

**Table 15.2 Approximate empty weight buildup**

Item	Fighters		Transports and bombers		General aviation		Multiplier	Approximate location
	lb/ft <sup>2</sup>	{kg/m <sup>2</sup> }	lb/ft <sup>2</sup>	{kg/m <sup>2</sup> }	lb/ft <sup>2</sup>	{kg/m <sup>2</sup> }		
Wing	9.0	{44}	10.0	{49}	2.5	{12}	$S_{\text{exposed planform}}$	40% MAC
Horizontal tail	4.0	{20}	5.5	{27}	2.0	{10}	$S_{\text{exposed planform}}$	40% MAC
Vertical tail	5.3	{26}	5.5	{27}	2.0	{10}	$S_{\text{exposed planform}}$	40% MAC
Fuselage	4.8	{23}	5.0	{24}	1.4	{7}	$S_{\text{wetted area}}$	40–50% length
Landing gear <sup>a</sup>	0.033	—	0.043	—	0.057	—	TOGW	—
	Navy: 0.045	—						
Installed engine	1.3	—	1.3	—	1.4	—	Engine weight	—
“All-else empty”	0.17	—	0.17	—	0.10	—	TOGW	40–50% length

<sup>a</sup>15% to nose gear; 85% to main gear.