


	1A	1B	1C	1D
inch	3.94"	0.375"	3.0"	Ø0.75"
mm	100	9	76	Ø19

PROTECTIVE NOTE		MATERIAL: STAINLESS STEEL			
PROCESSED Bode	CHECKED Albrecht	FILENAME:		DATE 07Jul2005	SCALE %
		DRAWING NAME SQUARE APERTURE METAL DETECTORS			SHEET 1
		DRAWING NUMBER TTSi 2003			

Square Aperture - Dimensions

Metric Dimensions (mm)

Inch in shaded area


AH	AW	H	W	L	L Total	B	E	C	D	MFZ= W+AW MFZ= H+AH	MFZ	Sensitivity Ferrous ball diameter
100	100	348	340	300	500	120	128	254	356	440	450	0,5
3,94	3,94	13,70	13,39	11,81	19,69	4,72	5,04	10,0	14,0	17,32	17,72	0,02
200	200	448	440	300	500	120	128	356	356	640	630	0,9
7,87	7,87	17,64	17,32	11,81	19,69	4,72	5,04	14,0	14,0	25,20	24,80	0,04
300	300	628	620	350	550	160	168	546	406	920	860	1,4
11,81	11,81	24,72	24,41	13,78	21,65	6,30	6,61	21,5	16,0	36,22	33,86	0,06
400	400	768	760	350	600	180	188	686	406	1160	1040	3,5
15,75	15,75	30,24	29,92	13,78	23,62	7,09	7,40	27,0	16,0	45,67	40,94	0,14
500	500	908	900	400	700	200	208	826	457	1400	1260	5
19,69	19,69	35,75	35,43	15,75	27,56	7,87	8,19	32,5	18,0	55,12	49,61	0,18
600	600	1008	1000	450	850	200	208	914	508	1600	1490	6
23,62	23,62	39,69	39,37	17,72	33,46	7,87	8,19	36,0	20,0	62,99	58,66	0,24
700	700	1108	1100	500	900	200	208	1016	559	1800	1710	7
27,56	27,56	43,62	43,31	19,69	35,43	7,87	8,19	40,0	22,0	70,87	67,32	0,28
800	800	1208	1200	500	900	200	208	1118	559	2000	1890	8
31,50	31,50	47,56	47,24	19,69	35,43	7,87	8,19	44,0	22,0	78,74	74,41	0,30
900	900	1308	1300	600	1100	200	208	1219	660	2200	2160	9
35,43	35,43	51,50	51,18	23,62	43,31	7,87	8,19	48,0	26,0	86,61	85,04	0,33
1000	1000	1408	1400	600	1200	200	208	1321	660	2400	2340	10
39,37	39,37	55,43	55,12	23,62	47,24	7,87	8,19	52,0	26,0	94,49	92,13	0,37
1100	1100	1508	1500	700	1300	200	208	1422	762	2600	2610	12
43,31	43,31	59,37	59,06	27,56	51,18	7,87	8,19	56,0	30,0	102,36	102,76	0,45
1200	1200	1608	1600	700	1400	200	208	1524	762	2800	2790	13
47,24	47,24	63,31	62,99	27,56	55,12	7,87	8,19	60,0	30,0	110,24	109,84	0,51
1300	1300	1708	1700	700	1400	200	208	1626	762	3000	2970	15
51,18	51,18	67,24	66,93	27,56	55,12	7,87	8,19	64,0	30,0	118,11	116,93	0,59
1400	1400	1808	1800	800	1500	200	208	1715	851	3200	3240	17
55,12	55,12	71,18	70,87	31,50	59,06	7,87	8,19	67,5	33,5	125,98	127,56	0,65
1500	1500	1908	1900	800	1600	200	208	1816	851	3400	3420	18
59,06	59,06	75,12	74,80	31,50	62,99	7,87	8,19	71,5	33,5	133,86	134,65	0,71
1600	1600	2008	2000	900	1700	200	208	1918	953	3600	3690	20
62,99	62,99	79,06	78,74	35,43	66,93	7,87	8,19	75,5	37,5	141,73	145,28	0,79
1700	1700	2108	2100	900	1800	200	208	2019	953	3800	3870	22
66,93	66,93	82,99	82,68	35,43	70,87	7,87	8,19	79,5	37,5	149,61	152,36	0,85
1800	1800	2208	2200	900	1800	200	208	2121	953	4000	4050	24
70,87	70,87	86,93	86,61	35,43	70,87	7,87	8,19	83,5	37,5	157,48	159,45	0,93
1900	1900	2308	2300	1000	1900	200	208	2223	1054	4200	4320	25
74,80	74,80	90,87	90,55	39,37	74,80	7,87	8,19	87,5	41,5	165,35	170,08	0,98
2000	2000	2408	2400	1000	1900	200	208	2324	1054	4400	4500	27
78,74	78,74	94,80	94,49	39,37	74,80	7,87	8,19	91,5	41,5	173,23	177,17	1,06
2100	2100	2508	2500	1000	2000	200	208	2426	1054	4600	4680	28
82,68	82,68	98,74	98,43	39,37	78,74	7,87	8,19	95,5	41,5	181,10	184,25	1,10
2200	2200	2608	2600	1000	2000	200	208	2515	1054	4800	4860	29
86,61	86,61	102,68	102,36	39,37	78,74	7,87	8,19	99,0	41,5	188,98	191,34	1,14
2300	2300	2708	2700	1000	2000	200	208	2616	1054	5000	5040	30
90,55	90,55	106,61	106,30	39,37	78,74	7,87	8,19	103,0	41,5	196,85	198,43	1,18
2400	2400	2808	2800	1000	2000	200	208	2718	1054	5200	5220	30
94,49	94,49	110,55	110,24	39,37	78,74	7,87	8,19	107,0	41,5	204,72	205,51	1,18
2500	2500	2908	2900	1000	2000	200	208	2816	1054	5400	5400	30
98,43	98,43	114,49	114,17	39,37	78,74	7,87	8,19	110,87	41,50	212,60	212,60	1,18

Sensitivity is achieved in the aperture center and under best process conditions.

To calculate sensitivity for other metals use following multiplication factor.

Stainless steel = APP. Fe-ball x 1,5

Cu, Alu, Brass. = APP. Fe-ball x 1,2

PROTECTIVE NOTE		MATERIAL: STAINLESS STEEL					
PROCESSED Bode	CHECKED Albrecht	FILENAME:				DATE 07Jul2005	SCALE %
		DRAWING NAME SQUARE APERTURE METAL DETECTORS					
		DRAWING NUMBER TTSi 2003-A				SHEET 2	