



US Regional Airport Cost Model Benchmarks: (USA Mid-West location): 2016 Cost Basis: Open Shop Construction:

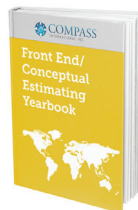
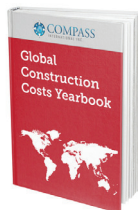
This cost model itemizes +/- 15% cost estimating data on the costs of constructing and or upgrading / revamping airport runways, taxiways and aircraft parking stands and ramps. The cost benchmark model also includes square foot / square meter unit costs for constructing new terminals and departure gates and costs associated with , escalators, baggage carousels, aircraft fueling systems & waste disposal systems. The cost model is based on a (6) gate(s) 650,000 to 850,000 passengers per year terminal operating in the order of 15 to 25 departures per day.

#	Description	U of M	\$ Low	\$ High	Remarks
1	New commercial main runway 7,000 Lineal Foot (LF) to 10,000 Lineal Foot (LF), 10" deep on 4" deep asphalt / tarmac and 6" deep of reinforced concrete.	LF	2,100	2,600	Construction costs include 12" to 18" of excavation, imported engineered fill, 95% compaction of fill and necessary grading, lighting, signs and marking, complete with associated drainage systems. (To determine a meter value multiply \$ value by 3.28).
2	New secondary runway 3,500 Lineal Foot (LF) to 7,000 Lineal Foot (LF), 8" deep on 2" deep asphalt / tarmac and 6" deep of reinforced concrete.	LF	1,550	2,050	Construction costs include 12" to 18" of excavation, imported engineered fill, 95% compaction of fill and necessary grading, lighting, signs and marking, complete with associated drainage systems. (To determine a meter value multiply \$ value by 3.28).
3	New taxiway construction 8" deep on 2" deep asphalt / tarmac and 6" deep of reinforced concrete.	SF	20	30	Construction costs include 9" to 12" of excavation, imported engineered fill, 95% compaction of fill and necessary grading, lighting, signs and marking, complete with associated drainage systems. (To determine a square meter value multiply \$ value by 10.76).
4	New ramps/ aircraft stands / apron construction 6" deep on 2" deep asphalt / tarmac and 4" deep of reinforced concrete.	SF	15	25	Construction costs include 9" to 12" of excavation, imported engineered fill, 95% compaction of fill and necessary grading, lighting, signs and marking, complete with associated drainage systems. (To determine a square meter value multiply \$ value by 10.76).
5	Scarify and resurfacing (2" asphalt / tarmac)	SF	5	10	(To determine a square meter value multiply \$ value by 10.76).
6	New concrete hard standings 4" thick reinforced concrete on 6" imported stone / hardcore base.	SF	10	15	Construction costs include 6" to 12" of excavation, imported engineered fill, 95% compaction of fill and necessary grading, lighting, signs and marking, complete with associated drainage systems. (To determine a square meter value multiply \$ value by 10.76).
7	Scarify and resurfacing concrete hard standings 4" thick reinforced concrete on 6" imported stone / hardcore base.	SF	5	10	Construction costs include 6" to 12" of excavation, imported engineered fill, 95% compaction of fill and necessary grading, lighting, signs and marking, complete with associated drainage systems. (To determine a square meter value multiply \$ value by 10.76).
8	Demolish and remove 4" thick slab on grade reinforced with mesh	SF	2.75	3.75	(To determine a square meter value multiply \$ value by 10.76).
9	Demolish and remove 6" thick slab on grade reinforced with mesh	SF	3.15	4.15	(To determine a square meter value multiply \$ value by 10.76).
10	Concrete cleaning using sandblasting equipment	SF	2.35	2.85	(To determine a square meter value multiply \$ value by 10.76).
11	Tarmac cleaning using sandblasting equipment	SF	2.15	2.65	(To determine a square meter value multiply \$ value by 10.76).
12	New Terminal Building (2 story building 70,000 SF to 140,000 SF)	SF	190	240	(To determine a square meter value multiply \$ value by 10.76).
13	Revamp Terminal Building Minimal upgrade – New Flooring / Carpet, Painting, Upgrade MEP Systems / New Ceilings & Signage.	SF	25	50	(To determine a square meter value multiply \$ value by 10.76).



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14	Revamp Terminal Building Medium upgrade – New Flooring / Carpet, Painting, Upgrade MEP Systems / New Ceilings & Signage.	SF	50	100	(To determine a square meter value multiply \$ value by 10.76).
15	Revamp Terminal Building Major upgrade – New Flooring / Carpet, Re-Configure internal walls, Painting, New MEP Systems / New Bathrooms, F/P, New Ceilings & Signage.	SF	75	150	(To determine a square meter value multiply \$ value by 10.76).
16	Baggage Carousel c/w with electrical work	EACH	375,000	850,000	Cost range.
17	Escalator 30' – 60' length	EACH	175,000	470,000	\$5,850 to \$7,833 per LF
18	Moving Walkway 100' – 250' length	EACH	125,000	375,000	\$1,250 to \$1,750 per LF
19	Elevator 10 passenger (2 stops)	EACH	75,000	175,000	Cost range.
20	New Jet Bridge	EACH	610,000	960,000	Cost range.
21	Used – 2 nd hand Jet Bridge	EACH	380,000	650,000	Cost range.
22	100,000 Gallon Tank	EACH	320,000	470,000	Construction costs includes: excavation, sand base, foundations, tank steel material, tank erection, piping, pumps, electrical systems, metering system, insulation and painting & testing.
23	250,000 Gallon Tank	EACH	510,000	660,000	Construction costs includes: excavation, sand base, foundations, tank steel material, tank erection, piping, pumps, electrical systems, metering system, insulation and painting & testing.
24	500,000 Gallon Tank	EACH	800,000	950,000	Construction costs includes: excavation, sand base, foundations, tank steel material, tank erection, piping, pumps, electrical systems, metering system, insulation and painting & testing.
25	Passenger Parking Areas	SF	2.5	4.5	Construction costs include 3" to 6" of excavation, imported stone, 95% compaction of stone and necessary grading, lighting, signs and marking, complete with associated drainage systems and 2" deep asphalt / tarmac top coat. (To determine a square meter value multiply \$ value by 10.76).
26	Architectural / Engineering Scope & Fees	%	6.25%	8.50%	Percentage of Construction Cost
27	Construction Management	%	3.75%	5.50%	Percentage of Construction Cost
28	General Conditions / Preliminaries / Division 1 costs are included in above construction values	%	5%	9.50%	Percentage of Construction Cost: For guidance purposes only.



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