



Construction Specification & details of Rapidcabin “full frame ,multi point lift” Portacabin & containercabins.

	Description	Full steel frame portacabin	Container cabin
	Shell, Angle Frame	Angle frame shall be made of 100mm/80mm (5mm thick) angle iron or 80mm (3mm thick) square pipe .The shell shall be fabricated from tested quality steel duly welded, comprising of base frame, peripheral structure, self draining roof, one entry door and 03 nos. of windows. The eight corners shall be sufficiently strengthened to facilitate transportation, lifting and placing. Steel sheet gauge 16 ie 1.6mm is used in corrugated form or plain form. For full frame portacabin extra 50mm square pipe/angle iron are used at 1200mm intervals.	(Pls note that for container cabins, framework , external wall panels and floor as exactly as a normal shipping container. External cladding can be done using 18 gauge steel)
	Base Frame:	The base frame shall be made of pressed mild steel channel section. The main structural element shall be of 125 mm x 75 mm/200mmx100mm “P” beam and cross members shall be of 'C' channels section size 100 mm x 50 mm or 50mm square pipe of 2mm thickness.	The base frame shall be made of pressed mild steel channel section as in shipping containers.
	Side and End Walls:	The side and end frame shall be made out of pressed sections of suitable profiles / Pillars of sufficient strength. Exterior wall shall be made up of 1.6mm MS specially corrugated sheet, whereas 18mm/12.5mm plywood/ board would be used for interior walls. These steel sheets shall be treated for corrosion resistance. Panels shall be vertically corrugated. Sheets shall be continuously welded to top side and base structure so as to offer better strength to weight ratio. All gaps will be sealed at edges and at seam, bottom etc to prevent ingress of moisture. Interior walls are painted in texcote gloss/emulsion.	The side and end frame shall be made out of pressed sections of suitable profiles / Pillars of sufficient strength. Exterior wall shall be made up of 1.6mm MS specially corrugated sheet, whereas 18mm/12.5mm plywood/ board would be used for interior walls. These steel sheets shall be treated for corrosion resistance. Panels shall be vertically corrugated. Sheets shall be continuously welded to top side and base structure so as to offer better strength to weight ratio. All gaps will be sealed at edges and at seam, bottom etc to prevent ingress of moisture. Walls are painted in texcote gloss/emulsion.
	Flooring	On the bottom frame 18 mm thick Marine plywood shall be fixed by means of self tapping screw. PVC Vinyl flooring shall be fixed on the plywood sheet.	On the bottom frame 18 mm thick Marine plywood shall be fixed by means of self tapping screw. PVC Vinyl flooring shall be fixed on the plywood sheet.

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	Systems:	Client can request the use of plain 3mm MS plate,ceramic tiles etc.	Client can request the use of plain 3mm MS plate,ceramic tiles etc.
	Roof:	Self draining type roof shall be made out of 1.6mm thick M.S. Sheet, adequate roof bows are to be provided. Roof shall be adequately cambered for draining of rainwater by the use of .45mm corrugated aluminum extra roof. Interior paneling shall be done in 18mm plywood with adequate insulation. Extra ceiling can also be done in suspended acoustic ceiling or PVC.	Self draining type roof shall be made out of 1.6mm thick M.S. Sheet, adequate roof bows are to be provided. Roof shall be adequately cambered for draining of rainwater by the use of .45mm corrugated aluminum extra roof. Interior paneling shall be done in 18mm plywood with adequate insulation. Extra ceiling can also be done in suspended ceiling or PVC.
	Paint:	Red oxide primer for & chlorinated Rubber for final 2 coats on the exterior	Red oxide primer for & chlorinated Rubber for final 2 coats.
	Insulation:	50 mm thick Glass wool Insulation, rigid/flexible foam , EPS panel shall be used for walls and roof. Where EPS is used , Interior paneling shall be done using 12.5mm plywood.	50 mm thick Glass wool Insulation, rigid foam , EPS panel shall be used for walls and roof. Where EPS is used , Interior paneling shall be done using 18mm plywood.
	Inner Paneling:	The interior shall be aesthetically finished so as to give custom built appearance with extremely high quality workmanship. All vertically and horizontal corners shall be neatly and smoothly finished with Aluminum/wooden sections. The paneling of side walls and roof shall be of 12 mm thick decorative laminated board or 18mm plywood. Walls can also be painted in texcote paint to create a real wall look alike. Other options include PVC, MDF etc	The interior shall be aesthetically finished so as to give custom built appearance with extremely high quality workmanship. All vertically and horizontal corners shall be neatly and smoothly finished with Aluminum sections. The Paneling of side walls and roof shall be of 12 mm thick decorative laminated board or 18mm plywood. Walls can also be painted in texcote paint to create a real wall look alike.
	Main Entry Door:	The size of the main door shall be of 7' height x 3'3/3.5 ' width made of steel. The door shall be of external opening type made out of the same material as wall panels with door closing unit. The construction of the door shall be double skin steel construction with 40 mm thick glass wool insulation or EPS panel. The peripheral edges of the door shall be sealed with double gaskets to make it waterproof & leak proof. The door interior shall be finished with same material matching with that of the bunk house interior. The door shall be provided with locking arrangement with separate handles on both sides. Also doors can be in aluminum profiles and glass. Client can request the use of multi key Chinese/Turkish steel doors.	The size of the main door shall be of 7' height x 3'3/3.5 ' width made of steel. The door shall be of external opening type made out of the same material as wall panels with door closing unit. The construction of the door shall be double skin steel construction with 40 mm thick glass wool insulation or EPS panel. The peripheral edges of the door shall be sealed with double gaskets to make it waterproof & leak proof. The door interior shall be finished with same material matching with that of the bunk house interior. The door shall be provided with locking arrangement with separate handles on both sides. Also doors can be in aluminum profiles and glass. Client can request the use of multi key Chinese/Turkish steel doors.
	Aluminum Windows:	Aluminum powder coated windows, sliding type shall be provided, made of Aluminum section, clear vision or tinted glasses are to be fitted to it. Min window size/no is 5% total floor area.	Aluminum powder coated windows, sliding type shall be provided, made of Aluminum section, clear vision or tinted glasses are to be fitted to it. Min window size/no is 5% total floor area.
	Electrical	The portacabin will be provided with electrical wiring suitable for 250 volt, 50 HZ single phase AC power	The portacabin will be provided with electrical wiring suitable for 250 volt, 50 HZ single phase AC power

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System:	<p>supply. All electrical wiring shall be concealed. Bulk head and 2 nos. of tube lights shall be provided . Suitable copper cables shall be used for lighting circuits. The copper cables used will be of 3/1.9 cable for lighting circuits. ISO mark and concealed in PVC conduits insulated copper wire shall be used for wiring to be done in PVC conduit with small size distribution board with MCB protection and to separate with main supply.a) 4 nos. of switch socket of 3/15 Amp & one no. of switch socket of 20 Amp with MCB (62 ampere TPN)</p> <p>b) 2 tube lights (one to one opposite side)</p> <p>c) two nos. of wall mounted fans(option) or AC</p> <p>d) Main incoming junction box/ metal clad plug socket.</p>	<p>supply. All electrical wiring shall be concealed. Bulk head and 2 nos. of tube lights shall be provided . Suitable copper cables shall be used for lighting circuits. The copper cables used will be of 3/1.9 cable for lighting circuits. ISI mark and concealed in PVC conduits insulated copper wire shall be used for wiring to be done in PVC conduit with small size distribution board with MCB protection and to separate with main supply.a) 4 nos. of switch socket of 5/15 Amp & one no. of switch socket of 20 Amp with MCB (62 ampere TPN)</p> <p>b) 2 tube lights (one to one opposite side)</p> <p>c) two nos. of wall mounted fans</p> <p>d) Main incoming junction box/ metal clad plug socket.</p>
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See list of possible electrical materials for complete package

Complete list electricals	
description	unit
wall bracket	2
2ft fluorescent	2
10 mm mains supply cable	1
water heater(direct/indirect	1
security light(asia /EEC	2
13 amp sockets,boxes	4
surfaces pipes accessories	1
switch,boxes	4
2.5 mm 3 core cable	
DB board	1
AC switch	2
industrial socket	1
1.5 mm 3 core cable	2
air expeller toilet	1
emergency light	1



Picture 1 - picture of RapidCabin full steel frame portcabin with multipoint lifting

Picture 2 - picture of bottom frame only for most competitors- can only be lifted from the bottom