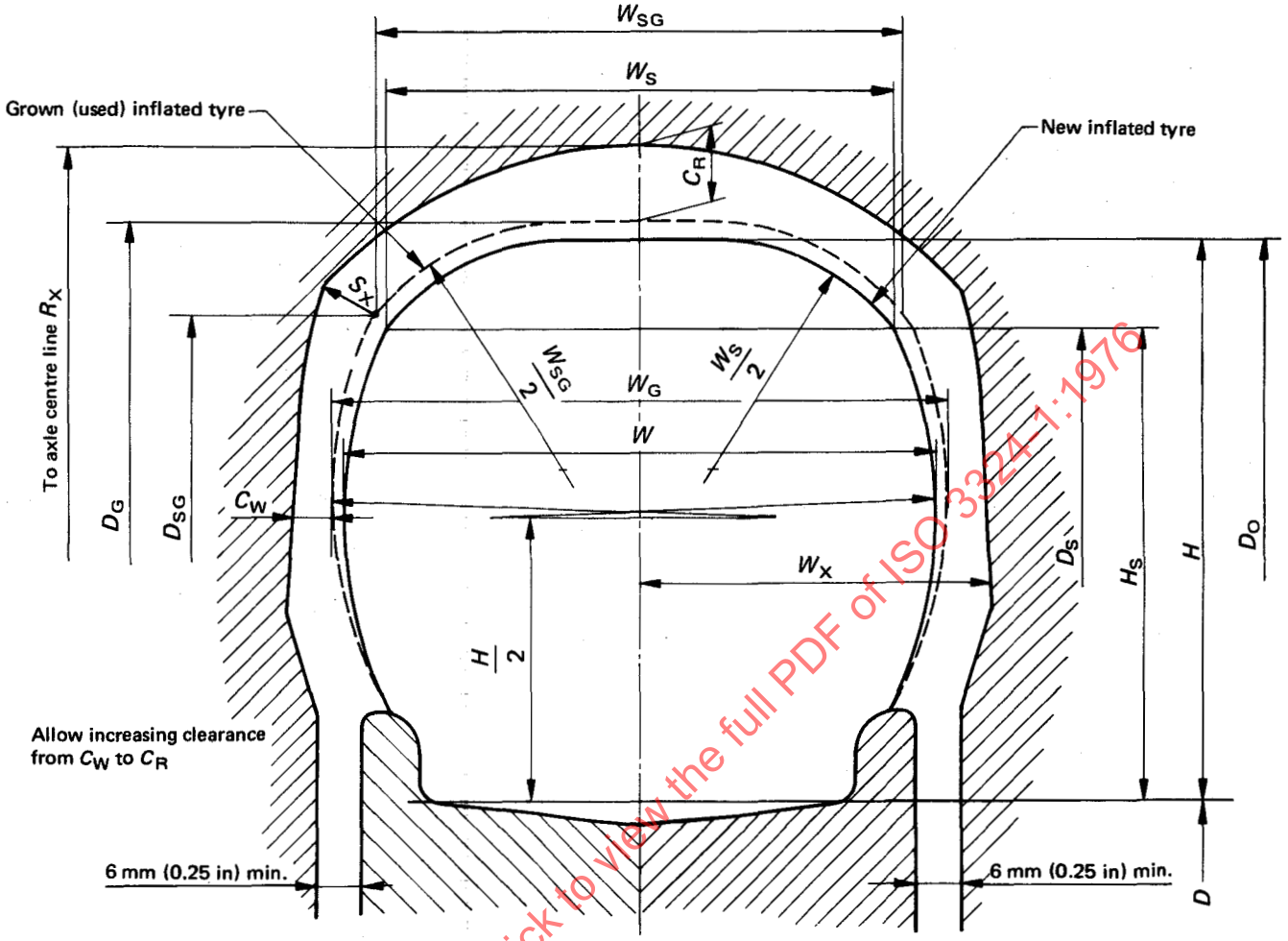
Section width growth factor, $G_W = 1{,}04$

* Aspect ratio (AR) is the ratio of mean section height to mean section width.

6.3.2 Obtain the new tyre dimensions, D_O, D_S, W and W_S, as shown in tyre tables; such dimensions should be considered maxima.

1) Maximum section width includes protective side ribs, lettering bars and decorations, but does not include chines (water deflectors) present on certain types of nose wheel (or auxiliary gear) tyres.

2) These are minimum clearance allowances between the maximum grown tyre and the adjacent structure.



NOTE – Radii $\frac{W_S}{2}$ and $\frac{W_{SG}}{2}$ are drawn through their respective shoulder points tangent to D_O and D_G respectively.

Radii below the shoulder points pass through the shoulder points and are tangent to W and W_G respectively.

Dimensions W and W_G include all protective side ribs, lettering, bars, and decorations.

7 DETERMINATION OF CLEARANCE ALLOWANCES

7.1 Clearance around individual tyres

Clearance allowances between the tyre and the adjacent parts of the aircraft should be based on the maximum overall tyre dimensions plus growth allowance due to service, plus the increase in diameter due to centrifugal force. Minimum distances to adjacent parts of the aircraft are determined as follows :

a) Determine the maximum grown tyre envelope as instructed. (This is the dotted line labelled "grown (used) inflated tyre" on the figure above)

b) Obtain the radial clearance C_R and lateral clearance C_W from figure 3 or 4 (mm or in).

c) Determine the distance to adjacent parts as follows :

$R_{X\,min}$ = Radial distance from axle centre line to adjacent part = $\frac{D_G}{2} + C_R$

$W_{X\,min}$ = Lateral distance from the wheel centre line to adjacent part = $\frac{W_G}{2} + C_W$

$S_{X\,min}$ Radius = Clearance allowed between tyre shoulder area and adjacent part = $\frac{C_W + C_R}{2}$

NOTE – The above radial clearance includes allowances for increase in tyre diameter due to centrifugal force at speeds up to 220 knots (250 mph).

7.2 Spacing between twin tyres

The minimum distance between the tyre tread centre lines shall be $1{,}18 \times W_G$, where W_G is the maximum grown width of the tyre.

7.3 Spacing between tyres in tandem

The minimum distance between axle centres shall be $D_G + 2C_R$, where D_G is the maximum grown tyre diameter and C_R is the tyre radial clearance allowance for the maximum aircraft ground speed.

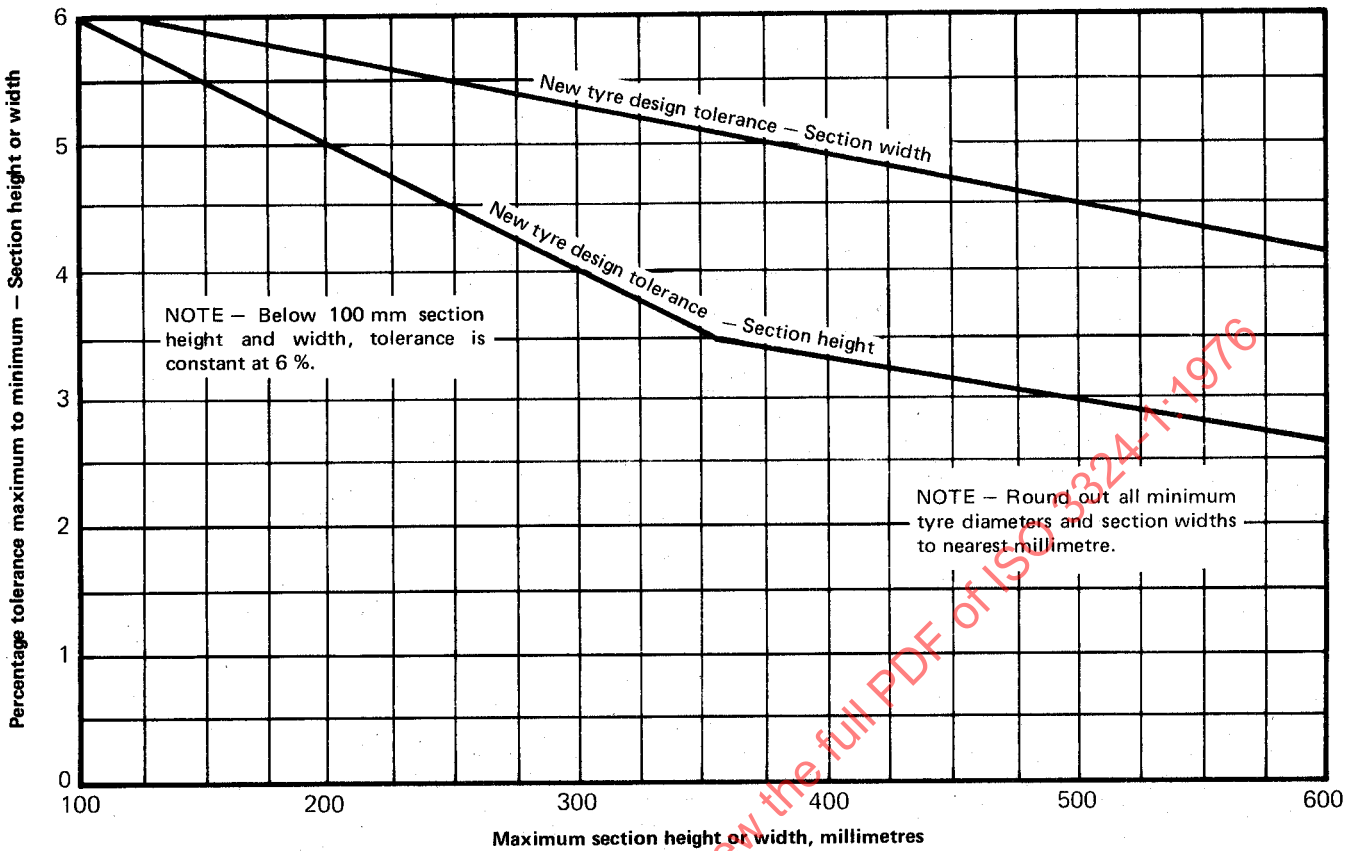


FIGURE 1 — **Aircraft tyre section height and width — Dimensional tolerances (millimetres)**

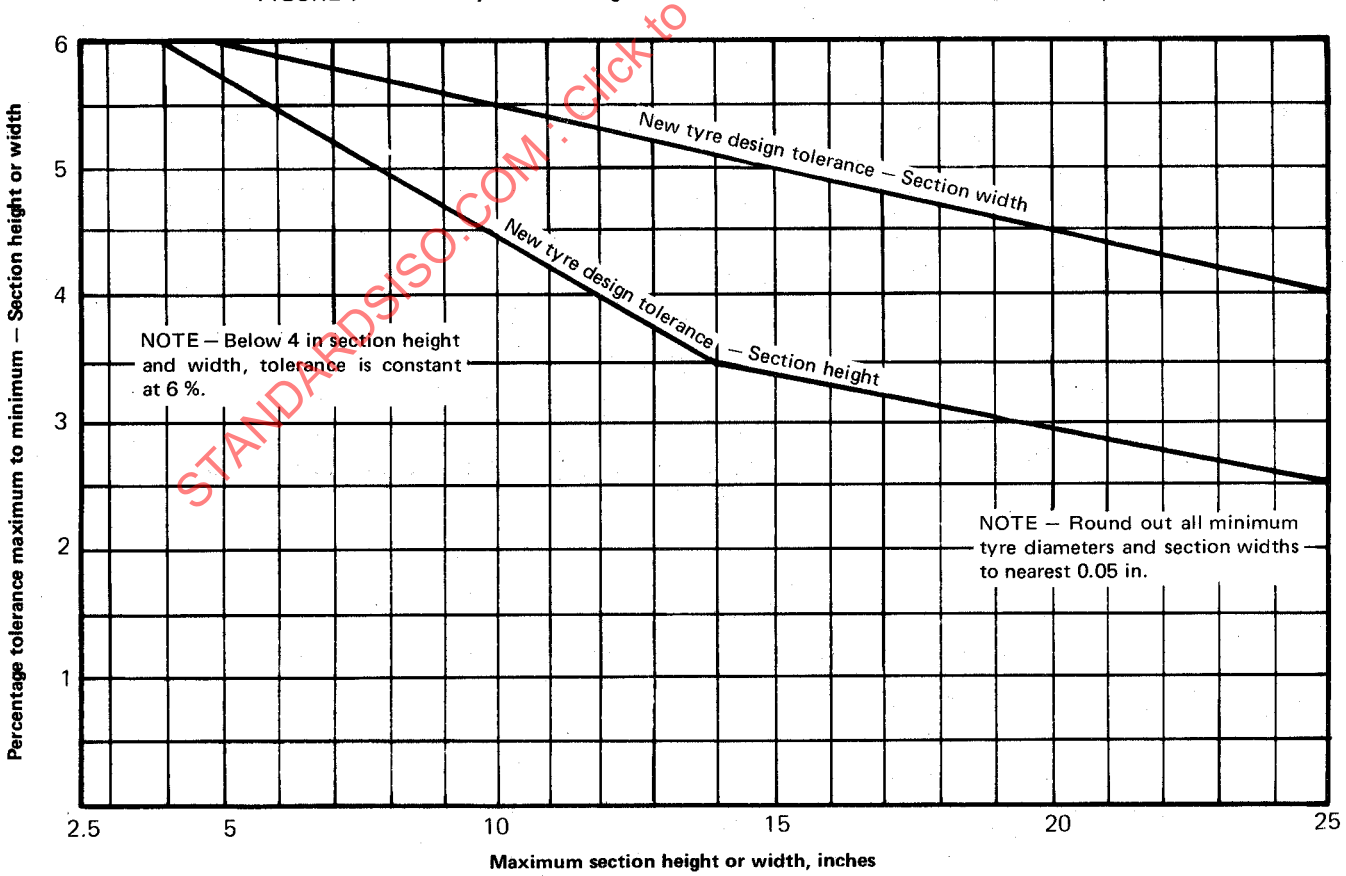


FIGURE 2 — **Aircraft tyre section height and width — Dimensional tolerances (inches)**

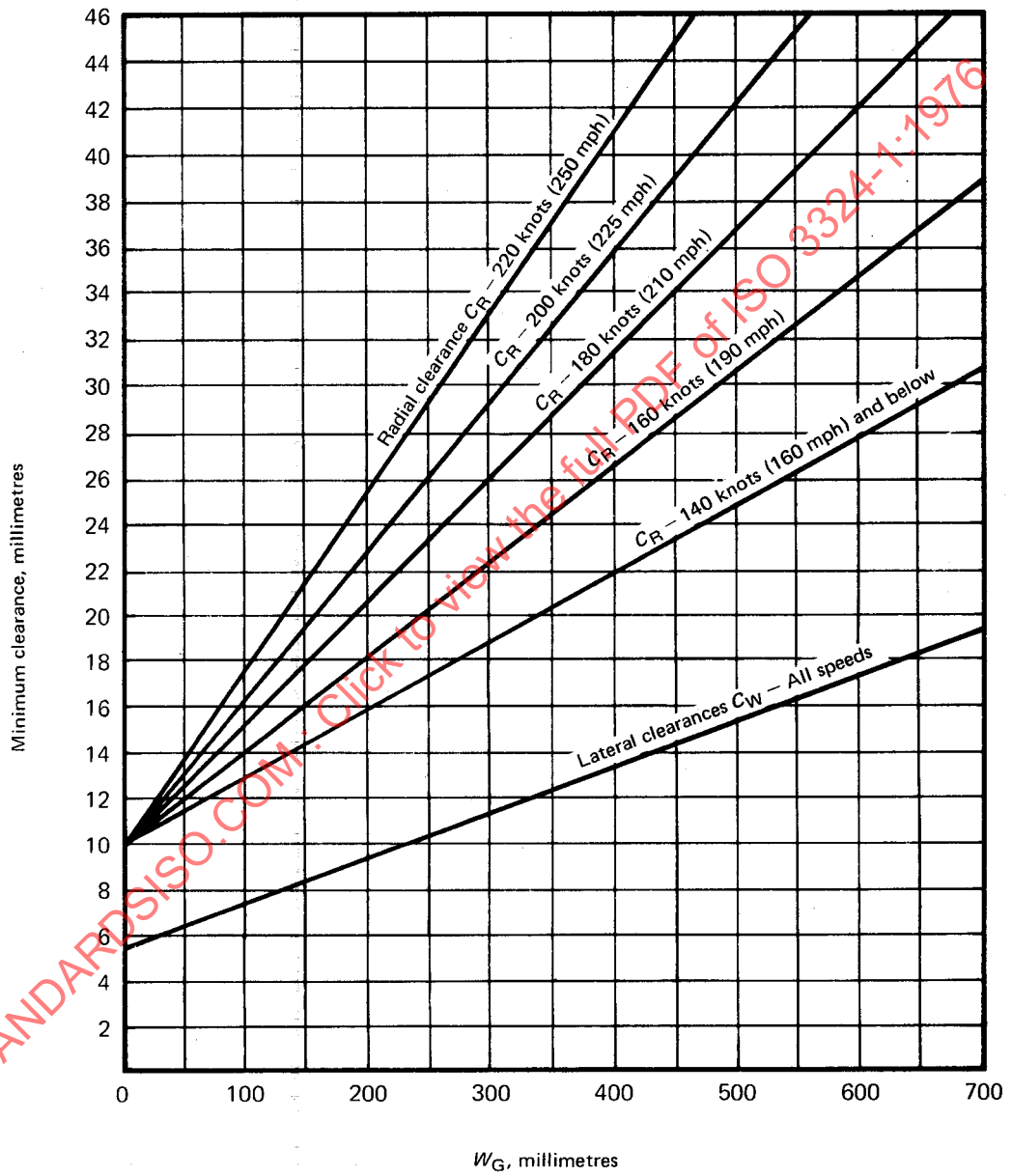


FIGURE 3 – **Chart to be used for calculating radial C_R and lateral C_W clearances**

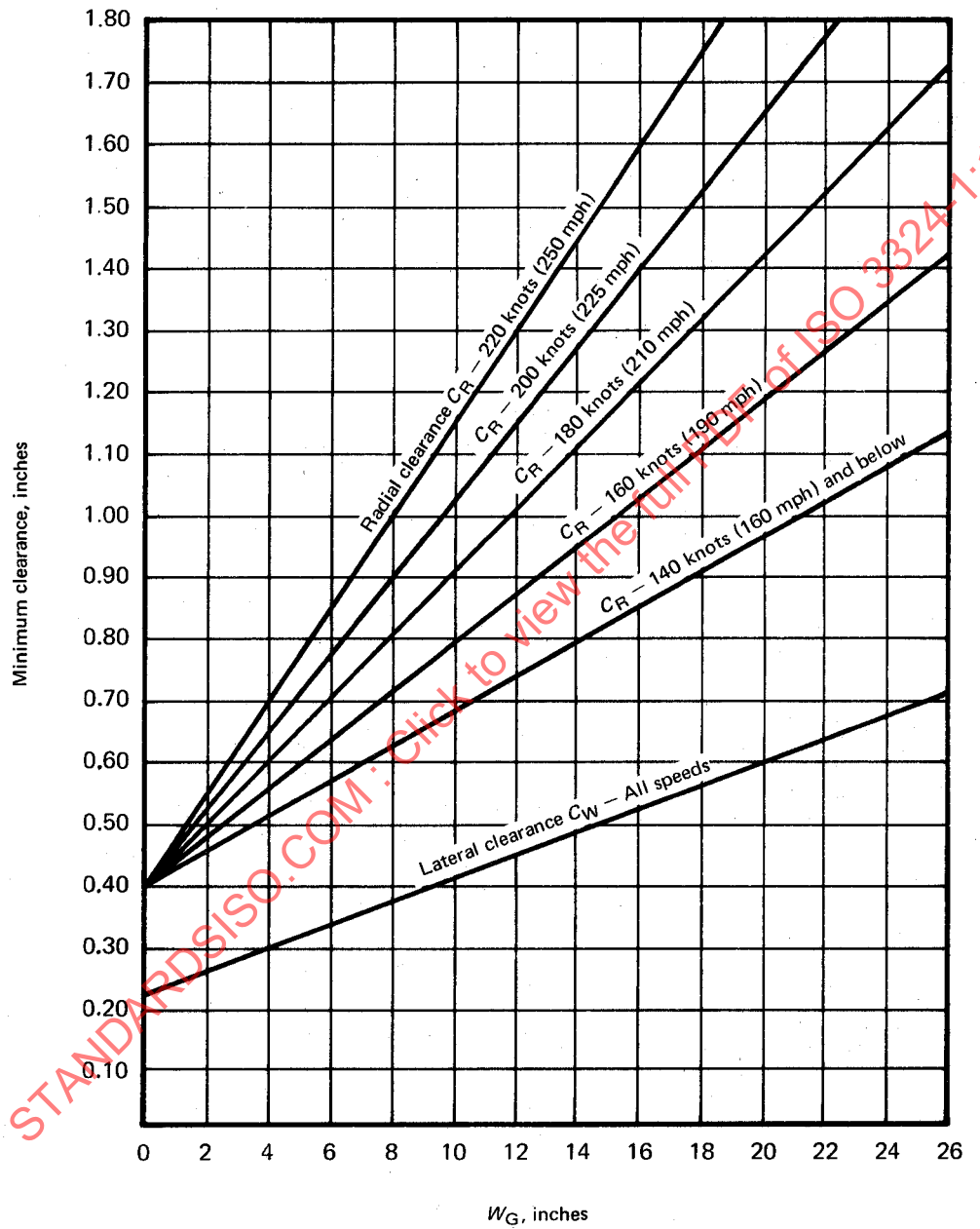


FIGURE 4 – **Chart to be used for calculating radial C_R and lateral C_W clearances**

SECTION TWO : RIMS

8 SCOPE AND FIELD OF APPLICATION

Section Two of this International Standard sets out, for civil aircraft,

a) fundamental rim standards;

b) inspection tolerances for aircraft rims;

c) method of dimensioning and inspection tolerances for rim diameters;

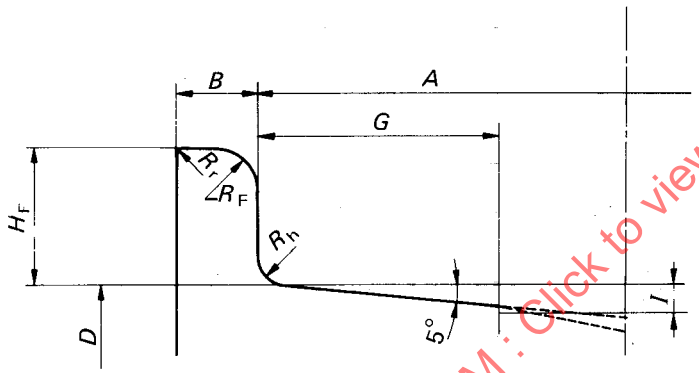
d) design guide for rim flange height;

e) design guide for width between rim flanges;

f) valve hole and fusible plug hole locations

9 FUNDAMENTAL RIM STANDARDS

9.1 Symbols



I_{min} must be maintained between the points where the 5° taper bead seat surfaces intersect a horizontal line located at I_{min} below the bead seat diameter (D)

$$\text{Well depth} = I_{min} = 0{,}087\,5\,(G - R_J) + 0{,}005\,D$$

where G = minimum ledge width

NOTE – Relevant rim dimensions are shown in annex A.

A = width between flanges

B = flange width

D = nominal rim diameter

G = minimum ledge width

H_F = flange height

I = well depth (minimum)

R_F = flange radius

R_h = heel radius

R_r = flange edge radius

9.2 Metric dimensions

Flange height (H_F)

– to be in 3 mm increments up to 50 mm flange height; above 50 mm, increments to be 6 mm.

Flange radius (R_F)

– to be equal to 50 % of flange height.

Flange width (B)

– to be 1,30 × flange radius, to nearest 1 mm.

Flange edge radius (R_r)

– to be 1,5 mm minimum.

Heel radius (R_h)

– to be equal to 25 % of flange height for flanges up to and including 30 mm in height and 22,5 % of flange height for flanges over 30 mm in height. In all cases, adjust flange height to nearest 1 mm.

9.3 Inch dimensions

Flange height (H_F)

– to be in 0.125 in increments up to 2 in flange height; above 2 in, increments to be 0.250 in.

Flange radius (R_F)

– to be equal to 50 % of the flange height.

Flange width (B)

– to be 1,30 × flange radius, to nearest 1/32 in.

Flange edge radius (R_r)

– to be 0.062 in minimum.

Heel radius (R_h)

– to be equal to 25 % of flange height for flanges up to and including 1.25 in in height and 22,5 % of flange height for flanges over 1.25 in in height. In all cases, adjust flange height to nearest 1/32 in.

10 INSPECTION TOLERANCES

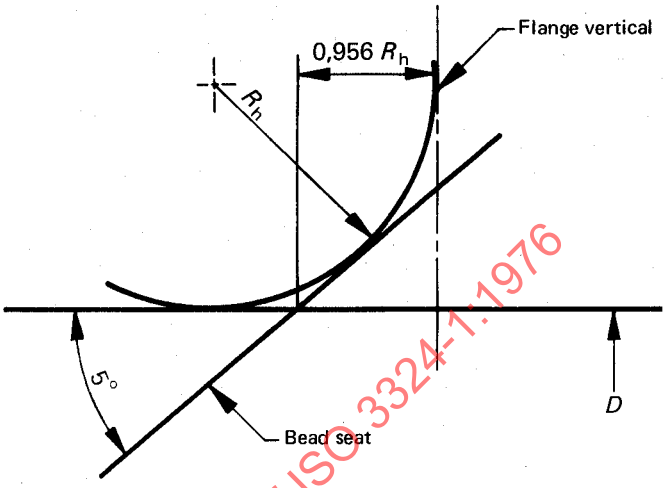
10.1 Metric dimensions (millimetres)

Dimension	Tolerance	
	Plus	Minus
A	1,6	1,6
B	Minimum	
D	See 10.3.1	
G	Minimum	
R_h	0,25	0,25
R_F	0,40	0,40
H_F	0,25	0,25
5° Taper bead seat	30′	30′

10.2 Inch dimensions

Dimension	Tolerance	
	Plus	Minus
A	0.063	0.063
B	Minimum	
D	See 10.3.2	
G	Minimum	
R_h	0.010	0.010
R_F	0.016	0.016
H_F	0.010	0.010
5° Taper bead seat	30′	30′

10.3 Method of dimensioning and inspection tolerances for rim diameters, dimension *D*



10.3.1 *Metric dimensions (millimetres)*

Diameter *D*	Tolerance	
	minus	plus
Up to 109	0	0,25
110 to 509	0	0,40
510 to 620	0	0,50
Over 620	0	0,60

10.3.2 *Inch dimensions*

Diameter *D*	Tolerance	
	Minus	Plus
Up to 4	0	0.010
5 to 20	0	0.015
21 to 24	0	0.019
Over 24	0	0.023

10.4 Design guide for rim flange height

For metric dimensions refer to figure 5; for inch dimensions refer to figure 6.

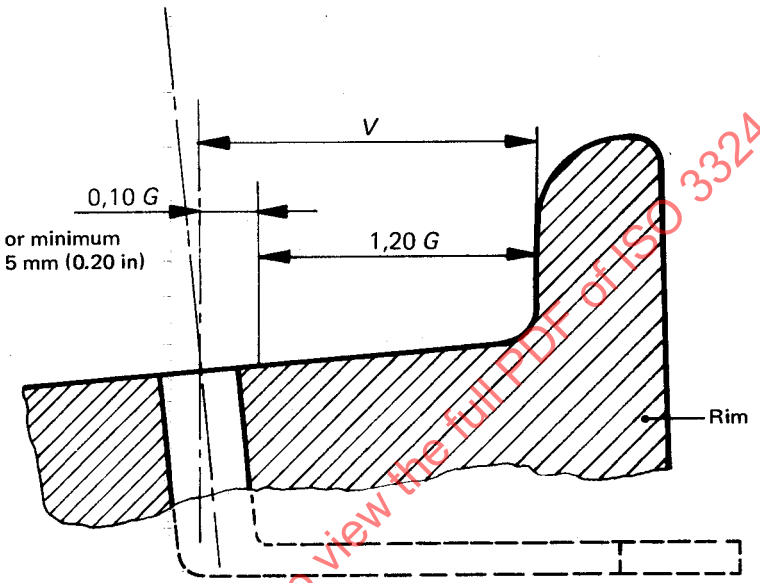
10.5 Design guide for width between rim flanges

Refer to figure 7.

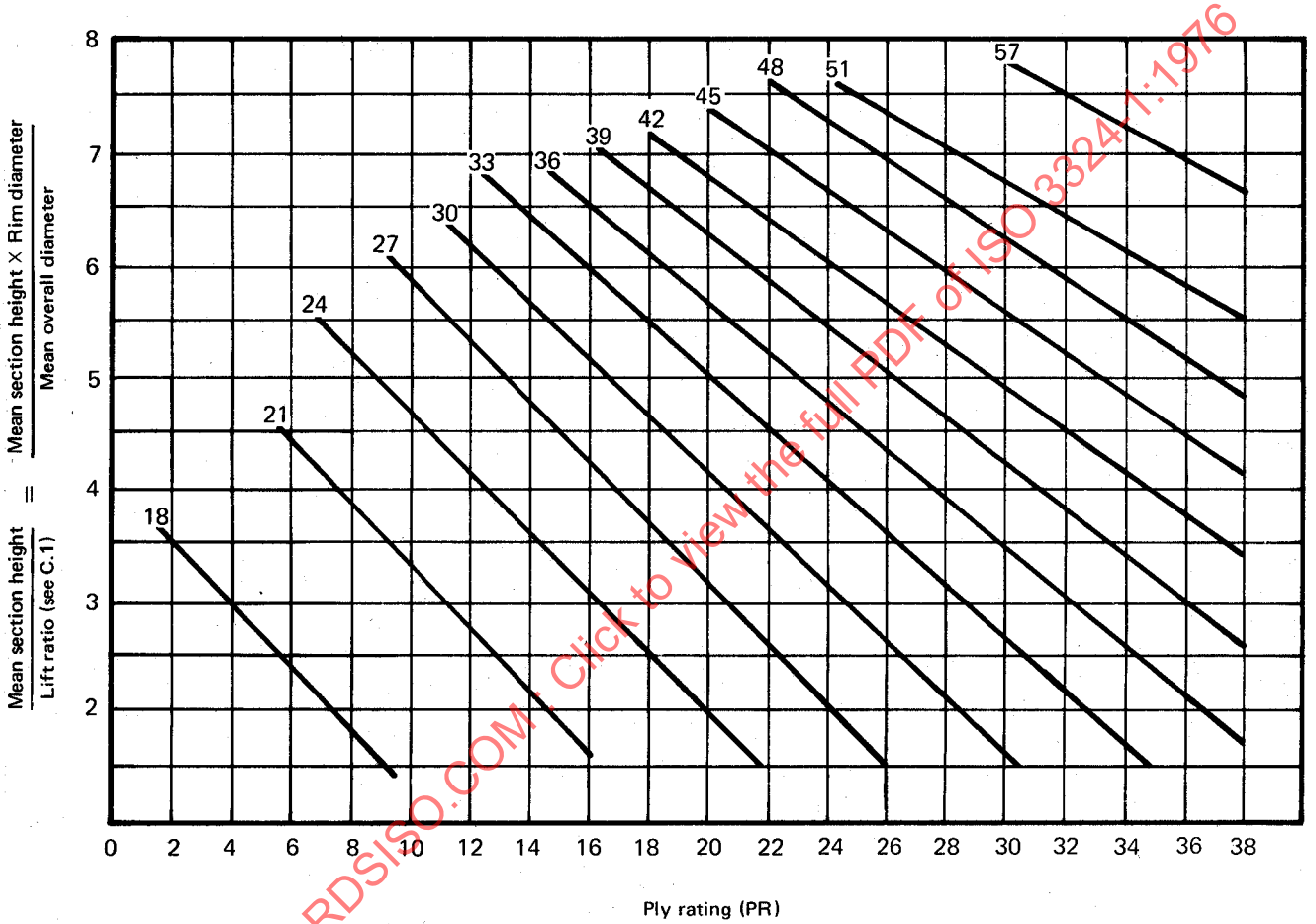
10.6 Valve hole and fusible plug hole locations (or connections to valve or plug hole location((V_{min}) for tubeless tyres.

G = Minimum ledge width

$V_{min} = 1{,}20\,G + 0{,}10\,G$ [$0{,}10\,G$ is not less than 5 mm (0,20 in)]



NOTE — Where V exceeds half the width between the flanges, the valve hole or connection to the valve hole must be located on the centre line of the wheel.

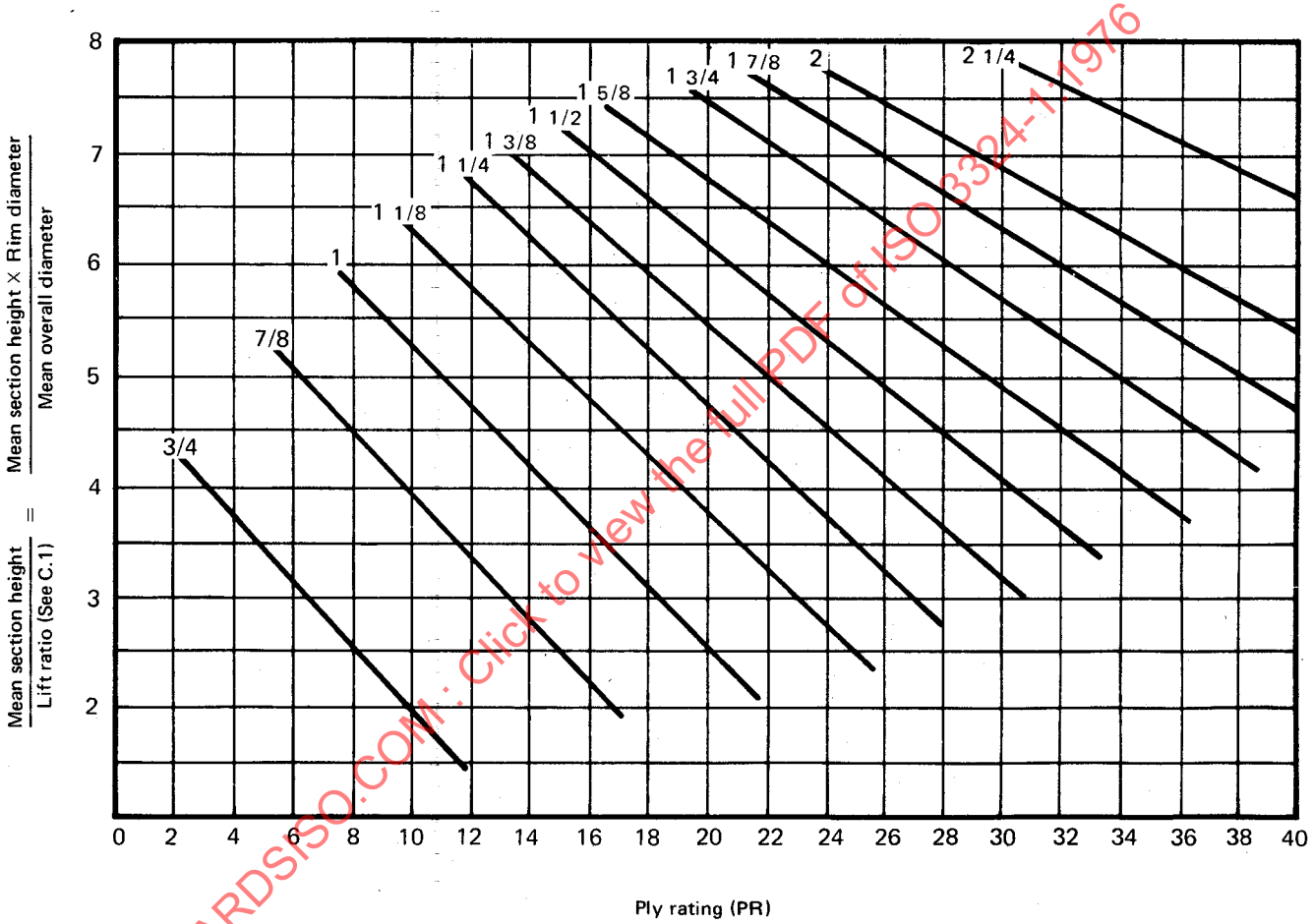


NOTES

1 Base flange height on the required PR plus 4 — to allow for increased aircraft weight.

2 When calculated value falls above a given curve, apply value applicable to the next higher curve.

FIGURE 5 — **Rim flange height — Design guide — Metric units**



NOTES

1 Base flange height on the required PR plus 4 — to allow for increased aircraft weight.

2 When calculated value falls above a given curve, apply value applicable to the next higher curve.

FIGURE 6 — **Rim flange height — Design guide — Inch units**

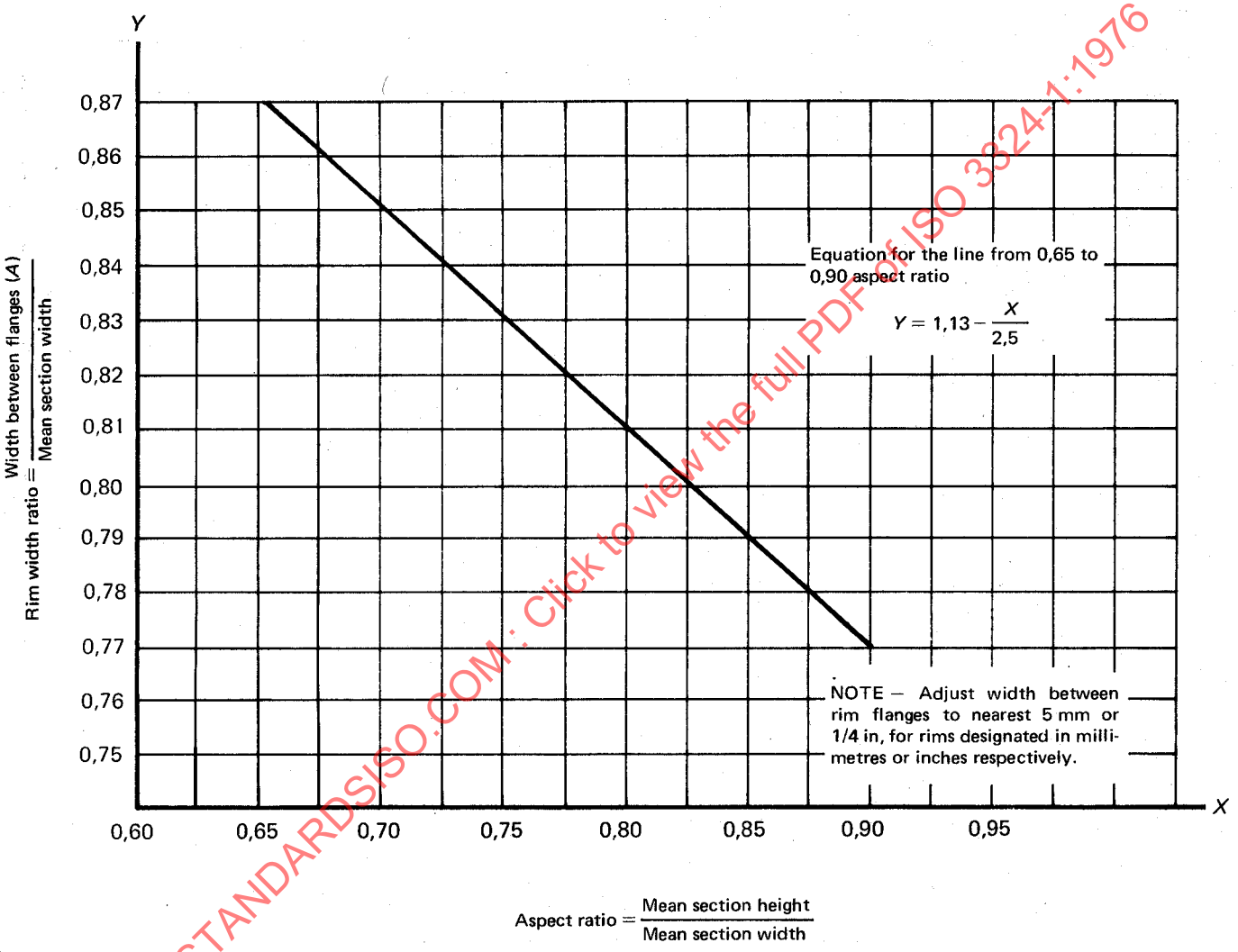


FIGURE 7 — **Width between rim flanges (*A*) — Design guide**

ANNEX A
(For information)

AIRCRAFT TYRE AND RIM DATA

Annex A sets forth as an information item the data on aircraft tyres and rims as contained in European Tyre Rim Technical Organization (ETRTO) and Tire and Rim Association (TRA) documents.

Table 1 – Type III aircraft tyres – Sizes 5.00-4 to 17.00-20

Table 2 – Type III aircraft tyres (ETRTO) – Size 3.50-6 to 22.50-20

Table 3 – Type VII aircraft tyres – Sizes 16 X 4.4 to 49 X 17

Table 4 – Type VII aircraft tyres (ETRTO) – Size 12 X 5-3 to 50 X 18

Table 5 – Type Heli aircraft tyres – Sizes 5.00-5 to 11.00-12

Table 6 – Aircraft tyres – Metric (ETRTO) – Sizes 500 X 180 to 960 X 340-14

Table 7 – Type (New design) aircraft tyres – Sizes 15 X 6.0-6 to 29 X 11.0-10

Table 8 – Type (New) aircraft tyres – Sizes 21 X 7.25-10 to 56 X 20.0-20

TABLE 1 – Type III aircraft tyres

Tyre												Rim (inches)					Tube
Size Section width-Rim diameter	Ply rating	Aspect ratio	Rating			Inflated dimensions						Normal loaded radius**	Size	Width between flanges A	Flange height H_F	Minimum ledge width G	Minimum well depth I	Tube valve TR No. (Form)
			Maximum static load	Maximum nose tyre load during braking	Inflation pressure	Widths			Diameters									
						Cross-section		Shoulder	Centre line		Shoulder							
						min.	max.	max.	min.	max.	max.							
			kg lb	kg lb	bar* lbf/in²	mm in	mm in	mm in	mm in	mm in	mm in	mm in						
5.00-4	6	0,92	540 1 200	790 1 740	3,8 55	121 4.75	128 5.05	109 4.30	323 12.70	337 13.25	295 11.60	132 5.2	5.00-4	3.50	0.750	0.80	0.073	67 (A)
5.00-5	4	0,93	360 800	530 1 160	2,1 31	118 4.65	126 4.95	107 4.20	347 13.65	361 14.20	319 12.55	145 5.7	5.00-5	3.50	0.750	0.80	0.073	67 (A)
5.00-5	6	0,93	570 1 260	850 1 865	3,4 50	118 4.65	126 4.95	107 4.20	347 13.65	361 14.20	319 12.55	145 5.7	5.00-5	3.50	0.750	0.80	0.073	67 (A)
5.00-5 (ETRTO)	8	0,93	770 1 700	1 120 2 465	4,6 66	118 4.65	126 4.95	107 4.20	347 13.65	361 14.20	319 12.55	145 5.7	5.00-5	3.50	0.750	0.80	0.073	67 (A)
6.00-6	4	0,91	520 1 150	760 1 670	2,0 29	150 5.90	160 6.30	136 5.35	427 16.80	445 17.50	392 15.45	175 6.9	6.00-6	5.00	0.750	0.80	0.089	20
6.00-6	6	0,91	790 1 750	1 150 2 540	2,9 42	150 5.90	160 6.30	136 5.35	427 16.80	445 17.50	392 15.45	175 6.9	6.00-6	5.00	0.750	0.85	0.093	20
6.00-6	8	0,91	1 070 2 350	1 550 3 410	3,8 55	150 5.90	160 6.30	136 5.35	427 16.80	445 17.50	392 15.45	175 6.9	6.00-6	5.00	0.750	0.90	0.098	20
7.00-6	4	0,91	570 1 250	820 1 810	1,6 23	168 6.60	178 7.00	151 5.95	457 18.00	476 18.75	418 16.45	185 7.3	6.00-6	5.00	0.750	0.80	0.089	20
7.00-6	6	0,91	860 1 900	1 250 2 760	2,6 38	168 6.60	178 7.00	151 5.95	457 18.00	476 18.75	418 16.45	185 7.3	6.00-6	5.00	0.750	0.85	0.093	20
7.00-6	8	0,91	1 160 2 550	1 680 3 700	3,7 54	168 6.60	178 7.00	151 5.95	457 18.00	476 18.75	418 16.45	185 7.3	6.00-6	5.00	0.750	0.90	0.098	20
8.00-6	4	0,85	610 1 350	890 1 960	1,6 23	191 7.50	202 7.95	171 6.75	476 18.75	495 19.50	433 17.05	191 7.5	6.00-6	5.00	0.750	0.80	0.089	20
8.00-6	6	0,85	930 2 050	1 350 2 970	2,4 35	191 7.50	202 7.95	171 6.75	476 18.75	495 19.50	433 17.05	191 7.5	6.00-6	5.00	0.750	0.85	0.093	20
8.00-6	8	0,85	1 270 2 800	1 840 4 060	3,3 48	191 7.50	202 7.95	171 6.75	476 18.75	495 19.50	433 17.05	191 7.5	6.00-6	5.00	0.750	0.90	0.098	20
8.50-6	6	0,91	1 030 2 275	1 500 3 300	2,1 30	211 8.30	225 8.85	191 7.50	537 21.15	561 22.10	488 19.20	213 8.4	8.50-6	6.00	0.875	0.90	0.095	168 (A)
9.00-6	10	0,89	2 040 4 500	2 960 6 530	4,0 58	221 8.70	235 9.25	199 7.85	544 21.40	569 22.40	494 19.45	216 8.5	9.00-6	6.75	0.875	1.45	0.143	†† 69 (A)

* 1 bar = 10^5 Pa.

** Normal loaded radius = $\frac{D_m}{2} - d$

TABLE 1 (*continued*)

Tyre												Rim (inches)					Tube
Size Section width-Rim diameter	Ply rating	Aspect ratio	Rating			Inflated dimensions						Normal loaded radius	Size	Width between flanges A	Flange height H_F	Minimum ledge width G	Minimum well depth I	Tube valve TR No. (Form)
			Maximum static load	Maximum nose tyre load during braking	Inflation pressure	Widths			Diameters									
						Cross-section		Shoulder	Centre line		Shoulder							
						min.	max.	max.	min.	max.	max.							
			kg lb	kg lb	bar lbf/in²	mm in	mm in	mm in	mm in	mm in	mm in	mm in						
6.50-8	4	0,85	680 1 500	990 2 180	2,1 30	165 6.50	175 6.90	149 5.85	486 19.15	504 19.85	450 17.70	203 8.0	6.50-8	5.25	0.812	0.80	0.092	15
6.50-8	6	0,85	1 040 2 300	1 520 3 340	3,5 51	165 6.50	175 6.90	149 5.85	486 19.15	504 19.85	450 17.70	203 8.0	6.50-8	5.25	0.812	0.85	0.097	15
6.50-8	8	0,85	1 430 3 150	2 070 4 570	5,2 75	165 6.50	175 6.90	149 5.85	486 19.15	504 19.85	450 17.70	203 8.0	6.50-8	5.25	0.812	0.95	0.105	15
7.00-8	4	0,88	730 1 600	1 050 2 320	2,1 30	174 6.85	185 7.30	157 6.20	511 20.10	530 20.85	471 18.55	213 8.4	7.00-8	5.50	0.812	0.80	0.092	15
7.00-8	6	0,88	1 090 2 400	1 580 3 480	3,2 46	174 6.85	185 7.30	157 6.20	511 20.10	530 20.85	471 18.55	213 8.4	7.00-8	5.50	0.812	0.85	0.097	15
7.00-8 (ETRTO)	14	0,88	2 630 5 800	3 810 8 400	7,6 110	174 6.85	185 7.30	157 6.20	511 20.10	530 20.85	471 18.55	213 8.4	7.00-8	5.50	0.812	0.85	0.097	15
6.50-10	4	0,91	790 1 750	1 150 2 540	2,40 35	159 6.25	169 6.65	144 5.65	542 21.35	561 22.10	505 19.90	231 9.1	6.50-10	4.75	0.812	0.80	0.101	25
6.50-10	6	0,91	1 260 2 770	1 820 4 020	4,1 60	159 6.25	169 6.65	144 5.65	542 21.35	561 22.10	505 19.90	231 9.1	6.50-10	4.75	0.812	0.85	0.105	25
6.50-10	8	0,91	1 700 3 750	2 470 5 440	5,5 80	159 6.25	169 6.65	144 5.65	542 21.35	561 22.10	505 19.90	231 9.1	6.50-10	4.75	0.812	0.95	0.114	25
6.50-10	10	0,91	2 150 4 750	3 130 6 890	6,9 100	159 6.25	169 6.65	144 5.65	542 21.32	561 22.10	505 19.90	231 9.1	6.50-10	4.75	0.812	1.35	0.149	25
7.50-10	6	0,92	1 360 3 000	1 970 4 350	3,2 46	183 7.20	194 7.65	165 6.50	592 23.30	613 24.15	549 21.60	246 9.7	7.50-10	5.50	0.812	0.90	0.110	14M
7.50-10 (ETRTO)	8	0,92	1 760 3 880	2 550 5 626	4,3 63	183 7.20	194 7.65	165 6.50	592 23.30	613 24.15	549 21.60	246 9.7	7.50-10	5.50	0.812	0.90	0.110	14M
8.50-10	6	0,90	1 470 3 250	2 140 4 710	2,83 41	208 8.20	221 8.70	188 7.40	627 24.70	652 25.65	579 22.80	259 10.2	8.50-10	6.25	0.812	1.00	0.118	25
8.50-10	8	0,90	2 000 4 400	2 890 6 380	3,79 55	208 8.20	221 8.70	188 7.40	627 24.70	652 25.65	579 22.80	259 10.2	8.50-10	6.25	0.812	1.15	0.131	25
8.50-10	10	0,90	2 500 5 500	3 620 7 980	4,83 70	208 8.20	221 8.70	188 7.40	627 24.70	652 25.65	579 22.80	259 10.2	8.50-10	6.25	0.812	1.35	0.149	25

TABLE 1 (*continued*)

Tyre												Rim (inches)					Tube
Size Section width-Rim diameter	Ply rating	Aspect ratio	Rating			Inflated dimensions						Normal loaded radius	Size	Width between flanges *A*	Flange height H_F	Minimum ledge width *G*	Minimum well depth *I*	Tube valve TR No. (Form)
			Maximum static load	Maximum nose tyre load during braking	Inflation pressure	Widths			Diameters									
						Cross-section		Shoulder	Centre line		Shoulder							
						min.	max.	max.	min.	max.	max.							
			kg lb	kg lb	bar lbf/in²	mm in	mm in	mm in	mm in	mm in	mm in	mm in						
11.00-12	6	0,90	2 090 4 600	3 030 6 670	2,4 35	267 10.50	284 11.20	241 9.50	787 31.00	818 32.20	725 28.55	323 12.8	11.00-12	8.25	1.000	1.00	0.126	13CW
11.00-12	8	0,90	2 860 6 300	4 150 9 140	3,1 45	267 10.50	284 11.20	241 9.50	787 31.00	818 32.20	725 28.55	323 12.8	11.00-12	8.25	1.000	1.10	0.134	13CW
7.50-14	8	0,90	2 590 5 700	3 750 8 270	6,0 87	183 7.20	194 7.65	165 6.50	686 27.00	705 27.75	643 25.30	295 11.6	7.50-14	5.50	0.812	1.10	0.147	176A (E)
7.50-14	10	0,90	3 270 7 200	4 730 10 440	7,6 110	183 7.20	194 7.65	165 6.50	686 27.00	705 27.75	643 25.30	295 11.6	7.50-14	5.50	0.812	1.25	0.160	176A (E)
7.50-14	12	0,90	3 950 8 700	5 720 12 620	9,0 130	183 7.20	194 7.65	165 6.50	686 27.00	705 27.75	643 25.30	295 11.6	7.50-14	5.50	0.812	1.65	0.195	176A (E)
9.50-16	10	0,90	4 200 9 250	6 080 13 410	6,2 90	231 9.10	246 9.70	210 8.25	826 32.50	847 33.35	768 30.25	353 13.9	9.50-16	7.70	1.000	1.50	0.189	176A (E)
9.50-16	12	0,90	5 080 11 200	7 370 16 240	7,6 110	231 9.10	246 9.70	210 8.25	826 32.50	847 33.35	768 30.25	353 13.9	9.50-16	7.70	1.000	1.75	0.211	176A (E)
12.50-16	10	0,89	4 810 10 600	6 970 15 370	4,1 60	305 12.00	324 12.75	276 10.85	953 37.50	977 38.45	874 34.40	396 15.6	12.50-16	10.00	1.250	1.80	0.210	101 (C)
12.50-16	12	0,89	5 800 12 800	8 420 18 560	5,2 75	305 12.00	324 12.75	276 10.85	953 37.50	977 38.45	874 34.40	396 15.6	12.50-16	10.00	1.250	1.90	0.218	101 (C)
12.50-16	14	0,89	6 800 1 500	9 870 21 750	6,2 90	305 12.00	324 12.75	276 10.85	953 37.50	977 38.45	874 34.40	396 15.6	12.50-16	10.00	1.250	2.00	0.228	101 (C)
12.50-16	16	0,89	7 800 17 200	11 310 24 940	7,2 105	305 12.00	324 12.75	276 10.85	953 37.50	977 38.45	874 34.40	396 15.6	12.50-16	10.00	1.250	2.10	0.236	101 (C)
15.00-16	10	0,87	5 530 12 200	8 020 17 690	3,7 53	366 14.40	389 15.30	330 13.00	1 052 41.40	1 077 42.40	956 37.65	427 16.8	15.00-16	11.25	1.188	1.75	0.218	†† 99 (D) † 94 (A)
15.00-16	14	0,87	7 760 17 100	11 250 24 800	4,8 70	366 14.40	389 15.30	330 13.00	1 052 41.40	1 077 42.40	956 37.65	429 16.9	16.00-16	11.25	1.375	1.90	0.224	†† 99 (D) † 94 (A)
17.00-16	10	0,84	6 130 13 500	8 890 19 580	3,3 48	415 16.35	442 17.40	376 14.80	1 110 43.70	1 144 45.05	1 011 39.80	450 17.7	17.00-16	13.25	1.375	1.80	0.215	91 (G)
17.00-16	12	0,84	7 260 16 000	10 530 23 200	4,1 60	415 16.35	442 17.40	376 14.80	1 110 43.70	1 144 45.05	1 011 39.80	450 17.7	17.00-16	13.25	1.375	2.00	0.233	91 (G)

TABLE 1 (*concluded*)

Tyre													Rim (inches)					Tube
Size Section width-Rim diameter	Ply rating	Aspect ratio	Rating			Inflated dimensions						Normal loaded radius	Size	Width between flanges A	Flange height H_F	Minimum ledge width G	Minimum well depth I	Tube valve TR No. (Form)
						Widths			Diameters									
						Cross-section		Shoulder	Centre line		Shoulder							
			Maximum static load	Maximum nose tyre load during braking	Inflation pressure	min.	max.	max.	min.	max.	max.							
			kg lb	kg lb	bar lbf/in²	mm in	mm in	mm in	mm in	mm in	mm in	mm in						
15.50-20	12	0,80	8 160 18 000	11 840 26 100	5,2 75	382 15.05	406 16.00	345 13.60	1 125 44.30	1 149 45.25	1 034 40.70	472 18.6	17.00-20	13.25	1.625	2.10	0.256	92 (C)
15.50-20	14	0,80	9 440 20 800	13 680 30 160	6,2 90	382 15.05	406 16.00	345 13.60	1 125 44.30	1 149 45.25	1 034 40.70	472 18.6	17.00-20	13.25	1.625	2.20	0.265	92 (C)
15.50-20	16	0,80	10 890 24 000	15 790 34 800	7,2 105	382 15.05	406 16.00	345 13.60	1 125 44.30	1 149 45.25	1 034 40.70	472 18.6	17.00-20	13.25	1.625	2.40	0.283	92 (C)
15.50-20	20	0,80	13 560 29 900	19 670 43 360	9,3 135	382 15.05	406 16.00	345 13.60	1 125 44.30	1 149 45.25	1 034 40.70	472 18.6	17.00-20	13.25	1.625	2.85	0.322	92 (C)
17.00-20	16	0,84	11 560 25 500	16 790 36 980	6,6 95	417 16.40	438 17.25	372 14.65	1 212 47.70	1 238 48.75	1 107 43.60	500 19.7	17.00-20	13.25	1.625	2.50	0.291	92 (C)
17.00-20	20	0,84	14 290 31 500	20 740 45 680	8,3 120	417 16.40	438 17.25	372 14.65	1 212 47.70	1 238 48.75	1 107 43.60	500 19.7	17.00-20	13.25	1.625	2.65	0.304	92 (C)
17.00-20	22	0,84	15 650 34 500	22 690 50 030	9,0 130	417 16.40	438 17.25	372 14.65	1 212 47.70	1 238 48.75	1 107 43.60	503 19.8	17.00-20	13.25	1.625	2.80	0.318	92 (C)
17.00-20 (ETRTO)	14	0,84	10 210 22 500	14 790 32 600	4,8 70	417 16.40	438 17.25	372 14.65	1 212 47.70	1 238 48.75	1 107 43.60	500 19.7	17.00-20	13.25	1.625	2.35	0.280	92 (C)

TABLE 2 — **Type III aircraft tyres (ETRTO)**

Tyre												Rim (inches)					Tube
Size Section width-Rim diameter	Ply rating	Aspect ratio	Rating			Inflated dimensions						Normal loaded radius	Size	Width between flanges *A*	Flange height H_F	Minimum ledge width *G*	Minimum well depth *I*	Tube valve TR No. (Form)
			Maximum static load	Maximum nose tyre load during braking	Inflation pressure	Widths			Diameters									
						Cross-section		Shoulder	Centre line		Shoulder							
						min.	max.	max.	min.	max.	max.							
			kg lb	kg lb	bar** lbf/in²	mm in	mm in	mm in	mm in	mm in	mm in	mm in						
3.50-6	4	0,93	450 992	–	3,9 57	87,6 3.45	94 3.70	–	315 12.40	325 12.80	–	135 5.30	3.50-6	2.45	0.56	–	–	*
3.50-6	6	0,93	540 1 200	–	4,8 70	87,6 3.45	94 3.70	–	315 12.40	325 12.80	–	135 5.30	3.50-6	2.45	0.56	–	–	*
5.00-4	4	0,92	320 700	460 1 010	1,7 25	121 4.75	128 5.05	109 4.30	323 12.70	337 13.25	295 11.60	132 5.21	5.00-4	3.50	0.75	0.80	0.073	67 (A)
5.00-4	8	0,92	730 1 600	1 050 2 320	5,2 75	121 4.75	128 5.05	109 4.30	323 12.70	337 13.25	295 11.60	132 5.21	5.00-4	3.50	0.75	0.80	0.073	67 (A)
5.00-4 1/2	6	0,85	750 1 650	750 1 650	5,4 78	127 5.00	135 5.30	915 3.60	329 12.95	341 13.45	338 13.30	150 5.90	5.00-4 1/2	4.00	0.65	0.13	0.125	*
5.50-5	6	0,91	630 1 390	910 2 010	2,8 40	132 5.15	140 5.50	119 4.70	366 14.40	380 15.00	336 13.30	153 6.05	5.50-5	3.50	0.75	0.80	0.073	67 (A)
8.50-6	4	0,91	730 1 600	1 050 2 320	1,4 20	211 8.30	225 8.85	191 7.50	537 21.15	561 22.10	488 19.20	213 8.40	8.50-6	6.00	0.88	0.90	0.095	168 (A)
9.25-12	8	0,86	2 540 5 600	3 680 8 120	4,1 60	229 9.00	241 9.50	206 8.10	696 27.40	716 28.20	643 25.30	290 11.40	9.25-12	7.00	0.88	1.12	–	*
10.50-16	10	0,90	4 350 9 600	6 000 13 220	5,2 75	254 10.00	267 10.50	227 8.95	859 33.80	884 34.80	798 31.40	363 14.30	10.50-16	8.25	1.13	1.60	–	*
10.50-16	12	0,90	5 260 11 600	7 640 16 820	6,2 90	254 10.00	267 10.50	227 8.95	859 33.80	884 34.80	798 31.40	363 14.30	10.50-16	8.25	1.13	1.60	–	*
20.00-20	22	0,90	17 460 38 500	25 310 55 800	6,6 95	488 19.20	511 20.10	434 17.10	1 379 54.30	1 422 56.00	1 257 49.50	559 22.00	20.00-20	15.50	2.00	3.50	0.370	*
20.00-20	26	0,90	21 090 46 500	30 620 67 500	8,6 125	488 19.20	511 20.10	434 17.10	1 379 54.30	1 422 56.00	1 257 49.50	559 22.00	20.00-20	15.50	2.00	3.50	0.370	*
22.5-20	16	0,79	14 320 32 190	–	4,9 71	580 22.83	593 23.35	530 20.87	1 425 56.10	1 475 58.07	1 320 52.00	591 23.27	22.5-20	18.00	2.00	3.75	0.455	*

* Reference valve data not available.

** 1 bar = 10^5 Pa.

TABLE 3 – Type VII aircraft tyres

Tyre												Rim (Inches)					Tube
Size Overall diameter X section width	Ply rating	Aspect ratio	Rating			Inflated dimensions						Normal loaded radius	Width between flanges *A*	Ledge diameter	Flange height H_F	Minimum ledge width *G*	Minimum well depth *I*	Tube valve TR No. (Form)
			Maximum static load	Maximum nose tyre load during braking	Inflation pressure	Widths			Diameters									
						Cross-section		Shoulder	Centre line		Shoulder							
						min.	max.	max.	min.	max.	max.							
			kg lb	kg lb	bar** lbf/in²	mm in	mm in	mm in	mm in	mm in	mm in	mm in						
16 X 4.4	4	0,90	500 1 100	750 1 650	3,8 55	105 4.15	113 4.45	99 3.90	394 15.50	406 16.00	370 14.55	175 6.9	3.50	8.0	0.812	0.80	0.088	*
18 X 4.4	6	0,89	955 2 100	1 430 3 150	6,9 100	105 4.15	113 4.45	99 3.90	442 17.40	455 17.90	419 16.50	201 7.9	3.50	10.0	0.812	1.05	0.120	*
18 X 4.4	10	0,89	1 620 3 550	2 420 5 330	12,8 185	105 4.15	113 4.45	99 3.90	442 17.40	455 17.90	419 16.50	201 7.9	3.50	10.0	0.812	1.25	0.138	*
18 X 4.4	12	0,89	1 970 4 350	2 960 6 530	15,5 225	105 4.15	113 4.45	99 3.90	442 17.40	455 17.90	419 16.50	201 7.9	3.50	10.0	0.812	1.25	0.138	*
18 X 5.5	8	0,87	1 380 3 050	2 070 4 580	7,2 105	136 5.35	146 5.75	127 5.00	439 17.30	455 17.90	411 16.20	191 7.5	4.25	8.0	0.875	1.25	0.130	*
18 X 5.5	10	0,87	1 810 4 000	2 720 6 000	9,7 140	136 5.35	146 5.75	127 5.00	439 17.30	455 17.90	411 16.20	191 7.5	4.25	8.0	0.875	1.40	0.143	*
26 X 6.6	8	0,88	2 400 5 300	3 610 7 950	8,3 120	159 6.25	169 6.65	149 5.85	636 25.05	654 25.75	598 23.55	284 11.2	5.00	14.0	1.000	1.30	0.153	*
26 X 6.6	10	0,88	3 130 6 900	4 690 10 350	10,7 155	159 6.25	169 6.65	149 5.85	636 25.05	654 25.75	598 23.55	284 11.2	5.00	14.0	1.000	1.40	0.166	*
26 X 6.6	12	0,88	3 900 8 600	5 860 12 900	12,8 185	159 6.25	169 6.65	149 5.85	636 25.05	654 25.75	598 23.55	284 11.2	5.00	14.0	1.000	1.50	0.179	176A (G)
26 X 6.6	14	0,88	4 540 10 000	6 800 15 000	15,5 225	159 6.25	169 6.65	149 5.85	636 25.05	654 25.75	598 23.55	284 11.2	5.00	14.0	1.000	1.70	0.197	176A (G)
24 X 7.7	10	0,92	2 460 5 400	3 680 8 100	6,2 90	183 7.20	194 7.65	172 6.75	593 23.30	614 24.15	546 21.50	254 10.0	5.50	10.0	0.906	1.25	0.140	14M
24 X 7.7	14	0,92	3 730 8 200	5 600 12 300	9,3 135	183 7.20	194 7.65	172 6.75	593 23.30	614 24.15	546 21.50	254 10.0	5.50	10.0	0.906	1.60	0.162	14M
24 X 7.7	16	0,92	4 420 9 730	6 620 14 550	11,4 165	183 7.20	194 7.65	172 6.75	593 23.30	614 24.15	546 21.50	254 10.0	5.50	10.0	0.906	1.70	0.180	14M
28 X 7.7	8	0,85	2 610 5 750	3 920 8 630	6,9 100	188 7.40	199 7.85	177 6.95	676 26.60	696 27.40	633 24.90	298 11.7	6.00	14.0	1.000	1.25	0.158	*
28 X 7.7	8	0,85	3 360 7 400	5 025 11 100	8,6 125	188 7.40	199 7.85	177 6.95	676 26.60	696 27.40	633 24.90	298 11.7	6.00	14.0	1.000	1.25	0.158	*

* Reference valve data not available.

** 1 bar = 10^5 Pa

TABLE 3 (*continued*)

Tyre												Rim (Inches)					Tube
Size Overall diameter × section width	Ply rating	Aspect ratio	Rating			Inflated dimensions						Normal loaded radius	Width between flanges *A*	Ledge diameter	Flange height H_F	Minimum ledge width *G*	Minimum well depth *I*	Tube valve TR No. (Form)
			Maximum static load	Maximum nose tyre load during braking	Inflation pressure	Widths			Diameters									
						Cross-section		Shoulder	Centre line		Shoulder							
						min.	max.	max.	min.	max.	max.							
			kg lb	kg lb	bar lbf/in²	mm in	mm in	mm in	mm in	mm in	mm in	mm in						
29 × 7.7	12	0,85	4 450 9 800	6 680 14 700	11,0 160	188 7.40	199 7.85	177 6.95	701 27.60	721 28.40	658 25.90	310 12.2	6.00	15.0	1.000	1.65	0.198	*
29 × 7.7	16	0,85	6 260 13 800	9 390 20 700	15,8 230	188 7.40	199 7.85	177 6.95	701 27.60	721 28.40	658 25.90	310 12.2	6.00	15.0	1.000	2.00	0.228	*
30 × 7.7	12	0,85	4 720 10 400	7 080 15 600	11,4 165	188 7.40	199 7.85	177 6.95	726 28.60	747 29.40	684 26.90	322 12.7	6.00	16.0	1.000	1.65	0.203	176A (D)
30 × 8.8	18	0,87	7 500 16 500	11 300 24 750	15,2 220	212 8.35	226 8.90	201 7.90	749 29.50	772 30.40	696 27.40	328 12.9	7.00	15.0	1.125	2.10	0.234	102 (E)
32 × 8.8	8	0,84	3 090 6 800	4 630 10 200	6,6 95	212 8.35	226 8.90	201 7.90	763 30.05	787 31.00	712 28.05	338 13.3	7.00	16.00	1.125	1.40	0.181	176A (D)
32 × 8.8	10	0,84	3 940 8 700	5 920 13 050	7,9 115	212 8.35	226 8.90	201 7.90	763 30.05	787 31.00	712 28.05	338 13.30	7.00	16.00	1.13	1.65	0.203	*
32 × 8.8	12	0,84	4 990 11 000	7 480 16 500	9,7 140	212 8.35	226 8.90	201 7.90	763 30.05	787 31.00	712 28.05	338 13.3	7.00	16.00	1.125	1.65	0.203	176A (D)
32 × 8.8	14	0,84	5 900 13 000	9 840 19 500	11,7 170	212 8.35	226 8.90	201 7.90	763 30.05	787 31.00	712 28.05	338 13.3	7.00	16.00	1.125	1.75	0.211	176A (D)
32 × 8.8	18	0,84	7 850 17 300	11 770 25 950	15,5 225	212 8.35	226 8.90	201 7.90	763 30.05	787 31.00	712 28.05	338 13.3	7.00	16.00	1.125	2.00	0.233	176 A (D)
34 × 9.9	10	0,86	4 170 9 200	6 260 13 800	6,6 95	242 9.55	259 10.20	224 8.80	825 32.45	848 33.40	765 30.10	361 14.2	8.00	16.00	1.250	1.75	0.211	176 A (D)
34 × 9.9	12	0,86	5 080 11 200	7 620 16 800	7,9 115	242 9.55	259 10.20	224 8.80	825 32.45	848 33.40	765 30.10	361 14.2	8.00	16.00	1.250	1.80	0.216	176 A (D)
34 × 9.9 (ETRTO)	14	0,86	6 350 14 020	9 520 21 000	10,3 150	242 9.55	259 10.20	224 8.80	825 32.45	848 33.40	765 30.10	361 14.2	8.00	16.00	1.250	1.90	0.225	176 A (D)
34 × 11	18	0,87	7 300 16 100	10 950 24 150	10,0 145	269 10.60	287 11.30	253 9.95	828 32.60	848 33.40	760 29.90	354 13.9	9.00	14.00	1.500	2.45	0.255	*
34 × 11	20	0,87	8 300 18 300	12 450 27 450	11,4 165	269 10.60	287 11.30	253 9.95	828 32.60	848 33.40	760 29.90	354 13.9	9.00	14.00	1.500	2.60	0.268	*
34 × 11	22	0,87	9 300 20 500	13 950 30 750	12,7 185	269 10.60	287 11.30	253 9.95	828 32.60	848 33.40	760 29.90	354 13.9	9.00	14.00	1.500	2.70	0.277	*
36 × 11	14	0,83	6 350 14 000	9 530 21 000	8,3 120	275 10.80	292 11.50	257 10.10	864 34.00	887 35.10	804 31.65	374 14.7	9.00	16.00	1.375	2.00	0.228	93 (D)

* Reference valve data not available.

TABLE 3 (*continued*)

Tyre												Rim (Inches)					Tube
Size Overall diameter X section width	Ply rating	Aspect ratio	Rating			Inflated dimensions						Normal loaded radius	Width between flanges *A*	Ledge diameter	Flange height H_F	Minimum ledge width *G*	Minimum well depth *I*	Tube valve TR No. (Form)
			Maximum static load	Maximum nose tyre load during braking	Inflation pressure	Widths			Diameters									
						Cross-section		Shoulder	Centre line		Shoulder							
						min.	max.	max.	min.	max.	max.							
			kg lb	kg lb	bar lbf/in²	mm in	mm in	mm in	mm in	mm in	mm in	mm in						
36 X 11	20	0,83	9 530 21 000	14 290 31 500	12,7 185	275 10.80	292 11.50	257 10.10	864 34.00	887 35.10	804 31.65	374 14.7	9.00	16.00	1.375	2.60	0.280	*
38 X 11	14	0,83	6 990 15 400	10 480 23 100	9,0 130	275 10.80	292 11.50	257 10.10	864 36.00	943 37.10	855 33.65	399 15.7	9.00	18.00	1.375	2.00	0.238	92 (C)
40 X 12	16	0,88	8 390 18 500	12 590 27 750	9,0 130	298 11.70	314 12.35	277 10.90	975 38.40	1 000 39.40	902 35.50	422 16.6	10.00	18.00	1.500	2.40	0.270	91 (C)
40 X 12	18	0,88	9 530 21 000	14 290 31 500	10,3 150	298 11.70	314 12.35	277 10.90	975 38.40	1 000 39.40	902 35.50	422 16.6	10.00	18.00	1.500	2.50	0.279	91 (C)
40 X 12	20	0,88	10 840 23 900	16 260 35 850	11,7 170	298 11.70	314 12.35	277 10.90	975 38.40	1 000 39.40	902 35.50	422 16.6	10.00	18.00	1.500	2.60	0.287	*
40 X 12	22	0,88	12 120 26 700	18 180 40 050	13,1 190	298 11.70	314 12.35	277 10.90	975 38.40	1 000 39.40	902 35.50	422 16.6	10.00	18.00	1.500	2.75	0.300	*
39 X 13	14	0,86	6 810 15 000	10 210 22 500	6,9 100	311 12.25	330 13.00	291 11.45	947 37.30	972 38.25	870 34.25	401 15.8	10.00	16.00	1.250	2.20	0.245	*
39 X 13	16	0,86	7 800 17 200	11 700 25 800	7,9 115	311 12.25	330 13.00	291 11.45	947 37.30	972 38.25	870 34.25	401 15.8	10.00	16.00	1.250	2.30	0.254	*
39 X 13	18	0,86	8 800 19 400	13 200 29 100	9,0 130	311 12.25	330 13.00	291 11.45	947 37.30	972 38.25	870 34.25	401 15.8	10.00	16.00	1.375	2.50	0.271	*
39 X 13	20	0,86	10 120 22 300	15 190 33 450	10,3 150	311 12.25	330 13.00	291 11.45	947 37.30	972 38.25	870 34.25	401 15.8	10.00	16.00	1.375	2.75	0.293	*
39 X 13	22	0,86	11 170 24 600	16 750 36 900	11,4 165	311 12.25	330 13.00	291 11.45	947 37.30	972 38.25	870 34.25	401 15.8	10.00	16.00	1.375	2.80	0.298	*
44 X 13	16	0,87	9 340 20 600	14 020 30 900	7,6 110	325 12.80	343 13.50	300 11.80	1 074 42.30	1 106 43.55	1 002 39.45	467 18.4	11.00	20.00	1.875	2.50	0.282	193
44 X 13	26	0,87	16 240 35 800	24 360 53 700	14,5 210	325 12.80	343 13.50	300 11.80	1 074 42.30	1 106 43.55	1 002 39.45	467 18.4	11.00	20.00	1.875	3.00	0.326	193
40 X 14 (ETRTO)	14	0,86	6 760 14 900	10 150 22 400	6,2 90	337 13.25	356 14.00	305 12.00	988 38.85	1 011 39.10	892 35.10	419 16.50	11.00	16.00	1.630	2.30	0.250	*
40 X 14	18	0,86	8 980 19 800	13 470 29 700	8,3 120	337 13.25	356 14.00	305 12.00	987 38.85	1 011 39.80	892 35.10	419 16.5	11.00	16.00	1.625	2.50	0.267	*

* Reference valve data not available.

TABLE 3 (*continued*)

Tyre												Rim (Inches)					Tube
Size Overall diameter X section width	Ply rating	Aspect ratio	Rating			Inflated dimensions						Normal loaded radius	Width between flanges *A*	Ledge diameter	Flange height H_F	Minimum ledge width *G*	Minimum well depth *I*	Tube valve TR No. (Form)
			Maximum static load	Maximum nose tyre load during braking	Inflation pressure	Widths			Diameters									
						Cross-section		Shoulder	Centre line		Shoulder							
						min.	max.	max.	min.	max.	max.							
			kg lb	kg lb	bar lbf/in²	mm in	mm in	mm in	mm in	mm in	mm in	mm in						
40 X 14	20	0,86	10 120 22 300	15 170 33 450	9,3 135	337 13.25	356 14.00	305 12.00	987 38.85	1 011 39.80	892 35.10	419 16.5	11.00	16.00	1.625	2.65	0.280	*
40 X 14	22	0,86	11 340 25 000	17 010 37 500	10,7 155	337 13.25	356 14.00	305 12.00	987 38.85	1 011 39.80	892 35.10	419 16.5	11.00	16.00	1.625	2.80	0.293	*
40 X 14	24 *	0,86	12 570 27 700	18 850 41 550	11,7 170	337 13.25	356 14.00	305 12.00	987 38.85	1 011 39.80	892 35.10	419 16.5	11.00	16.00	1.625	2.95	0.306	*
40 X 14	26	0,86	13 840 30 500	20 750 45 750	12,8 185	337 13.25	356 14.00	305 12.00	987 38.85	1 011 39.80	892 35.10	419 16.5	11.00	16.00	1.625	3.10	0.320	*
44 X 16	24	0,80	14 610 32 200	21 910 48 300	11,7 17.0	382 15.05	406 16.00	348 13.70	1 074 42.30	1 099 43.25	970 38.20	455 17.9	13.25	18.00	1.625	2.90	0.316	*
44 X 16	26	0,80	16 100 35 500	24 160 53 250	12,8 185	382 15.05	406 16.00	348 13.70	1 074 42.30	1 099 43.25	970 38.20	455 17.9	13.25	18.00	1.625	3.10	0.334	*
44 X 16	28	0,80	17 420 38 400	26 130 57 600	13,8 200	382 15.05	406 16.00	348 13.70	1 074 42.30	1 099 43.25	970 38.20	455 17.9	13.25	18.00	1.625	3.25	0.347	*
44 X 16	30	0,80	18 920 41 700	28 370 62 550	14,5 210	382 15.05	406 16.00	348 13.70	1 074 42.30	1 099 43.25	970 38.20	455 17.9	13.25	18.00	1.625	3.40	0.360	*
44 X 16	32	0,80	20 410 45 000	30 620 67 500	15,5 225	382 15.05	406 16.00	348 13.70	1 074 42.30	1 099 43.25	970 38.20	455 17.9	13.25	18.00	1.625	3.55	0.373	*
46 X 16	20	0,80	13 560 29 900	20 350 44 850	10,0 145	382 15.05	406 16.00	358 14.10	1 125 44.30	1 149 45.25	1 034 40.70	480 18.9	13.25	20.00	1.625	2.85	0.322	*
46 X 16	24	0,80	16 200 35 700	24 290 53 550	11,7 170	382 15.05	406 16.00	358 14.10	1 125 44.30	1 149 45.25	1 034 40.70	480 18.9	13.25	20.00	1.750	3.00	0.328	*
46 X 16	26	0,80	17 370 38 300	26 060 57 450	12,8 185	382 15.05	406 16.00	358 14.10	1 125 44.30	1 149 45.25	1 034 40.70	480 18.9	13.25	20.00	1.750	3.10	0.337	*
46 X 16	28	0,80	18 960 41 800	28 440 62 700	14,5 210	382 15.05	406 16.00	358 14.10	1 125 44.30	1 149 45.25	1 034 40.70	480 18.9	13.25	20.00	1.750	3.25	0.350	*
46 X 16	30	0,80	20 320 44 800	30 480 67 200	15,5 225	382 15.05	406 16.00	358 14.10	1 125 44.30	1 149 45.25	1 034 40.70	480 18.9	13.25	20.00	1.875	3.40	0.359	*
56 X 16	24	0,88	20 410 45 000	30 620 67 500	12.3 178	391 15.40	412 16.20	363 14.30	1 396 54.45	1 433 56.40	1 306 51.40	612 24.1	12.75	28.00	2.250	3.30	0.385	193

* Reference valve data not available.

TABLE 3 (*concluded*)

Tyre													Rim (Inches)					Tube
Size Overall diameter × section width	Ply rating	Aspect ratio	Rating			Inflated dimensions						Normal loaded radius	Width between flanges *A*	Ledge diameter	Flange height H_F	Minimum ledge width *G*	Minimum well depth *I*	Tube valve TR No. (Form)
			Maximum static load	Maximum nose tyre load during braking	Inflation pressure	Widths			Diameters									
						Cross-section		Shoulder	Centre line		Shoulder							
						min.	max.	max.	min.	max.	max.							
			kg lb	kg lb	bar lbf/in²	mm in	mm in	mm in	mm in	mm in	mm in	mm in						
49 × 17	24	0,84	16 380 36 100	24 560 54 150	10,3 150	417 16.40	438 17.25	368 14.50	1 212 47.70	1 238 48.75	1 092 43.00	513 20.2	13.25	20.00	1.750	3.15	0.341	193T92 (C)
49 × 17	26	0,84	17 960 39 600	26 950 59 400	11,4 165	417 16.40	438 17.25	368 14.50	1 212 47.70	1 238 48.75	1 092 43.00	513 20.2	13.25	20.00	1.750	3.25	0.350	193T92 (C)
49 × 17	28	0,84	19 600 43 200	29 400 64 800	12,4 180	417 16.40	438 17.25	368 14.50	1 212 47.70	1 238 48.75	1 092 43.00	513 20.2	13.25	20.00	1.750	3.35	0.359	193T92 (C)
49 × 17	30	0,84	21 050 46 400	31 570 69 600	13,1 190	417 16.40	438 17.25	368 14.50	1 212 47.70	1 238 48.75	1 092 43.00	513 20.2	13.25	20.00	1.875	3.50	0.368	193T92 (C)

TABLE 4 – Type VII aircraft tyres (ETRTO)

Tyre												Rim (Inches)					Tube
Sizes Overall diameter X section width-rim diameter	Ply rating	Aspect ratio	Rating			Inflated dimensions						Normal loaded radius	Width between flanges *A*	Ledge diameter	Flange height H_F	Minimum ledge width *G*	Minimum well depth *I*	Tube valve TR No. (Form)
			Maximum static load	Maximum nose tyre load during braking	Inflation pressure	Widths			Diameters									
						Cross-section		Shoulder	Centre line		Shoulder							
						min.	max.	max.	min.	max.	max.							
			kg lb	kg lb	bar** lbf/in²	mm in	mm in	mm in	mm in	mm in	mm in	mm in						
12 X 5-3	4	0,92	545 1 200	–	4,1 60	122 4.80	124 4.90	107 4.20	300 11.80	305 12.00	264 10.40	117 4.59	3.50	3.00	0.55	0.83	–	*
13 1/2 X 4.25-6	6	0,88	800 1 770	1 160 2 565	6,2 90	107 4.20	112 4.40	95 3.75	339 13.35	349 13.75	314 12.35	146 5.75	3.625	6.00	0.55	1.43	0.125	*
13 1/2 X 4.25-6	8	0,88	970 2 140	1 410 3 100	9,0 130	107 4.20	112 4.40	95 3.75	339 13.35	349 13.75	314 12.35	146 5.75	3.625	6.00	0.55	1.43	0.125	*
14.5 X 5.5-6	14	0,78	1 540 3 395	2 240 4 940	10,8 157	131 5.15	140 5.50	123 4.85	356 14.00	368 14.50	330 13.00	155 6.10	4.250	6.00	0.87	1.65	0.150	*
17 X 8.25-5	8	0,75	1 300 2 865	1 950 4 300	5,4 78	191 7.53	203 8.00	166 6.54	415 16.35	429 16.90	336 14.42	178 7.01	6.320	5.00	0.71	1.38	0.355	*
18 X 4.25-10	6	0,87	1 045 2 300	1 570 3 450	6,9 100	113 4.45	119 4.70	105 4.15	451 17.75	464 18.25	425 16.75	203 8.00	3.625	10.00	0.60	1.13	0.200	*
21 X 6.75-9	8	0,96	1 590 3 510	–	4,8 70	157 6.20	164 6.45	144 5.65	531 20.90	544 21.40	486 19.15	226 8.90	5.00	9.0	0.90	1.13	0.250	*
22 X 5.50-12	16	0,91	4 260 9 390	6 390 14 085	17,2 250	144 5.65	151 5.95	124 4.90	566 22.30	582 22.90	532 20.95	254 10.00	4.88	12.00	0.75	1.75	0.150	*
23 X 7.00-12	10	0,78	3 030 6 675	–	8,6 125	173 6.80	183 7.20	160 6.30	574 22.60	589 23.20	537 21.15	252 9.90	6.25	12.00	0.65	1.69	0.275	*
24 X 7.25-12	8	0,86	2 580 5 680	3 480 7 670	6,9 100	184 7.00	191 7.50	165 6.50	608 23.95	622 24.50	566 22.30	264 10.40	6.25	12.00	0.70	1.38	0.175	*
24 X 7.25-12	10	0,86	3 000 6 600	4 040 8 900	8,3 120	184 7.00	191 7.50	165 6.50	608 23.95	622 24.50	566 22.30	264 10.40	6.25	12.00	0.70	1.38	0.175	*
24.5 X 8.5	10	0,86	2 590 5 700	3 880 8 550	5,9 85	203 8.00	216 8.50	190 7.50	603 23.75	622 24.50	556 21.90	257 10.10	6.25	10.00	0.81	1.35	0.130	*
26 X 6.50-14	8	0,89	2 590 5 700	–	6,9 100	164 6.45	170 6.70	149 5.85	648 25.50	660 26.00	608 23.95	284 11.17	5.75	14.00	0.85	1.50	0.200	*
26 X 6.50-14	12	0,89	3 630 8 000	–	11,0 160	164 6.45	170 6.70	149 5.85	648 25.50	660 26.00	608 23.95	284 11.17	5.75	14.00	0.85	1.56	0.200	*
26 X 7.75-13	8	0,84	2 540 5 600	3 310 7 280	5,9 85	189 7.45	201 7.90	177 6.95	648 25.50	668 26.30	607 23.90	282 11.10	6.63	13.00	0.70	1.50	0.175	*

* Reference valve data not available.

** 1 bar = 10^5 Pa.

TABLE 4 (*continued*)

Tyre												Rim (Inches)					Tube
Sizes Overall diameter X section width-rim diameter	Ply rating	Aspect ratio	Rating			Inflated dimensions											
						Widths			Diameters								
						Cross-section		Shoulder	Centre line		Shoulder						
			Maximum static load	Maximum nose tyre load during braking	Inflation pressure	min.	max.	max.	min.	max.	max.	Normal loaded radius	Width between flanges *A*	Ledge diameter	Flange height H_F	Minimum ledge width *G*	Minimum well depth *I*	Tube valve TR No. (Form)
			kg lb	kg lb	bar lbf/in²	mm in	mm in	mm in	mm in	mm in	mm in	mm in						
26 X 7.75-13	10	0,84	3 290 7 250	4 280 9 425	7,6 110	189 7.45	201 7.90	177 6.95	648 25.50	668 26.30	607 23.90	282 11.10	6.63	13.00	1.00	1.50	0.175	*
26 X 7.75-13	12	0,84	4 060 8 050	5 280 11 635	9,3 135	189 7.45	201 7.90	177 6.95	648 25.50	668 26.30	607 23.90	282 11.10	6.63	13.00	1.00	1.55	0.175	*
26 X 7.75-13	14	0,84	4 880 10 750	6 340 13 975	11,0 160	189 7.45	201 7.90	177 6.95	648 25.50	668 26.30	607 23.90	282 11.10	6.63	13.00	1.00	1.80	0.200	*
27 X 8.75-12	6	0,87	2 070 4 570	–	3,5 50	212 8.35	224 8.80	182 7.15	674 26.55	692 27.25	627 24.70	284 11.20	6.88	12.00	0.80	1.31	0.175	*
27.5 X 10.50-12	14	0,77	3 900 8 600	–	6,4 93	243 9.55	257 10.10	240 9.45	676 26.60	694 27.30	6,30 24.80	284 11.20	8.25	12.00	1.00	1.66	0.210	*
28 X 9.00-12	8	0,86	2 700 5 940	4 050 8 910	4,5 65	226 8.90	239 9.40	203 8.00	696 27.40	719 28.30	644 25.35	290 11.40	6.63	12.00	0.75	1.38	0.175	*
28 X 9.00-12	10	0,86	3 250 7 150	4 870 10 730	5,5 80	226 8.90	239 9.40	203 8.00	696 27.40	719 28.30	644 25.35	290 11.40	6.63	12.00	0.75	1.50	0.175	*
29 X 8.00-15	10	0,90	4 050 8 930	5 490 12 100	8,3 120	199 7.85	206 8.10	182 7.15	739 29.10	754 29.70	687 27.05	321 12.65	6.88	15.00	0.95	1.75	0.250	*
29 X 8.00-15	12	0,90	4 550 10 000	6 170 13 600	9,7 140	199 7.85	206 8.10	182 7.15	739 29.10	754 29.70	687 27.05	321 12.65	6.88	15.00	0.95	1.75	0.250	*
29 X 9.25-13	10	0,89	3 130 6 900	–	4,8 70	229 9.00	241 9.50	196 7.70	738 29.05	761 29.95	676 26.60	314 12.35	8.00	13.00	1.05	1.88	0.350	*
29 X 9.25-13	12	0,89	3 950 8 700	–	6,2 90	229 9.00	241 9.50	196 7.70	738 29.05	761 29.95	676 26.60	314 12.35	8.00	13.00	1.05	1.88	0.350	*
31 X 10.75-14	18	0,79	–	–	–	265 10.45	281 11.05	247 9.72	777 30.58	798 31.42	718 28.28	335 13.18	9.00	14.00	1.25	–	–	*
31 X 10.75-14	20	0,79	8 490 18 700	11 460 25 245	12,8 185	265 10.45	281 11.05	247 9.72	777 30.58	798 31.42	718 28.28	335 13.18	9.00	14.00	1.25	3.25	0.330	*
31 X 11.50-16	22	0,66	10 570 23 300	15 860 34 950	19,0 275	274 10.80	292 11.50	257 10.10	767 30.20	787 31.00	719 28.30	340 13.36	9.00	16.00	1.25	2.65	0.280	*

* Reference valve data not available.

TABLE 4 (*continued*)

Tyre												Rim (Inches)					Tube
Sizes Overall diameter × section width-rim diameter	Ply rating	Aspect ratio	Rating			Inflated dimensions					Normal loaded radius	Width between flanges *A*	Ledge diameter	Flange height H_F	Minimum ledge width *G*	Minimum well depth *I*	Tube valve TR No. (Form)
			Maximum static load	Maximum nose tyre load during braking	Inflation pressure	Widths			Diameters								
						Cross-section		Shoulder	Centre line		Shoulder						
						min.	max.	max.	min.	max.	max.						
			kg lb	kg lb	bar lbf/in²	mm in	mm in	mm in	mm in	mm in	mm in	mm in					
32 × 10.75-14	12	0,84	4 630 10 000	–	5,9 85	268 10.55	278 10.95	241 9.50	804 31.65	827 32.55	725 28.55	337 13.25	9.13	14.00	1.05	2.00	0.300	*
33 × 675-20	20	0,99	9 640 21 250	–	24,1 350	164 6.45	174 6.85	154 6.05	831 32.70	850 33.45	787 31.00	375 14.75	5.50	20.00	1.00	1.81	0.250	*
33 × 9.75-16	10	0,90	4 650 10 250	5 810 12 800	6,2 90	240 9.45	250 9.85	201 7.90	838 33.00	859 33.80	772 30.40	362 14.25	8.25	16.00	1.05	1.75	0.250	*
33 × 9.75-16	12	0,90	5 270 11 600	6 580 14 500	7,6 110	240 9.45	250 9.85	201 7.90	838 33.00	859 33.80	772 30.40	362 14.25	8.25	16.00	1.05	2.13	0.250	*
33 × 9.75-16	14	0,90	5 900 13 000	7 350 16 200	9,0 130	240 9.45	250 9.85	201 7.90	838 33.00	859 33.80	772 30.40	362 14.25	8.25	16.00	1.05	2.13	0.250	*
34 × 9.50-18	12	0,80	6 230 13 725	–	11,0 160	235 9.25	249 9.80	218 8.60	833 32.80	853 33.60	782 30.80	368 14.48	7.50	18.00	1.13	2.25	0.235	*
34 × 10.75-16	10	0,85	4 930 10 850	–	5,5 80	263 10.35	278 10.95	236 9.30	855 33.65	878 34.55	792 31.20	361 14.20	9.25	16.00	1.05	1.85	0.225	*
34 × 10.75-16	12	0,89	5 343 11 780	–	6,6 96	251 9.90	265 10.45	226 8.90	855 33.65	876 34.50	791 31.15	364 14.35	8.00	16.00	1.25	1.80	0.215	*
34 × 11.75-14	10	0,84	4 400 9 700	6 380 14 050	4,5 65	291 11.45	306 12.05	260 10.25	848 33.40	879 34.60	785 30.90	353 13.90	9.13	14.00	1.10	1.75	0.300	*
34 × 11.75-14	12	0,84	5 450 12 000	7 900 17 400	5,5 80	291 11.45	306 12.05	260 10.25	848 33.40	879 34.60	785 30.90	353 13.90	9.13	14.00	1.10	1.75	0.300	*
35 × 9.00-17	14	0,97	6 350 14 000	–	10,3 149	220 8.67	232 9.14	208 8.20	862 33.90	889 35.00	803 31.60	375 14.78	7.25	17.00	1.10	2.25	0.265	*
35 × 9.00-17	16	0,97	7 400 16 315	–	11,7 170	220 8.67	232 9.14	208 8.20	862 33.90	889 35.00	803 31.60	375 14.78	7.25	17.00	1.10	2.25	0.265	*
35 × 9.00-17	18	0,97	8 500 18 740	–	13,1 190	220 8.67	232 9.14	208 8.20	862 33.90	889 35.00	803 31.60	375 14.78	7.25	17.00	1.10	2.50	0.285	*
35 × 10.00-17	22	0,90	11 440 25 200	–	16,6 240	246 9.70	259 10.20	229 9.00	878 34.55	903 35.55	818 32.20	381 15.00	8.63	17.00	1.38	2.50	0.275	*
36 × 10.00-18	16	0,91	8 170 18 000	–	11,4 165	248 9.75	262 10.30	230 9.05	908 35.75	930 36.60	845 33.25	394 15.50	8.63	18.00	1.10	2.38	0.275	*

* Reference valve data not available.

TABLE 4 (*concluded*)

Tyre												Rim (Inches)					Tube
Sizes Overall diameter X section width-rim diameter	Ply rating	Aspect ratio	Rating			Inflated dimensions						Normal loaded radius	Width between flanges *A*	Ledge diameter	Flange height H_F	Minimum ledge width *G*	Minimum well depth *I*	Tube valve TR No. (Form)
						Widths			Diameters									
			Maximum static load	Maximum nose tyre load during braking	Inflation pressure	Cross-section		Shoulder	Centre line		Shoulder							
						min.	max.	max.	min.	max.	max.							
			kg lb	kg lb	bar lbf/in²	mm in	mm in	mm in	mm in	mm in	mm in	mm in						
36 X 10.00-18	18	0,91	9 930 21 875	–	13,1 190	248 9.75	262 10.30	230 9.05	908 35.75	930 36.60	845 33.25	394 15.50	8.63	18.00	1.13	2.50	0.275	*
36 X 10.75-16 1/2	16	0,90	7 580 16 700	–	9,0 130	264 10.40	274 10.80	222 8.75	894 35.20	914 36.00	815 32.10	381 15.00	9.00	16.50	1.15	2.13	0.225	*
37 X 11.75-16	8	0,90	3 810 8 400	5 715 12 600	3,5 50	283 11.15	298 11.75	263 10.35	917 36.10	940 37.00	843 33.20	381 15.02	9.25	16.00	1.00	1.63	0.225	*
40 X 11.75-19	20	0,90	11 210 24 700	–	12,1 175	283 11.15	298 11.75	263 10.35	993 39.10	1 022 40.25	926 36.45	429 16.90	9.75	19.00	1.25	2.63	0.300	*
42 X 17.00-16	22	0,77	12 300 27 100	18 460 40 650	9,3 135	411 16.20	432 17.00	380 14.95	1 043 41.05	1 067 42.00	947 37.30	437 17.20	13.50	16.00	1.63	2.90	0.305	*
43 X 12.50-21	20	0,89	12 890 28 400	–	11,0 160	311 12.25	326 12.85	281 12.05	1 087 42.80	1 118 44.00	998 39.30	469 18.45	10.75	21.00	1.38	3.13	0.300	*
43 X 13.50-19	16	0,90	9 620 21 200	–	6,9 100	331 13.05	349 13.75	307 12.10	1 081 42.55	1 114 43.85	1 000 39.38	456 17.95	11.50	19.00	1.40	2.75	0.315	*
47 X 15.75-22	26	0,83	21 200 46 700	–	13,1 190	386 15.20	406 16.00	357 14.05	1 199 47.20	1 222 48.10	1 102 43.40	507 19.95	12.75	22.00	1.75	3.75	0.405	*
50 X 18	26	0,85	18 950 41 770	28 420 62 655	10,7 155	423 16.65	445 17.50	391 15.40	1 232 48.50	1 257 49.50	1 121 44.20	521 20.50	14.25	20.00	1.75	3.50	0.370	*

* Reference valve data not available.

TABLE 5 — Type Heli aircraft tyres

Tyre												Rim (inches)						Tube
Size Section width-rim diameter	Ply rating	Aspect ratio	Rating			Inflated dimensions						Normal loaded radius	Size	Width between flanges A	Ledge diameter	Flange height H_F	Minimum ledge width G	Minimum well depth I	Tube valve TR No. (Form)
						Widths			Diameter										
						Cross-section		Shoulder	Centre line		Shoulder								
			Maximum static load	Maximum nose tyre load during braking	Normal maximum permissible inflation pressure	min.	max.	max.	min.	max.	max.								
			kg lb	kg lb	bar* lbf/in²	mm in	mm in	mm in	mm in	mm in	mm in	mm in							
5.00-5	6	0,93	950 2 100	1 390 3 060	5,1/6,1 74/88	118 4.65	131 5.15	111 4.35	347 13.65	370 14.55	326 12.85	142 5.6	5.00-5	3.50	5.00	0.750	0.80	0.078	67 (A)
6.00-6	6	0,91	1 320 2 920	1 920 4 240	4,3/5,2 63/76	150 5.90	166 6.55	141 5.55	427 16.80	456 17.95	403 15.85	173 6.8	6.00-6	5.00	6.00	0.750	0.85	0.093	20
6.00-6	8	0,91	1 780 3 920	2 560 5 650	5,7/6,8 83/99	150 5.90	166 6.55	141 5.55	427 16.80	456 17.95	403 15.85	173 6.8	6.00-6	5.00	6.00	0.750	0.90	0.098	20
6.50-10	6	0,91	2 100 4 630	3 040 6 710	6,2/7,4 90/108	159 6.25	175 6.90	150 5.90	542 21.35	574 22.60	521 20.50	229 9.0	6.50-10	4.75	10.00	0.812	0.85	0.105	25
7.50-10	6	0,92	2 270 5 000	3 290 7 250	4,8/5,7 69/83	183 7.20	202 7.95	172 6.75	592 23.30	627 24.70	560 22.50	244 9.6	7.50-10	5.50	10.00	0.812	0.90	0.110	14M
8.50-10	10	0,90	4 170 9 200	6 050 13 330	7,2/8,7 105/126	208 8.20	230 9.05	196 7.70	627 24.70	668 26.30	593 23.35	254 10.0	8.50-10	6.25	10.00	0.812	1.35	0.149	25
11.00-12	6	0,90	3 130 6 900	4 540 10 000	3,7/4,3 53/63	267 10.50	296 11.65	252 9.90	787 31.00	838 33.00	743 29.25	328 12,9	11.00-12	8.25	12.00	1.000	1.00	0.126	13CW
— New design Heli —																			
29 × 11.0-10	10	0,87	4 810 10 600	6 980 15 380	6,2/7,4 90/108	264 10.40	291 11.45	248 9.75	714 28.10	756 29.75	666 26.20	292 11.5	29 × 11.0-10	8.50	10.00	1.000	1.60	0.168	TBLS.

* 1 bar = 10^5 Pa.

TABLE 6 — Aircraft tyres — Metric (ETRTO)

Tyre													Rim*						Tube
Size Outside diameter × section width-rim diameter	Ply rating	Aspect ratio	Rating			Inflated dimensions						Normal loaded radius	Size	Width between flanges A	Ledge diameter	Flange height H_F	Minimum ledge width G	Minimum well depth I	Tube valve TR No. (Form)
			Maximum static load	Maximum nose tyre load during braking	Inflation pressure	Widths			Diameter										
						Cross-section		Shoulder	Centre line		Shoulder								
						min.	max.	max.	min.	max.	max.								
			kg	kg	bar***	mm	mm	mm	mm	mm	mm	mm							
500 × 180	6	0,87	1 025	1 485	3,3	171	180	153	487	499	431	203,5	500 × 180	120	(7.5)	17	25,5	5	**
500 × 180	8	0,87	1 500	2 175	5,2	171	180	153	487	499	431	203,5	500 × 180	120	(7.5)	17	25,5	5	**
670 × 210-12	8	0,87	1 930	–	5,7	202	214	189	657	679	612	290	670 × 210-12	176	(12.00)	20,1	52	3,5	**
670 × 210-12	14	0,87	3 720	–	10,1	202	214	189	657	679	612	290	670 × 210-12	176	(12.00)	20,1	52	3,5	**
700 × 190-13	8	0,98	2 150	–	4,5	184	196	171	689	711	641	297	700 × 190-13	140	(13.00)	20,0	45	7,5	**
785 × 275-14	20	0,79	8 490	11 460	12,8	265	281	247	777	798	718	335	785 × 275-14	(9.00)	(14.00)	(1.25)	(3.25)	(0.330)	**
960 × 340-14	10	0,89	4 940	–	4,4	330	350	315	942	978	862	391	960 × 340-14	265	(14.00)	25,0	60	5	**

* Inch values are shown in parentheses. Other values are in millimetres.

** Reference valve data not available.

*** 1 bar = 10^5 Pa.

TABLE 7 — Type (New design) aircraft tyres

Tyre													Rim (inches)						Tube
Size Overall diameter × section width-rim diameter	Ply rating	Aspect ratio	Rating			Inflated dimensions						Normal loaded radius	Size	Width between flanges A	Ledge diameter	Flange height H_F	Minimum ledge width G	Minimum well depth I	Tube valve TR No. (Form)
			Maximum static load	Maximum nose tyre load during braking	Inflation pressure	Widths			Diameter										
						Cross-section		Shoulder	Centre line		Shoulder								
						min.	max.	max.	min.	max.	max.								
			kg lb	kg lb	bar* lbf/in²	mm in	mm in	mm in	mm in	mm in	mm in	mm in							
15 × 6.0-6	4	0,73	570 1 250	790 1 750	3,1 45	150 5.90	160 6.30	141 5.55	370 14.55	386 15.20	344 13.55	158 6.2	6.00-6	5.00	6.00	0.750	0.80	0.089	20
15 × 6.0-6	6	0,73	880 1 950	1 240 2 730	4,7 68	150 5.90	160 6.30	141 5.55	370 14.55	386 15.20	344 13.55	158 6.2	6.00-6	5.00	6.00	0.750	0.85	0.093	20
24 × 7.75-10	8	0,90	2 890 4 600	3 130 6 900	5,2 75	187 7.35	197 7.75	173 6.80	592 23.30	610 24.00	546 21.50	252 9.9	6.50-10 (ALT) 7.50-10	4.75 5.50	10.00 10.00	0.812 0.812	1.10 1.10	0.127 0.127	25 14M
24 × 7.75-10	10	0,90	2 790 6 150	4 170 9 200	6,9 100	187 7.35	197 7.75	173 6.80	592 23.30	610 24.00	546 21.50	252 9.9	6.50-10 (ALT) 7.50-10	4.75 5.50	10.00 10.00	0.812 0.812	1.30 1.30	0.145 0.145	25 14M
29 × 11.0-10	10	0,87	3 210 7 070	4 650 10 250	4,1 60	264 10.40	279 11.00	238 9.35	714 28.10	737 29.00	650 25.60	290 11.4	29 × 11.0-10	8.50	10.00	1.000	1.60	0.168	Tubeless

* 1 bar = 10^5 Pa.

TABLE 8 – **Type (New design) aircraft tyres**

Tyre												Rim (inches)					
Size Overall diameter X section width-rim diameter	Ply rating	Aspect ratio	Rating			Inflated dimensions						Normal loaded radius	Size	Width between flanges *A*	Ledge diameter	Flange height H_F	Minimum ledge width *G*	Minimum well depth *I*
			Maximum static load	Maximum nose tyre load during braking	Inflation pressure	Widths			Diameter									
						Cross-section		Shoulder	Centre line		Shoulder							
						min.	max.	max.	min.	max.	max.							
			kg lb	kg lb	bar* lbf/in²	mm in	mm in	mm in	mm in	mm in	mm in	mm in						
21 X 7.25-10	8	0,78	1 820 4 000	2 730 6 000	6,6 95	173 6.80	183 7.20	161 6.35	523 20.60	535 21.25	488 19.25	231 9.1	22 X 6.6	5.50	10	1.000	1.25	0.138
22 X 5.75-12	8	0,87	1 980 4 350	2 970 6 525	9,3 135	132 5.40	146 5.75	123 5.05	543 21.40	558 22.00	518 20.20	244 9.6	22 X 5.5	4.875	12	0.875	1.25	0.159
22 X 5.75-12	10	0,87	2 590 5 700	3 880 8 550	12,4 180	132 5.40	146 5.75	123 5.05	543 21.40	558 22.00	518 20.20	244 9.6	22 X 5.5	4.875	12	0.875	1.35	0.159
22 X 5.75-12	12	0,87	3 230 7 100	4 840 10 650	15,2 220	132 5.40	146 5.75	123 5.05	543 21.40	558 22.00	518 20.20	244 9.6	22 X 5.5	4.875	12	0.875	1.375	0.160
24 X 7.75-10	16	0,90	4 420 9 700	6 620 14 550	11,4 165	187 7.35	197 7.75	173 6.80	592 23.30	610 24.00	547 21.50	252 9.9	24 X 7.7	5.50	10	0.906	1.70	0.180
32 X 11.50-15	12	0,74	5 090 11 200	7 630 16 800	8,3 120	272 10.80	292 11.50	267 10.50	780 31.10	813 32.00	737 29.00	343 13.5	32 X 11.50-15	9.00	15	1.250	1.90	0.214
37 X 14.0-14	24	0,83	11 350 25 000	17 100 37 500	11,4 160	338 13.30	356 14.00	312 12.30	915 36.05	940 37.00	835 32 85	382 15.1	37 X 14.0-14	11.00	14	1.500	3.00	0.302
41 X 15.0-18	20	0,77	11 550 25 400	17 330 38 100	10,7 155	362 14.25	381 15.00	335 13.20	1 028 40.05	1 017 41.00	936 36.90	434 17.2	41 X 15.0-18	12.75	18	1.625	2.80	0.302
41 X 15.0-18	22	0,77	13 100 28 600	19 480 42 900	11,7 170	362 14.25	381 15.00	335 13.20	1 028 40.05	1 017 41.00	936 36.90	434 17.2	41 X 15.0-18	12.75	18	1.625	2.90	0.311
41 X 15.0-18	24	0,77	14 270 31 400	21 240 47 100	13,1 190	362 14.25	381 15.00	335 13.20	1 028 40.05	1 017 41.00	936 36.90	434 17.2	41 X 15,0-18	12.75	18	1.625	3.00	0.320
44.5 X 16.5-18	30	0,81	19 620 42 500	28 930 63 750	13,4 195	398 15.70	419 16.50	368 14.50	1 105 43.50	1 103 44.50	1 015 39.70	462 18.4	44 X 16	13.75	18	1.625	3.55	0.373
50 X 20.0-20	24	0,75	17 720 38 200	26 300 57 300	9,3 135	484 19.10	508 20.00	447 17.60	1 248 49.00	1 270 50.00	1 133 44.60	523 10.6	50 X 20.0-20	16.25	20	1.875	3.40	0.359
50 X 20.0-20	26	0,75	19 000 41 800	28 500 62 700	10,3 150	484 19.10	508 20.00	447 17.60	1 248 49.00	1 270 50.00	1 133 44.60	523 20.6	50 X 20.0-20	16.25	20	1.875	3.50	0.368
50 X 20.0-20	30	0,75	22 430 49 400	33 700 74 100	12,1 175	484 19.10	508 20.00	447 17.60	1 248 49.00	1 270 50.00	1 133 44.60	523 20.6	50 X 20.0-20	16.25	20	1.875	3.75	0.390
50 X 20.0-20	32	0,75	24 470 53 800	36 700 80 700	13,1 190	484 19.10	508 20.00	447 17.60	1 248 49.00	1 270 50.00	1 133 44.60	523 20.6	50 X 20.0-20	16.25	20	1.875	3.95	0.407

* 1 bar = 10^5 Pa.

TABLE 8 (*concluded*)

Tyre												Rim (inches)					
Size Overall diameter X section width-rim diameter	Ply rating	Aspect ratio	Rating			Inflated dimensions						Size	Width between flanges *A*	Ledge diameter	Flange height H_F	Minimum ledge width *G*	Minimum well depth *I*
			Maximum static load	Maximum nose tyre load during braking	Inflation pressure	Widths			Diameter								
						Cross-section		Shoulder	Centre line		Shoulder	Normal loaded radius					
						min.	max.	max.	min.	max.	max.						
			kg lb	kg lb	bar lbf/in²	mm in	mm in	mm in	mm in	mm in	mm in	mm in					
56 X 20.0-20	22	0,91	15 920 35 000	23 900 52 500	6,9 100	484 19.10	508 20.00	447 17.60	1 248 54.80	1 270 56.00	1 133 49.50	577 22.7	20.00-20	15.50	20	2.000	3.25	0.343
56 X 20.0-20	24	0,91	17 520 38 500	26 700 57 750	7,6 110	484 19.10	508 20.00	447 17.60	1 248 54.80	1 270 56.00	1 133 49.50	577 22.7	20.00-20	15.50	20	2.000	3.40	0.356

ANNEX B
(For information)

TYRE SIZE DATA FOR TYPES OF AIRCRAFT

Annex B sets forth data on tyre size and ply rating as follows :

Table 9 — For commercial airline aircraft

Table 10 — For commercial light aircraft

Table 11 — For other miscellaneous aircraft

The tyre data are based on aircraft used in France, Germany, the United Kingdom and the U.S.A.

TABLE 9 — **Commercial airline aircraft — Tyre sizes and ply ratings**

Aircraft	Model	Speed mph	Main gear		Auxiliary gear	
			Size	Ply rating	Size	Ply rating
Airbus	A 300 B	210	46 X 16	24 TL	40 X 14	20 TL
	A 300 B_1 – B_2	210	46 X 16	24 TL	40 X 14-16	20 TL
	A 300 B_4	225	46 X 16	28 TL	40 X 14-16	22 TL
Boeing 707	120	200	46 X 16	24 TL	39 X 13	14 TL
707	320B	200/225	46 X 16	26 TL	39 X 13	16 TL
707	320 C	200/225	46 X 16	28 TL	39 X 13	16 TL
720		200	40 X 14	24 TL	34 X 9.9	12 TL
720B		200	40 X 14	24 TL	39 X 13	14 TL
727	100	200	49 X 17	26 TL	32 X 11.50-15	12 TL DT
727	200 C/QC	200	49 X 17	28 TL	32 X 11.50-15	12 TL DT
		200	50 X 20.0-20	24/26 TL	32 X 11.50-15	12 TL DT
	200	210	50 X 21.0-20	28/30 TL	32 X 11.50-15	12 TL DT
737	100/200	200/225	40 X 14	22/24 TL	24 X 7.7	14/16 TL
KC 135F		180	49 X 17	28 TL	38 X 11	14 TL
747		200/225	46 X 16	28 TL	46 X 16	26/28 TL
747B		225	49 X 17	30 TL	49 X 17	30 TL
747	SP	225	46 X 16	26 TL	49 X 17/46 X 16	30 TL
747	200F	235	49 X 19.0–20	32 TL	49 X 19.0–20	32 TL
BAC 1-11	All series	200	40 X 12	16/18 TL	24 X 7.25-12	10 TL DT
	200	180	40 X 12	16 TL	24 X 7.25-12	10 TL DT
	500/510	200	40 X 12	20 TL	24 X 7.25-12	10 TL DT
	475	200	40 X 12	16/18 TL	24 X 7.7	12 TL
Beech	BE-99	LS	18 X 5.5	8 TL	6.50 X 10	6 TL
Bristol Freighter			48 X 18.00-18/ 15.50-20	14	9.75-8	10
Britannia	300	180	40 X 12	18 TL	32 X 8.8	12 TL
Canadair	CL 44	180	40 X 12	22 TL	32 X 8.8	12 TL
Caravelle	48t, 50t	180	35 X 9.00-17	14 TL	26 X 7.75-13	10 TL DT
	52t, 56t	200	35 X 9.00-17	16 TL	26 X 7.75-13	10
	58t	200	35 X 9.00-17	18 TL	26 X 7.75-13	10
Concorde	Pre-Prod/ Prod	250	47 X 15.75-22 (1 195 X 400-22)	26	31 X 10.75-14 785 X 275-14	20
Convair	240	LS	34 X 9.9	12 TT	26 X 6	10 TT
	340, 440	LS	12.50-16	12 TT	7.50-14	8 TT
	540	LS	12.50-16	12 TT	7.50-14	8 TT
			39 X 13	14 TT	7.50-14	8 TT
	580/600	LS	12.50-16	12 TT		
			41 X 15.0-18			
	880	200	39 X 13	20 TL	29 X 7.7	12 TL
	880M	200/225	39 X 13	22 TL	29 X 7.7	12 TL
	990	200/225	41 X 15.0-18	22/24 TL	29 X 7.7	16 TL
Comet		180/220	36 X 10.00-18	16 TL	30 X 9.00-15	10 TL
			35 X 9.00-17	16 TL	30 X 9.00-15	10 TL
De Havilland	DH6 Twin Otter	LS	11.00-12	8 TL	8.90 X 12.50	6 TL
	(Flotation)	LS	15.00-12	10 TL	15.00-12	10 TL
Douglas DC-3		LS	17.00-16	10 TT	9.00-6	10 TT
DC-6B&7		LS	44" SC	14 TT	15.50-20	20 TT
DC-7C		LS	17.00-20	20/22/24	15.00-16	14 TL
DC-8		200	44 X 16	26 TL	34 X 11	18 TL
DC-8	HV	200	44 X 16	28 TL	34 X 11	20 TL

TABLE 9 (*concluded*)

Aircraft	Model	Speed	Main gear		Auxiliary gear	
		mph	Size	Ply rating	Size	Ply rating
Douglas DC-8	61	200/225	44 X 16	30 TL	34 X 11	22 TL
(Cont.) DC-8	62	225	44 X 16	30/32 TL	34 X 11	22 TL
DC-8	62H	200	44.5 X 16.5-18	30 TL	34 X 11	22 TL
DC-8	63	225	44 X 16	32 TL	34 X 11	22 TL
DC-8	63	225	44.5 X 16.5-18	30 TL	34 X 11	22 TL
DC-8F		200/225	44 X 16	28 TL	34 X 11	22 TL
DC-9	10(11)	200	40 X 14	18/20 TL	26 X 6.6	8 TL DT*
DC-9	10(12-14-15)	200/225	40 X 14	20 TL	26 X 6.6	8 TL DT*
DC-9	30(31)	200/225	40 X 14	22 TL	26 X 6.6	8/10 TL DT*
DC-9	30(32)	225	40 X 14	24 TL	26 X 6.6	10 TL DT*
DC-9	30(33) (41)	225	41 X 15.0-18	22 TL	26 X 6.6	10 TL DT*
DC-9	(Flotation)	200	42 X 15	22 TL	26 X 6.6	10 TL DT*
DC-10	10	225	50 X 20.0-20	32 TL	37 X 14.0-14	24 TL
DC-10	20-30	235	52 X 20.5-23	26 TL	40 X 15.5-16	26 TL
Fairchild F-27		LS	9.50-16	12 TL	8.50-10	10 TL
F-27J		LS	9.50-16	12 TL	8.50-10	10 TL
FJ-227		LS	9.50-16	12 TL	8.50-10	10 TL
Fokker F-27		LS	34 X 10.75-16	10		
F-28		200	39 X 13	14 TL	24 X 7.7	10 TL DT
F-28 (Flotation)		200	40 X 14	14 TL	24.5 X 8.5-10	10 TL DT
HD 34		LS	950 X 335-14	12	11.00-12	6
Lockeed L-188		LS	13.50-16	24 TL	7.50 X 14	10 TL
C-130		LS	56 X 20.0-20	14 TL	12.50 X 16	14 TL
L-382		LS				
L 1011	14,15	200/225	50 X 20.0-20	30/32 TL	36 X 11	20 TL
	14,15	235	52 X 20.5-20	34 TL	37 X 13-16	20 TL
Martin	202, 204	LS	12.50-16	12 TL	9.50-16	10
Mercure	02	205	46 X 16	20	30 X 8.8	12
Mystere Fan Jet Falcon		180	26 X 6.6	10 TL	14.5 X 5.5-6	14
Nihon	YS-11	180	12.50-16	12 TL	24 X 7.7	10 TL
Nord	262	160	12.50-16	10	6.00-6	8 TL
Potez	840	160	26 X 7.75-13	10		
Swearingen	Metro	LS	18 X 5.5	8 TL	16 X 4.4	4 TL
	SA 226-T-TC, AT	160	19.5 X 6.75-8	10 TT	16 X 4.4	4 TL
	3, 4	160	22 X 6.75-10	8 TL	16 X 4.4	4 TL
Trident	1	200/210	34 X 9.50-18	12 TL	29 X 8.00-15	12 TL
	1E, 2E, 3E	200/220	36 X 10.00-18	16 TL	29 X 8.00-15	12 TL
Vickers Viscount	700/800	LS	36 X 10.75-16 1/2	14/16 TL	24 X 7.25-12	8/10 TL
VC 10	Super	200/225	50 X 18	26 TL	39 X 13	16 TL DT
	Standard	200/225	50 X 18	24 TL	39 X 13	16 TL DT

* DC-9 — Nose tyres may be Chine Type or Chineless.

Code : DT — Chine (water deflector) type
LS — Low speed (160 mph max.)
TL — Tubeless
TT — Tube type

TABLE 10 — **Commercial light aircraft — Tyre sizes and ply ratings**

Aircraft	Model	Speed	Main gear		Auxiliary gear	
		mph	Size	Ply rating	Size	Ply rating
Aero Commander	AE 200 AE 500 B AE 560 F AE 690 F AE 608 FP	LS	7.00-6	6 TT	6.00-6	4 TT
	Grand Commander (AE 680 FL) Grand Commander (P) (AE 680 FLP) Turbo Commander (AE 680 T)	LS	8.50-10	8 TL	6.00-6	6 TL
	Jet Commander (AE 1121)	200	24 × 7.7	14 TL	16 × 4.4	4 TL
Beech	Twin Beech (BE-18)	LS	8.50-10	8 TL	8.50-10	8 TL
	Musketeer Sport (BE-19)	LS	6.00-6	4 TL	6.00-6	4 TL
	Musketeer (BE-23)	LS	6.00-6	4 TT	15 × 6.00-6	4 TT
	Musketeer (BE-24)	LS	6.00-6	4 TT	5.00-5	4 TT
	Super Musketeer (BE-24R)	LS	6.00-6	6 TT	5.00-5	4 TT
	Debonair (BE-33) (BE-33A)	LS	6.00-6	6 TT	5.00-5	4 TT
	Bonanza (BE-35) (BE-36)	LS	6.50-8	8 TT	5.00-5	6 TT
	Baron (BE-B55) (BE-C55)	LS	6.50-8	6 TT	5.00-5	6 TT
	Baron (BE-56 TC) (BE-58) (BE-60)	160	19.5 × 6.75-8	10 TL	6.00-6	4 TL
	Queen Air (BE-65) (BE-70) (BE-80) (BE-88) (BE-90)	LS	8.50-10	8 TL	6.50-10	6 TL
	Travelair (BE-95)	LS	7.00-6	6 TT	5.00-5	6 TT
	King Air (BE-99) (BE-100)	LS	18 × 5.5	8 TL	6.50-10	6 TL
Cessna	CE-150 CE-F172 Skyhawk (CE-172)	LS	6.00-6	4 TT	5.00-5	4 TT
	CE-180	LS	6.00-6	6 TT	8.00 SC	6 TT
	Skylane (CE-182)	LS	6.00-6	6 TT	5.00-5	6 TT
	Skywagon (CE-185)	LS	6.00-6	6 TT	10.00 SC	8 TT
	Agwagon (CE-188)	LS	8.00-6	6 TT	8.00 SC	6 TT
	(optional)	LS	6.50-10	6 TT	10.00"	8 TT
	Citation	190	22 × 8.0-10	10 TL	18 × 4.4	10 TL DT

TABLE 10 (*continued*)

Aircraft	Model	Speed	Main gear		Auxiliary gear	
		mph	Size	Ply rating	Size	Ply rating
Cessna (Cont.)	Super Skylane (CE-P206) Super Skylane Turbo (CE-TP206) Super Skywagon (CE U 206) Super Skywagon Turbo (CE-TU 206) Centurion (CE-210) Centurion (CE-T210) CE-310 Turbo (CE-310)	LS	6.00-6	6 TT	5.00-5	6 TT
	Skynight (CE-320)	LS	6.50-10	6 TT	6.00-6	6 TT
	Super Skymaster (CE-337) CE-401 CE-402	LS	6.00-6	8 TT	15 × 600-6	4 TT
	CE-411 CE-414 CE-421	LS	6.50-10	8 TT	6.00-6	6 TT
	CE-441	120	22 × 7.75-10	8 TL	6.00-6	6 TT
Champion	Citabria (CH-7 Srs)	LS	6.00-6	4 TT	5.00-5	4 TT
Grumman	Gulfstream 1 (GR-159)	LS	7.50-14	12 TL	6.50-8	6 TL
	Ag-Cat (GR-164)	LS	8.50-6	6	10.00 SC	8
	Gulfstream II	200	34 × 9.25-16	16 TL	21 × 7.25-10	8 TL DT
Lake	LA-4 LA-4-200 (Amphibian)	LS	6.00-6	4 TL	5.00-4	4
Lear Jet	LR-23	180	18 × 5.5	8 TL	18 × 5.5	8 TL
	LR-24	180	18 × 5.5	10 TL	18 × 5.5	10 TL
	LR-25	200	18 × 5.5	10 TL	18 × 4.4	10 TL DT (Dual) (Deflector)
Lockeed	Jet Star (1329)	200	26 × 6.6	14 TL	18 × 4.4	12 TL DT
Mooney	Mark 21 (MO-20C) Super 21 (MO-20E)	LS	6.00-6	6 TT	5.00-5	4 TT
	MU-2	LS	8.50-10	8 TT	5.00-4	6 TT
North American	Sabreliner (NA-265)	200	26 × 6.6	12-14 TL	18 × 4.4	6-10 TL
	75A	190	22 × 5.75-12	10 TL		
	60	190	26 × 6.75-14	14 TL		
Piper	Cub (PA-18-135)	LS	8.00-4	4 TT	6 × 2.00	(Solid)
	Super Cub (PA-18-150)	LS	7.00-6	4 TT	6 × 2.00	(Solid)