

11 ALUMINIUM WORKS

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
11.01	Providing and fixing anodised aluminium work for doors, windows, ventilators and partitions with extruded built up standard sections/ other sections of approved make conforming to IS : 733 and IS : 1285 fixing with dash fasteners of required dia and size, including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/ neoprene gaskets etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, aluminium snap beading for glazing /panelling, CP brass /stainless steel screws all complete including fixing of glasses but excluding cost of glasses.		
	<i>(Basis :21.1 CPWD Analysis of Rates, 2012 Vol. II)</i>		
(a)	2 - track sliding windows/ventilators.	kg	897.70
(b)	3 - track sliding windows/ventilators.	kg	818.80
(b)	4 - track sliding windows/ventilators.	kg	802.50
11.02	Supplying of glass panes at site.		
	<i>(Basis :MPWD Analysis of Rates, 2007)</i>		
(a)	2mm thick plate sheet glass.	sqm	400.00
(b)	3mm thick plate sheet glass.	sqm	488.10
(c)	4mm thick plate sheet glass.	sqm	654.80
(d)	5mm thick plate sheet glass.	sqm	875.10
(e)	4mm thick frosted glass.	sqm	875.10
(f)	Blue tint "Triveni" glass.	sqm	250.00
(g)	Grey or bronze tint "Triveni" glass.	sqm	184.50
11.03	Providing and fixing anodised aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular and other sections of approved make conforming to IS: 733 and IS : 1285, anodised transparent or dyed to required shade according to IS : 1868. (Minimum anodic coating of grade AC 15), fixed with rawl plugs and screws or with fixing clips, or with expansion hold fastners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately) .		
	<i>(Basis :21.1 CPWD Analysis of Rates, 2012 Vol. II)</i>		
(a)	For fixed portion	kg	420.50

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
11.04	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately) .	kg	484.90
11.05	Providing and fixing 12mm thick prelaminated three layer medium density (exterior grade) particle board Grade I, Type II conforming to IS : 12823 bonded with phenol formaldehyde synthetic resin, of approved brand and manufacture in paneling fixed in aluminium doors, windows shutters and partition frames with C.P. brass/ stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.		
	(a) Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side.	sqm	1119.00
	(b) Prelaminated particle board with decorative lamination on both sides .	sqm	1027.60
11.06	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item) :		
	(a) With glass panes of 4.0 mm thickness (weight not less than 10.0 kg/ sqm)	sqm	1311.30
	(b) With glass panes of 5.50 mm thickness (weight not less than 13.75 kg/ sqm)	sqm	1575.30
11.07	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS : 6315 marked, Hardwyn make (model 3000) or equivalent for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge . <i>(Basis :21.4 CPWD Analysis of Rates, 2012 Vol. II)</i>		
	(a) With stainless steel cover plate	sqm	2569.20
	(b) With brass cover plate	sqm	2789.90
	Providing and fixing anodised aluminium work (with minimum 15 micron uniform anodic coating) consisting of tee/ angle sections, of approved make conforming to IS : 733 in frames of false ceiling including aluminium angle cleats with necessary C.P. brass/ stainless steel sunk screws, aluminium perimeter angles fixed to wall with rawl plugs @ 450 mm centre to centre and fixing the frame work to level adjusting hangers (6 mm dia. M.S. rods) with necessary cadmium plated machine screws all complete as per approved architectural drawings and direction of the Engineer-in-charge (level adjusting hangers, ceiling cleats and expansion hold fastners to be paid for separately).		
11.08		kg	552.60

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
11.09	Providing and fixing level adjusting hangers of 6 mm dia. M.S. rods (upto 1200mm length) fixed to roof slabs by means of M.S. angle ceiling cleats 40x40x5mm size 40mm long and expansion hold fastners 12.5 mm dia. 40mm long including applying priming coat of zinc chromate yellow primer for steel members complete.	No	85.00
11.10	Providing and fixing machine moulded anodised aluminium covering of approved pattern & design, made out of machine cut aluminium sheet and machine holed for receiving screws, over expansion joints on vertical surfaces/ceilings with full threaded, cadmium plated steel screws 4mm dia. stem, 30mm long and aluminium washers 2mm thick, 15mm dia. at a staggered pitch of 200mm centre to centre including drilling holes in the receiving surface and providing expandable plastic sleeves in holes etc. complete. (Anodising on the aluminium sheet and washers to be 15 micron thick) :	kg	710.80
	(b) Made out of 210 mm wide anodised aluminium sheet 2.5 mm thick .	kg	829.30