



Effective Area* of Horizontal Joint Reinforcement for Hohmann & Barnard Continuous Systems

(sq. mm/m (sq. in./ft.) of wall height)

Continuous Joint Reinforcement Systems	Nominal Vertical Spacing of Reinforcement		Nominal Thickness of Masonry Wall															
			90 mm	4 in	140 mm	6 in	190 mm	8 in	240 mm	10 in	290 mm	12 in	340 mm	14 in	400 mm	16 in		
	mm	in																
220 Ladder Mesh Reinforcement																		
Standard	400	16	53	.025	53	.025	53	.025	53	.025	53	.025	53	.025	53	.025		
	200	8	105	.050	105	.050	105	.050	105	.050	105	.050	105	.050	105	.050		
Heavy Duty and Extra Heavy Duty	400	16	89	.042	89	.042	89	.042	89	.042	89	.042	89	.042	89	.042		
	200	8	178	.084	178	.084	178	.084	178	.084	178	.084	178	.084	178	.084		
120 Truss-Mesh Reinforcement																		
Standard	400	16	78	.037	76	.036	74	.035	71	.033	69	.033	67	.032	64	.030		
	200	8	155	.073	151	.071	147	.069	142	.067	138	.065	134	.063	128	.060		
Heavy Duty	400	16	114	.054	112	.053	110	.052	108	.051	106	.050	104	.049	101	.048		
	200	8	228	.108	224	.106	220	.104	215	.102	212	.100	207	.098	201	.095		
Extra Heavy Duty	400	16	132	.062	128	.060	124	.059	120	.057	117	.055	114	.054	109	.051		
	200	8	264	.125	257	.121	249	.118	241	.114	233	.110	227	.107	218	.103		
230 Ladder Tri-Mesh Reinforcement																		
Standard	400	16					79	.037	79	.037	79	.037	79	.037	79	.037	79	.037
	200	8					157	.074	157	.074	157	.174	157	.074	157	.074	157	.074
Heavy Duty and Extra Heavy Duty	400	16					133	.063	133	.063	133	.063	133	.063	133	.063	133	.063
	200	8					267	.126	267	.126	267	.126	267	.126	267	.126	267	.126
130 Truss-Tri-Mesh Reinforcement																		
Standard	400	16					100	.047	97	.046	95	.045	93	.044	91	.043		
	200	8					200	.094	195	.092	191	.090	187	.088	181	.086		
Heavy Duty	400	16					154	.073	152	.072	150	.071	148	.070	145	.068		
	200	8					309	.146	304	.144	300	.142	296	.140	290	.137		
Extra Heavy Duty	400	16					169	.080	165	.078	161	.076	158	.075	153	.072		
	200	8					338	.160	330	.156	322	.152	316	.149	307	.145		
240 Ladder-Twin-Mesh Reinforcement																		
Standard	400	16					105	.050	105	.050	105	.050	105	.050	105	.050	105	.050
	200	8					210	.099	210	.099	210	.099	210	.099	210	.099	210	.099
Heavy Duty and Extra Heavy Duty	400	16					178	.084	178	.084	178	.084	178	.084	178	.084	178	.084
	200	8					356	.168	356	.168	356	.168	356	.168	356	.168	356	.168
140 Truss Twin-Mesh Reinforcement																		
Standard	400	16					126	.060	124	.059	122	.058	120	.057	117	.055		
	200	8					252	.119	247	.117	243	.115	239	.113	234	.110		
Heavy Duty	400	16					199	.094	196	.093	195	.092	192	.091	190	.090		
	200	8					398	.188	393	.186	390	.184	385	.182	379	.179		
Extra Heavy Duty	400	16					213	.101	209	.099	206	.097	203	.096	198	.094		
	200	8					427	.202	419	.198	411	.194	405	.196	396	.187		

* Effective area of ladder-type reinforcement is the sum of all longitudinal wires.
 Effective area of truss-type reinforcement is the sum of all longitudinal wires, plus the longitudinal component of the diagonal wire.
 i.e., Area of diagonal wire x cosine of angle between longitudinal and diagonal wires.