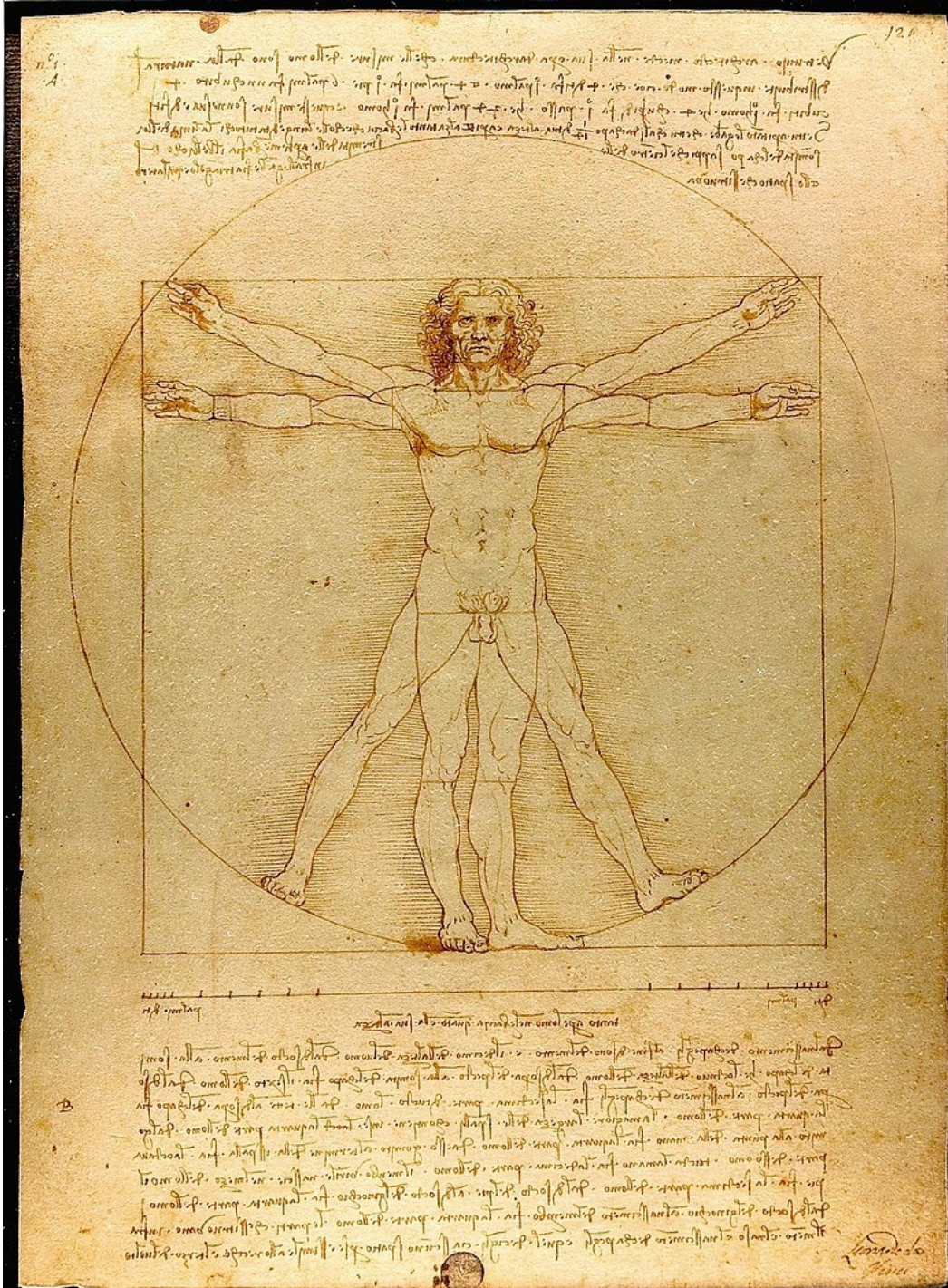


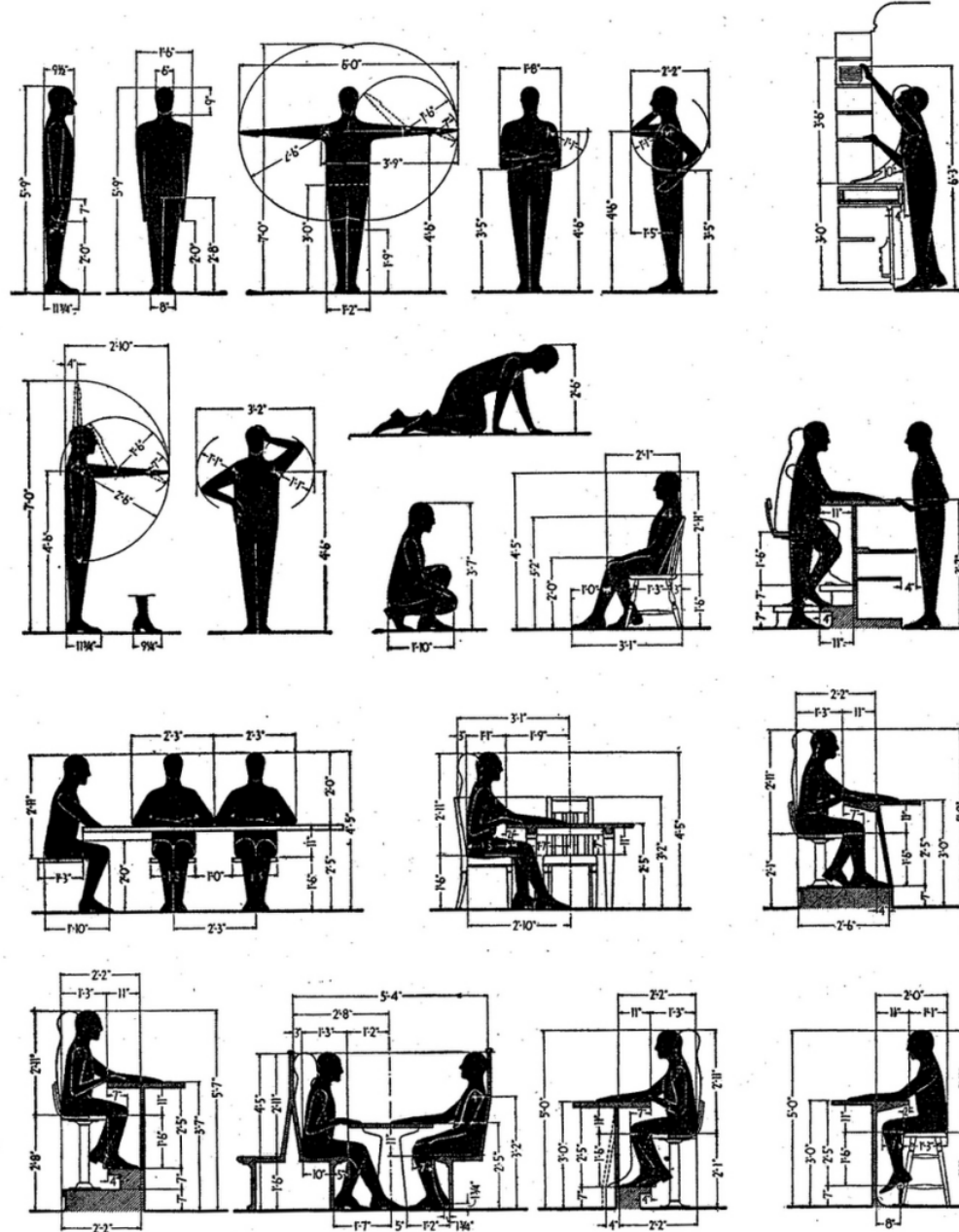
# ERGONOMICS

**the body – defining dimensions for specific activities**

## Vitruvian Man

Italian: *L'uomo vitruviano*



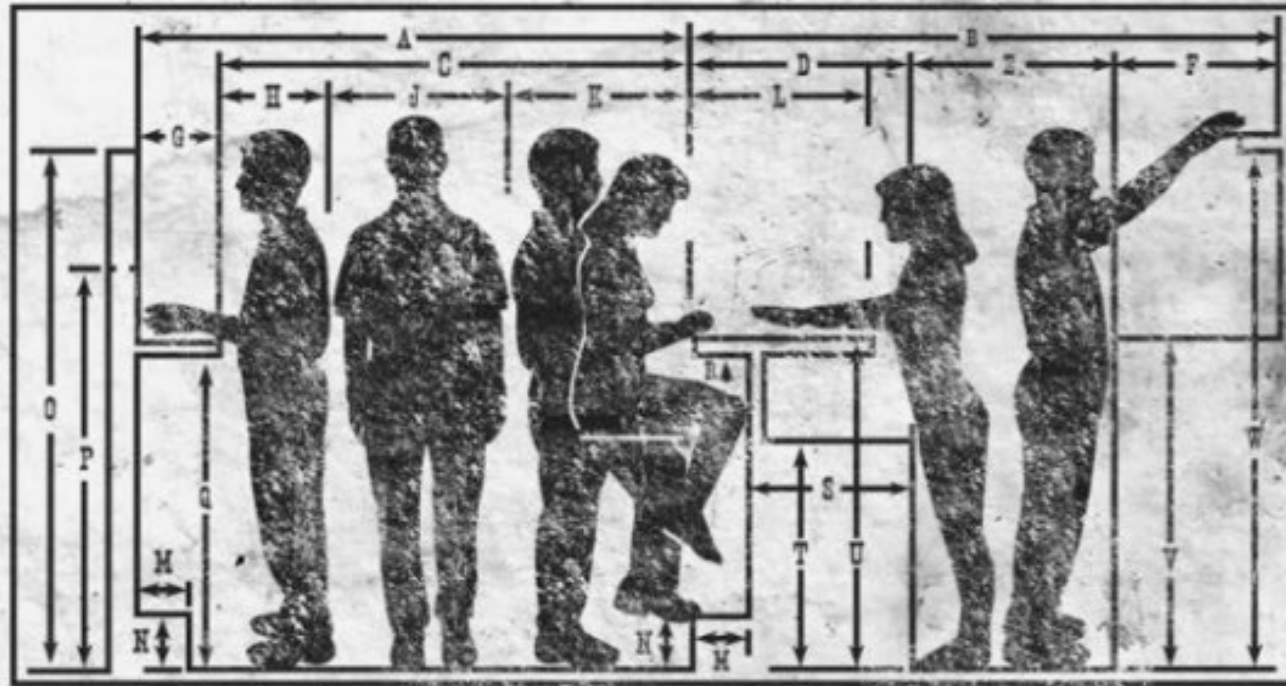


Scale of Human Figure 1/4" = 1'-0"

These dimensions are based on the average or normal adult. As clearances are minimum they should be increased when conditions will allow.

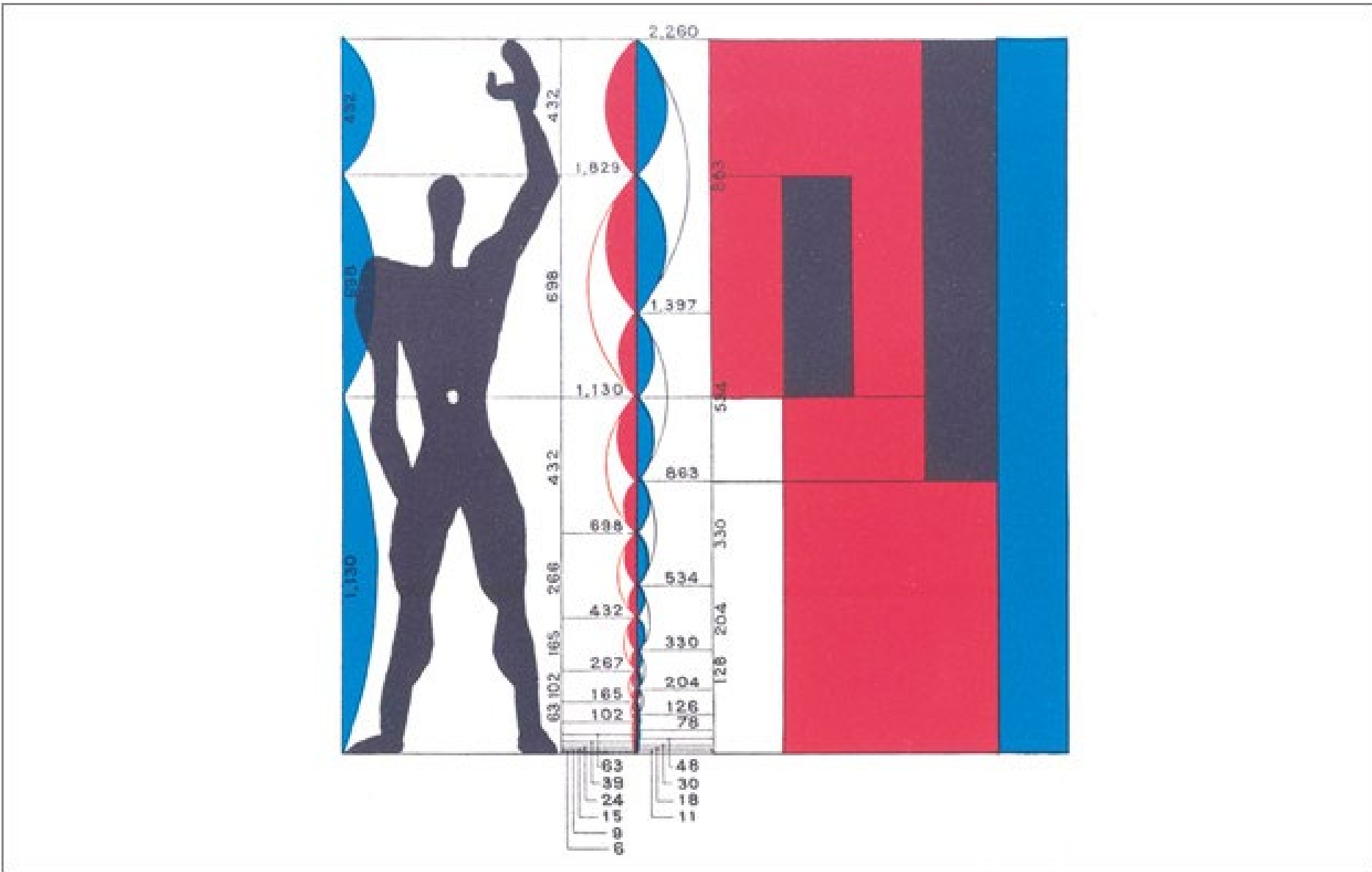
Table, desk, and other sitting work-top heights are shown 2'-5"; however some authorities prefer 2'-6" or 2'-6 1/2". See sheets titled "Children's Furniture," for their size and furniture.

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Drawings by Ernest Irving Freese

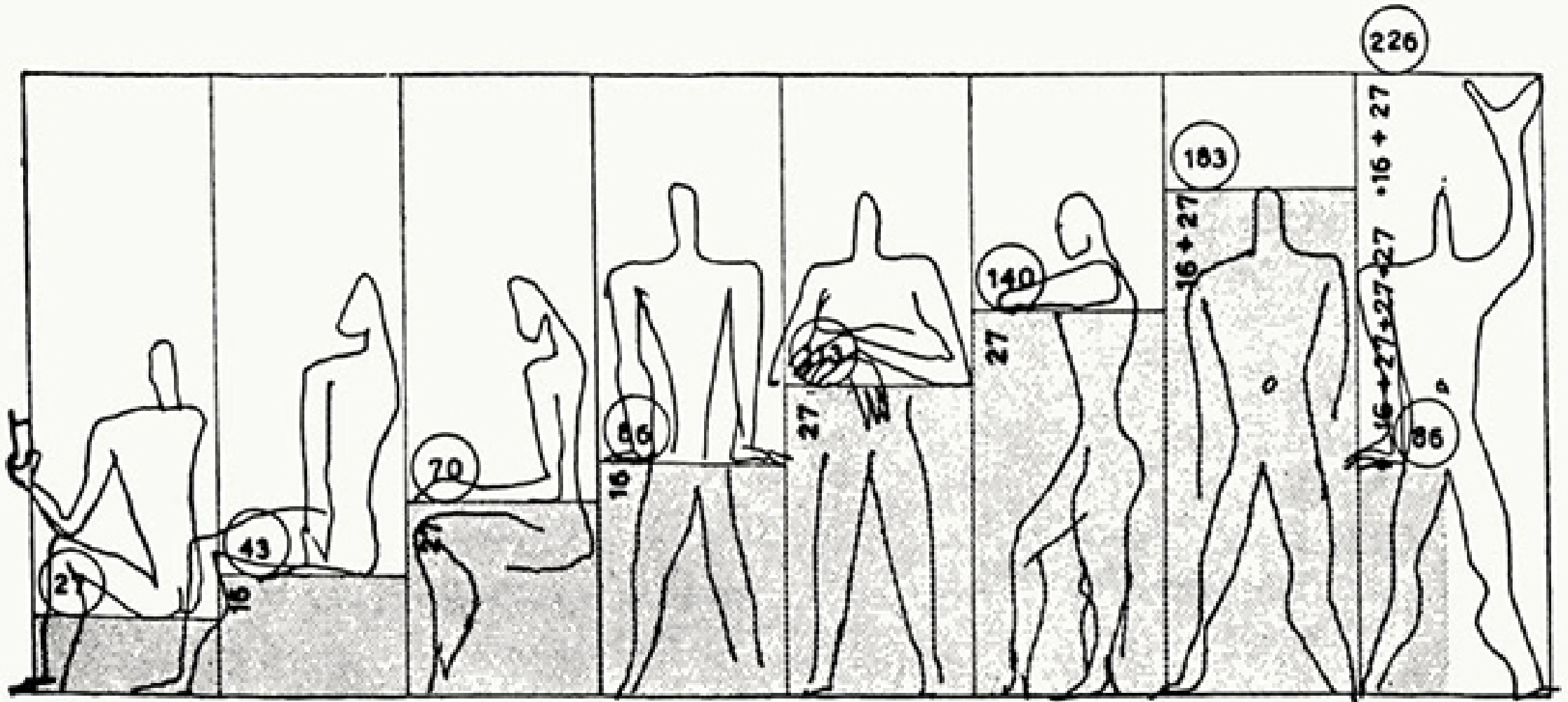


### Bar Dimensions

A. Outer bar edge to wall	.....	.76" - 84"
B. Outer bar edge back wall	.....	.82" - 104"
C. Outer bar edge to drinking shelf	.....	.66" - 72"
D. Outer bar edge to equipment edge	.....	.23" - 28"
E. Behind bar traffic area	.....	.30" - 36"
F. Back bar depth	.....	.24" - 30"
G. Drinking shelf depth	.....	.10" - 12"
H. Drinking shelf customer area	.....	.18"
J. Customer traffic area	.....	.30"
K. Bar seating area	.....	.18" - 24"
L. Bar depth	.....	.18" - 24"
M. Footstep depth	.....	.6" - 9"
N. Footstep height	.....	.7" - 9"
O. Room divider screen (high)	.....	.76"
P. Roomdividerscreen (low)	.....	.55"
Q. Drinking shelf height	.....	.42" - 45"
R. Top of barstool to bottom of bar	.....	.11" - 12"
S. Depth of behind-bar equipment	.....	.22" - 26"
T. Behind-bar equipment height	.....	.30"
U. Bar height	.....	.42" - 45"
V. Back bar height	.....	.36" - 42"
W. Back wall shelf height	.....	.60" - 69"

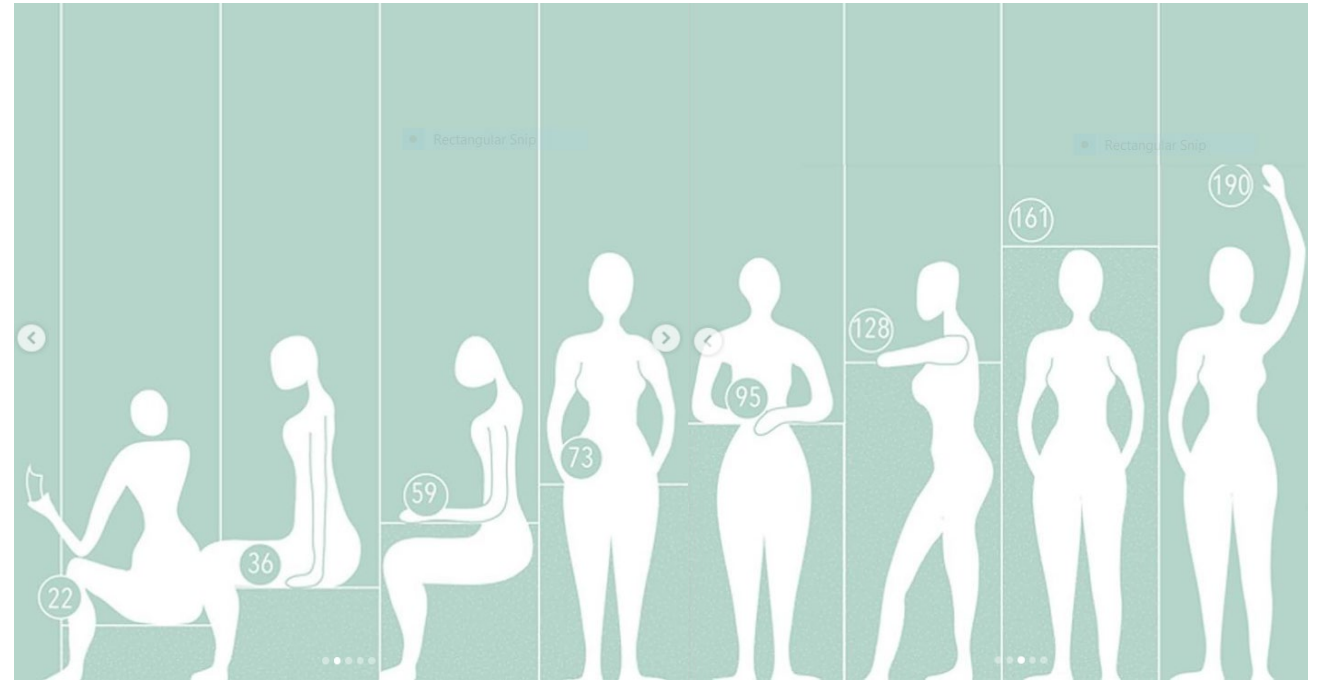
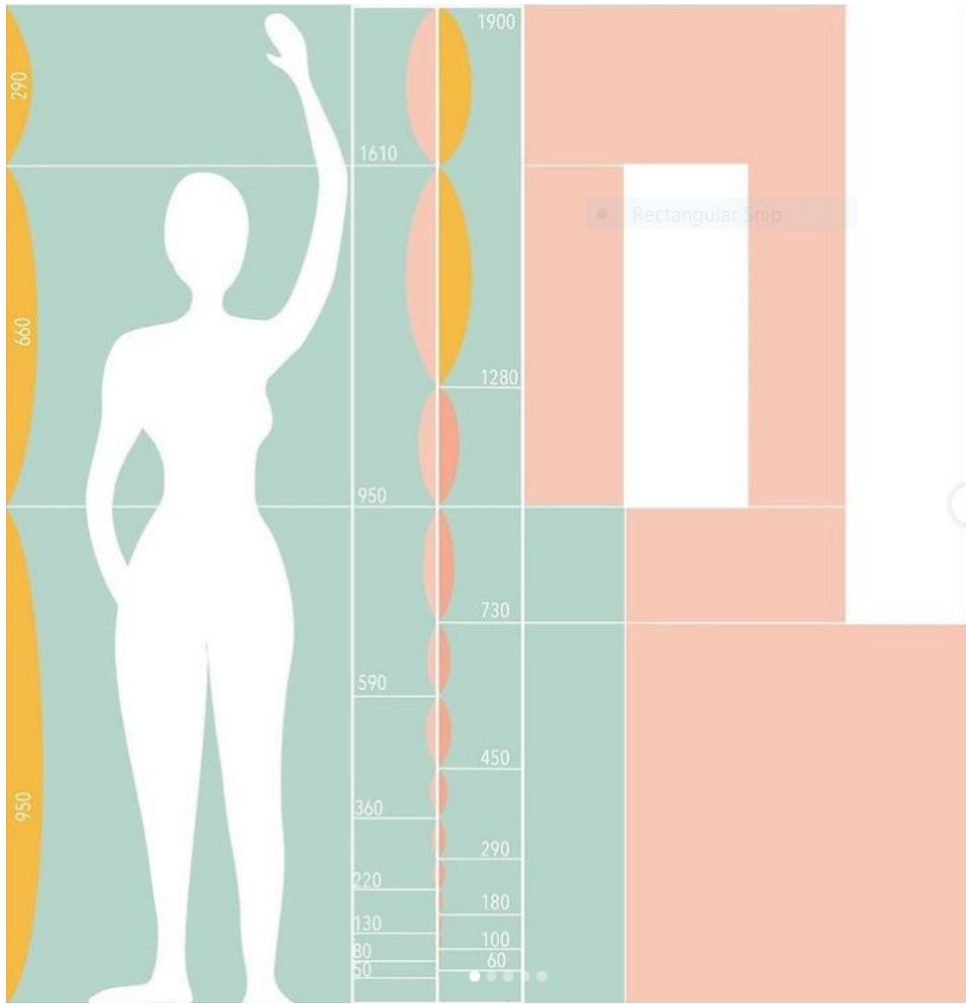


In [Le Corbusier's buildings](#) and art a recurrent silhouette appears: the Modulor Man. It's a stylised human figure, standing proudly and square-shouldered, sometimes with one arm raised, the mascot of Le Corbusier's system for re-ordering the universe. The Modulor was meant as a universal system of proportions. The ambition was vast: it was devised to reconcile maths, the human form, architecture and beauty into a single system.



This Modulor Man is segmented according the "golden section", a ratio of approximately 1.61; so the ratio of the total height of the figure to the height to the figure's navel is 1.61. These proportions can be scaled up or down to infinity using a Fibonacci progression. In devising this system, Corbusier was joining a 2000-year-old hunt for the mathematical architecture of the universe, a search that had obsessed Pythagoras, Vitruvius and Leonardo Da Vinci.

<https://www.iconeye.com/opinion/icon-of-the-month/item/3815-modulor-man-by-le-corbusier>



[parlour](#)

The Modular Woman: Our lecturer instructed us to consult Ernst Neufert’s “Architect’s Data” as a guide when developing internal configurations. Neufert’s guide is based on le corbusier’s modular man and the golden ratio. Men are offered as the image of perfection, suggesting the imperfection of women. Not only can design favour men, but it can also radically change form when men aren’t presented as the norm. These images present a human standard that is gender (and race) specific. Even used as a ~guide~ or starting point, this only serves to further the narrative of men as the standard, with women as the afterthought, a subcategory of human.

[Parlour on Instagram: “The Modular Woman: Our lecturer instructed us to consult Ernst Neufert’s “Architect’s Data” as a guide when developing internal...”](#)



**Antony Gormley** (London, b. 1950), *Lost Horizon* installation, [White Cube](#), Mason's Yard, March-April 2008

<https://suzannelovellinc.com/blog/gormleys-exploration-body-space/>



NUMBERS ARE 3.5MM HIGH (.35 PEN)

SLASH LINES ARE APPROX.  
5MM LONG (.5 PEN)

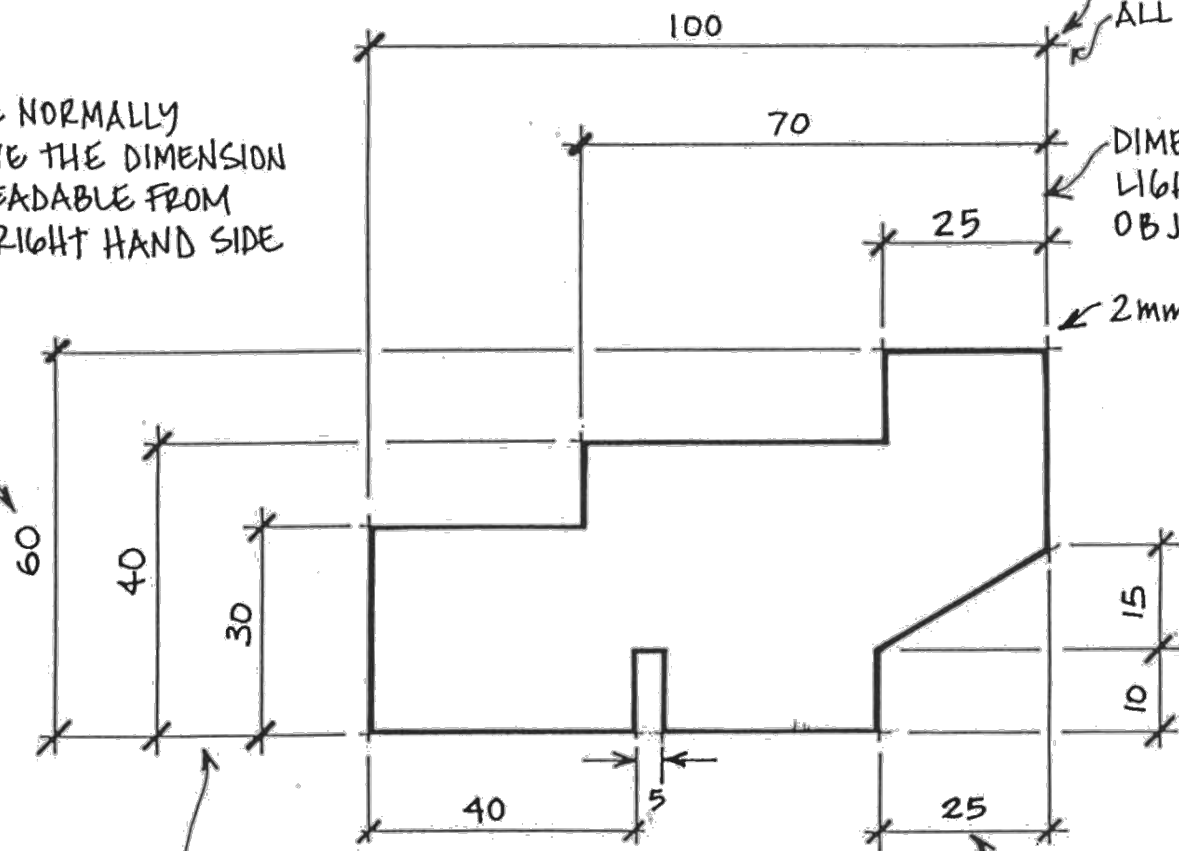
ALL LINES CROSS BY 2MM or 3MM

NUMBERS ARE NORMALLY  
PLACED ABOVE THE DIMENSION  
LINE AND READABLE FROM  
BOTTOM OR RIGHT HAND SIDE  
OF PAGE

DIMENSION + PROJECTION LINES  
LIGHTER THAN FINISHED  
OBJECT LINES (.25 PEN)

2mm GAP

LEADER  
LINE



SPACING BETWEEN  
DIMENSION LINES SHOULD  
BE EQUAL + APPROX 12MM  
APART

DIMENSION LINE IS DRAWN  
PARALLEL TO DIRECTION  
OF MEASUREMENT AND  
PLACED OUTSIDE THE  
VIEW WHERE POSSIBLE

EDITED BY DAVID ADLER

PDF



# METRIC HANDBOOK PLANNING AND DESIGN DATA

SECOND EDITION

