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The establishment of baseline artisan productivities as a means to monitoring employment-intensive construction: comparison to a South African case study

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Table 4.1: 2006 Artisan productivity norms in the U.S.A

Resilient Tile flooring	**Gang size**	**Average (SF)**	**Average (SM)**
(1/8") thick	1-Tilf (tile layer floor)	405	38
Synthetic turf (3/8") thick interlocking 2'*2' squares			

Brick Paving	**Crew size**	**Average (SF)**	**Average (SM)**	**No: of Bricks/per day**
4" * 8" *1.5" without joints (4.5bricks/SF)	D-1 (1- Bricklayer & 1-Brickhelper)	110	10.22	495
Grouted, (3/8)" joint (3.9bricks/SF)	D-1 (1- Bricklayer & 1-Brickhelper)	90	8.36	351

Roof tile- Clay tile ASTM C1167	**Crew size**	**Average (SF)**	**Average (SM)**	**No: of roof tiles/per day**
Americana,158pc per 100sf	1-Rots (1-roofer (tile & slate)	165	15.33	260.7
Spanish tile, 171pc per sq, red	1-Rots (1-roofer (tile & slate)	180	16.72	307.8

Painting (Oil base for dry & plaster walls)	**Crew size**	**Paint 1 coat to finish**	**Paint 1 coat to finish**	**Paint 2 coats to finish**	**Paint 3 coats to finish**
Smooth finish		**Average (SF)**	**Average (SM)**	**Average (SM)**	**Average (SM)**
Brushwork	1-PORD	1150	106.84	63.17	47.38
Roller	1-PORD	1350	125.42	74.32	60.39
Spray	1-PORD	2750	255.48	150.97	150.97
Sand finish					
Brushwork	1-PORD	975	90.58	56.21	
Roller	1-PORD	1150	106.84	94.76	
Spray	1-PORD	2275	211.35	157.94	

Plastering (Keenes cement)	**Crew size**	**Average (SY)**	**Average (SM)**
Finish only, Standard	plasterer helpers, 1 mixing machine-6 C.F)	215	180
High Quality	plasterer helpers, 1 mixing machine-6 C.F)	144	120.24

Walls: Building brick, including mortar	**Crew size**	**# of bricks/day**	**Equivalent (SF)**	**Equivalent (SM)**
4" thick, facing, 4" * 2.2/3" * 8"	D-8 (3 Bricklayers, 2 Bricklayer helpers)	1450		
4" thick, as backup, 6.75 bricks/ S.F	D-8 (3 Bricklayers, 2 Bricklayer helpers)	1600	237.04	
8" thick, 13.50 bricks/S.F	D-8 (3 Bricklayers, 2 Bricklayer helpers)	1800	133.33	

Source: Means, 2006: 62,127,217,285,299,311