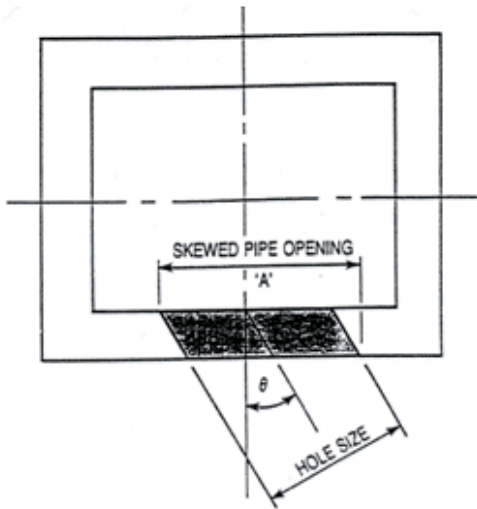


Skewed Pipe Openings For Rectangular Structures



The chart below can be used to determine the maximum wall length necessary to accommodate pipes entering a rectangular structure, at a skewed angle. Holes for skewed pipe openings are formed square and are cast at specified angles. For example: the minimum wall length necessary to accommodate a 30" rcp at a skewed angle at 45 degrees is 67".

PIPE SIZE	6"	8"	10"	12"	15"	18"	21"	24"	30"	36"	42"	48"	
	CMP	CMP	CMP	CMP	CMP	CMP	CMP	CMP	CMP	CMP	CMP	CMP	
					12" RCP	15" RCP		18" RCP	24" RCP	30" RCP	36" RCP		42" RCP
HOLE SIZE	12"	14"	16"	18"	20"	24"	27"	30"	36"	42"	48"	54"	57"
SKEW ANGLE 0													
10	14	16	18	20	22	26	29	32	37	44	50	56	59
15	15	17	19	21	23	27	30	33	39	46	52	58	61
20	16	18	20	22	24	28	32	35	41	48	54	60	64
25	17	19	21	24	26	30	34	37	43	50	57	63	67
30	18	21	23	25	28	32	36	39	46	53	60	67	70
35	20	23	25	28	30	35	39	42	50	57	64	72	75
40	22	25	28	30	33	38	42	46	54	62	69	77	81
45	25	28	31	33	36	42	46	50	59	67	76	84	89
50	28	31	34	38	41	47	52	56	66	75	84	94	98
55	32	36	39	43	46	53	58	64	74	85	95	106	111
60	38	42	46	50	54	62	68	74	86	98	110	122	128
PIPE SIZE	54" CMP	60" CMP	66" CMP	72" CMP	78" CMP	84" CMP	96" CMP						
		48" RCP	54" RCP	60" RCP	66" RCP	72" RCP	78" RCP	84" RCP	90" RCP	96" RCP	108" RCP		
HOLE SIZE	60"	66"	72"	78"	84"	92"	102"	108"	114"	120"	138"		
SKEW ANGLE 0													
10	62	68	75	81	87	95	105	111	117	123	142		

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