Constants	Units	Description
MfuseD	[—]	Fuselage drag reference Mach number
Nland	[_]	Emergency landing load factor
N_{lift}	[_]	Wing maximum load factor
P_{cabin}	$\frac{N}{m^2}$	Cabin air pressure
R	$\frac{m^2}{J}$	Air specific heat
SPR	кgк [_]	Number of seats per row
T_{cabin}	[K]	Cabin air temperature
$W''_{\prime\prime}$	<u>N</u>	Floor weight/area density
$W''_{I'}$	$\frac{m^2}{N}$	Weight/area density of insulation material
W' insul	$\overset{m^2}{N}$	Weight per seat
W' . ,	N	Weight/length density of windows
Wana maaa	lbf	Average passenger weight including payload
$W_{avg, pass_{total}}$	lbf	Average passenger weight
W_{aanaa}	lbf	Cargo weight
Wearryon	lbf	Ave. carry-on weight
Wchecked	lbf	Ave. checked bag weight
W_{fir}	lbf	Fixed weights (pilots, cockpit seats, navcom)
ΔP_{over}	psi	Cabin overpressure
ΔR_{fuse}	m	Fuselage extension height
λ_{cone}	[-]	Tailcone radius taper ratio
ρ_{hend}	kg	Stringer density
ρ _{carao}	$\frac{\text{kg}}{\text{kg}}$	Cargo density
Peargo	$\frac{m^3}{kg}$	Cone material density
<i>Pcone</i>	$\frac{m^3}{kg}$	Floor material density
Pjioor	$\frac{m^3}{kg}$	Luggage density
ρ_{lugg}	${ m m^3} m kg$	Skin density
$ ho_{skin}$	$\frac{\overline{m^3}}{N}$	Bonding motorial strong
σ_{bend}	$\frac{\overline{m^2}}{N}$	Max allowable floor stross
σ_{floor}	$\frac{\overline{m^2}}{N}$	Max allowable floor stress
σ_{skin}	$\frac{\overline{m^2}}{N}$	Max allowable skill stress
I floor f	$\overline{\mathbf{m}^2}$	A DU weight as fraction of payload weight
Japu f.	[-]	Fractional added weight of least reinforcements
J fadd f.	[_]	Fractional frame weight
J frame f.	[_]	Proportion of passengers with one suitcase
f_{1}	L] [_]	Proportion of passengers with two suitcase
Jiugg,2 fmadd	[_]	Other misc weight as fraction of pavload weight
J paaa f	[_]	Fractional seat weight
J seat f _{atmin} a	[_]	Fractional stringer weight
j string A	<u>m</u>	Acceleration due to gravity
9 h.s.	m^{s^2}	Floor beam height
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l_{nose}	m	Nose length
n_{pass}	[-]	Number of passengers
p_s	cm	Seat pitch
p_{λ_v}	[-]	$1 + 2^*$ Tail taper ratio
r_E	[—]	Ratio of stringer/skin moduli
r_{M_h}	[-]	Horizontal inertial relief factor
r_{M_v}	[—]	Vertical inertial relief factor
$r_{w/c}$	[-]	Wingbox width-to-chord ratio
w_{aisle}	m	Aisle width
w_{seat}	m	Seat width
w_{sys}	\mathbf{m}	Width between cabin and skin for systems