

<b>Demand factor calculations for different loads using Egyptian Standard</b>				
<b>Load Type</b>	<b>Multi story buildings</b>	<b>Private residential apartments or similar</b>	<b>Small hotels or public</b>	<b>Offices, shops and public buildings except for workshops and factories</b>
Illumination	50% total load	66% total load	75% total load	90% total load
Sockets	100% for highest load in circuit + 40% for total load for the rest of the circuits	100% for highest load in circuit + 40% for total load for the rest of the circuits	100% for highest load in circuit + 40% for total load for the rest of the circuits+ 75%	100% for highest load in circuit + 40% for total load for the rest of the circuits
Fixed appliances except for motors , heaters and cooking	100% of rated load of largest equipment + 50% for rated load for the 1 <sup>st</sup> equipment following the largest one + 33% for the 2 <sup>nd</sup> equipment following the largest load + 20% of total connected load of other equipment	100% of all loads rated up to 10 amperes + 50% of all loads rated more than 10 amperes	100% of rated load of largest equipment + 80% for rated load for the 1 <sup>st</sup> equipment following the largest one + 60% of total connected load of other equipment	100% of rated load of largest equipment + 75% of total connected load of other equipment
Fixed cooking equipment	100% of rated load of largest equipment + 50% for rated load for the 1 <sup>st</sup> equipment following the largest one + 33% for the 2 <sup>nd</sup> equipment following the largest load + 20% of total connected load of other equipment	100% of all loads rated up to 10 amperes + 30% of all loads rated more than 10 amperes + 5 amperes if device requires an extra outlet	100% of rated load of largest equipment + 80% for rated load for the 1 <sup>st</sup> equipment following the largest one + 60% of total connected load of other equipment	100% of rated load of largest equipment + 80% for rated load for the 1 <sup>st</sup> equipment following the largest one + 60% of total connected load of other equipment
Motors except for motors used in elevators which requires special needs	100% of rated load of largest equipment + 50% of total connected load of other equipment	100% of rated load of largest equipment + 50% of total connected load of other equipment	100% of rated load of largest equipment + 50% of total connected load of other equipment	100% of rated load of largest equipment + 80% for rated load for the 1 <sup>st</sup> equipment following the largest one + 60% of total connected load of other equipment
Electric heaters (non-continuous operation)	100% of rated load of largest equipment + 100% for rated load for the 1 <sup>st</sup> equipment following the largest one + 25% of total connected load of other equipment			Determined by designers depending on operation conditions
Electric heaters (continuous operation)	100% of total connected load in all cases			