

## MarGage | Standards and Gage Blocks

Today, measurement standards such as parallel gage blocks still form the basis of dimensional metrology. Their applications range from setting gages for indicating measuring instruments to reference standards in calibration laboratories. We guarantee the highest possible quality due to careful selection of materials used and accreditation of the PTB.



## MarGage 417/0

Rectangular Gage Blocks made of Steel, Tolerance Class 0

### FEATURES

- From nominal size 125 mm on, also supplied with wooden case
- Special sizes are available upon request

#### Tolerance class 0

For maximum accuracy requirements. To be used as basic standards in test laboratories and precision inspection rooms, where other gage blocks and high accuracy measuring instruments are calibrated.



- Coefficient of linear expansion:  $11.5 \times 10^{-6} \text{ K}^{-1}$

Nominal size mm	Order no.
0.5	4801009
0.55	4801173
0.6	4801174
0.65	4801175
0.7	4801176
0.75	4801177
0.8	4801178
0.85	4801179
0.9	4801180
0.95	4801181
1	4801019
1.0005	4801720
1.001	4801020
1.002	4801021
1.003	4801022
1.004	4801023
1.005	4801024
1.006	4801025
1.007	4801026
1.008	4801027
1.009	4801028
1.01	4801029
1.02	4801030
1.03	4801031
1.04	4801032
1.05	4801033
1.06	4801034
1.07	4801035
1.08	4801036
1.09	4801037
1.1	4801038
1.11	4801039
1.12	4801040
1.13	4801041
1.14	4801042
1.15	4801043
1.16	4801044
1.17	4801045
1.18	4801046
1.19	4801047
1.2	4801048
1.21	4801049
1.22	4801050
1.23	4801051
1.24	4801052
1.25	4801053

Nominal size mm	Order no.
1.26	4801054
1.27	4801055
1.28	4801056
1.29	4801057
1.3	4801058
1.31	4801059
1.32	4801060
1.33	4801061
1.34	4801062
1.35	4801063
1.36	4801064
1.37	4801065
1.38	4801066
1.39	4801067
1.4	4801068
1.41	4801069
1.42	4801070
1.43	4801071
1.44	4801072
1.45	4801073
1.46	4801074
1.47	4801075
1.48	4801076
1.49	4801077
1.5	4801078
1.6	4801079
1.7	4801080
1.8	4801081
1.9	4801082
2	4801083
2.5	4801084
3	4801085
3.5	4801086
4	4801087
4.5	4801088
5	4801089
5.5	4801090
6	4801091
6.5	4801092
7	4801093
7.5	4801094
8	4801095
8.5	4801096
9	4801097
9.5	4801098
10	4801099

Nominal size mm	Order no.
10.5	4801100
11	4801101
11.5	4801102
12	4801103
12.5	4801104
13	4801105
13.5	4801106
14	4801107
14.5	4801108
15	4801109
15.5	4801110
16	4801111
16.5	4801112
17	4801113
17.5	4801114
18	4801115
18.5	4801116
19	4801117
19.5	4801118
20	4801119
20.5	4801120
21	4801121
21.5	4801122
22	4801123
22.5	4801124
23	4801125
23.5	4801126
24	4801127
24.5	4801128
25	4801129
30	4801130
40	4801131
50	4801132
60	4801133
70	4801134
75	4801135
80	4801136
90	4801137
100	4801138
125	4801139
150	4801140
175	4801141
200	4801142
250	4801143
300	4801144
400	4801146

Nominal size mm	Order no.
500	4801148
600	4801149
700	4801150
800	4801151
900	4801152
1000	4801153

# MarGage 417/1

Rectangular gage blocks made of steel Tolerance class 1

## FEATURES

- From nominal size 125 mm on, also supplied with wooden case
- Special sizes are available upon request

**Tolerance class 1**  
For high accuracy requirements. As reference gage block for the measuring room. Designed to perform particularly accurate measurements. For setting indicating measuring instruments. For checking precision gages.



- Coefficient of linear expansion:  $11.5 \times 10^{-6} \text{ K}^{-1}$

Nominal size mm	Order no.	Nominal size mm	Order no.	Nominal size mm	Order no.	Nominal size mm	Order no.
0.5	4801209	1.26	4801254	10.5	4801300	250	4801343
0.55	4801358	1.27	4801255	11	4801301	300	4801344
0.6	4801359	1.28	4801256	11.5	4801302	400	4801346
0.65	4801360	1.29	4801257	12	4801303	481.1	4803182
0.7	4801361	1.3	4801258	12.5	4801304	500	4801348
0.75	4801362	1.31	4801259	13	4801305	600	4801349
0.8	4801363	1.32	4801260	13.5	4801306	700	4801350
0.85	4801364	1.33	4801261	14	4801307	800	4801351
0.9	4801365	1.34	4801262	14.5	4801308	900	4801352
0.95	4801366	1.35	4801263	15	4801309	1000	4801353
1	4801219	1.36	4801264	15.5	4801310		
1.0005	4801357	1.37	4801265	16	4801311		
1.001	4801220	1.38	4801266	16.5	4801312		
1.002	4801221	1.39	4801267	17	4801313		
1.003	4801222	1.4	4801268	17.5	4801314		
1.004	4801223	1.41	4801269	18	4801315		
1.005	4801224	1.42	4801270	18.5	4801316		
1.006	4801225	1.43	4801271	19	4801317		
1.007	4801226	1.44	4801272	19.5	4801318		
1.008	4801227	1.45	4801273	20	4801319		
1.009	4801228	1.46	4801274	20.5	4801320		
1.01	4801229	1.47	4801275	21	4801321		
1.02	4801230	1.48	4801276	21.5	4801322		
1.03	4801231	1.49	4801277	22	4801323		
1.04	4801232	1.5	4801278	22.5	4801324		
1.05	4801233	1.6	4801279	23	4801325		
1.06	4801234	1.7	4801280	23.5	4801326		
1.07	4801235	1.8	4801281	24	4801327		
1.08	4801236	1.9	4801282	24.5	4801328		
1.09	4801237	2	4801283	25	4801329		
1.1	4801238	2.5	4801284	30	4801330		
1.11	4801239	3	4801285	40	4801331		
1.12	4801240	3.5	4801286	131.4	4803179		
1.13	4801241	4	4801287	50	4801332		
1.14	4801242	4.5	4801288	60	4801333		
1.15	4801243	5	4801289	70	4801334		
1.16	4801244	5.5	4801290	75	4801335		
1.17	4801245	6	4801291	80	4801336		
1.18	4801246	6.5	4801292	90	4801337		
1.19	4801247	7	4801293	100	4801338		
1.2	4801248	7.5	4801294	125	4801339		
1.21	4801249	8	4801295	243.5	4803180		
1.22	4801250	8.5	4801296	150	4801340		
1.23	4801251	9	4801297	175	4801341		
1.24	4801252	9.5	4801298	200	4801342		
1.25	4801253	10	4801299	281.2	4803181		

## MarGage 417/2

Rectangular Gage Blocks made of Steel, Tolerance Class 2

### FEATURES

- From nominal size 125 mm on, also supplied with wooden case
- Special sizes are available upon request

#### Tolerance class 2

For checking production gages of quality IT 6 and IT 7. For setting indicating measuring instruments and for checking accurate dimensions in the jig and tool industry.

- Coefficient of linear expansion:  $11.5 \times 10^{-6} \text{ K}^{-1}$



Nominal size mm	Order no.	Nominal size mm	Order no.	Nominal size mm	Order no.	Nominal size mm	Order no.
0.5	4801409	1.26	4801454	10.5	4801500	250	4801543
0.55	4801777	1.27	4801455	11	4801501	300	4801544
0.6	4801778	1.28	4801456	11.5	4801502	481.1	4803382
0.65	4801779	1.29	4801457	12	4801503	400	4801546
0.7	4801780	1.3	4801458	12.5	4801504	500	4801548
0.75	4801781	1.31	4801459	13	4801505	600	4801549
0.8	4801782	1.32	4801460	13.5	4801506	700	4801550
0.85	4801783	1.33	4801461	14	4801507	800	4801551
0.9	4801784	1.34	4801462	14.5	4801508	900	4801552
0.95	4801785	1.35	4801463	15	4801509	1000	4801553
1	4801419	1.36	4801464	15.5	4801510		
1.0005	4803068	1.37	4801465	16	4801511		
1.001	4801420	1.38	4801466	16.5	4801512		
1.002	4801421	1.39	4801467	17	4801513		
1.003	4801422	1.4	4801468	17.5	4801514		
1.004	4801423	1.41	4801469	18	4801515		
1.005	4801424	1.42	4801470	18.5	4801516		
1.006	4801425	1.43	4801471	19	4801517		
1.007	4801426	1.44	4801472	19.5	4801518		
1.008	4801427	1.45	4801473	20	4801519		
1.009	4801428	1.46	4801474	20.5	4801520		
1.01	4801429	1.47	4801475	21	4801521		
1.02	4801430	1.48	4801476	21.5	4801522		
1.03	4801431	1.49	4801477	22	4801523		
1.04	4801432	1.5	4801478	22.5	4801524		
1.05	4801433	1.6	4801479	23	4801525		
1.06	4801434	1.7	4801480	23.5	4801526		
1.07	4801435	1.8	4801481	24	4801527		
1.08	4801436	1.9	4801482	24.5	4801528		
1.09	4801437	2	4801483	25	4801529		
1.1	4801438	2.5	4801484	30	4801530		
1.11	4801439	3	4801485	40	4801531		
1.12	4801440	3.5	4801486	41.3	4803329		
1.13	4801441	4	4801487	50	4801532		
1.14	4801442	4.5	4801488	60	4801533		
1.15	4801443	5	4801489	70	4801534		
1.16	4801444	5.5	4801490	75	4801535		
1.17	4801445	6	4801491	80	4801536		
1.18	4801446	6.5	4801492	90	4801537		
1.19	4801447	7	4801493	100	4801538		
1.2	4801448	7.5	4801494	125	4801539		
1.21	4801449	8	4801495	131.4	4803330		
1.22	4801450	8.5	4801496	150	4801540		
1.23	4801451	9	4801497	175	4801541		
1.24	4801452	9.5	4801498	200	4801542		
1.25	4801453	10	4801499	243.5	4803331		

## MarGage 417 C/0

Rectangular Gage Blocks made of Ceramic, Tolerance Class 0

### FEATURES

- Ideal for all applications
- The outstanding features of all ceramic gage blocks from Mahr provide unrivalled flexibility in practical use
- **Advantages of ceramic:**
  - Resistant to impact and breakage. Damage to measuring surfaces from scratches or to edges from impact causes minimal burring. Sliding ability is retained for longer
  - **Extremely wear-resistant.** The longest life and highest stability of any material currently used in measuring technology. Allows for significantly longer gage monitoring intervals
  - **Corrosion-resistant.** Circonimar is extremely resistant to alkalis, acids, oil, grinding fluid and other aggressive media even without protective measures
  - **Coefficient of expansion similar to that of steel.** Therefore there are no usage restrictions, even in extreme temperature conditions
  - Circonimar is non-magnetizable, anti-static, anti-magnetic and non-conductive. It does not attract dust or dirt.

#### Tolerance class 0

For maximum accuracy requirements. To be used as basic standards in test laboratories and precision inspection rooms, where other gage blocks and high accuracy measuring instruments are calibrated.

- **Coefficient of linear expansion:**  $9.3 \times 10^{-6} \text{ K}^{-1}$

Nominal size mm	Order no.	Nominal size mm	Order no.
0.5	4804000	1.5	4804069
1	4804010	1.6	4804070
1.0005	4804759	1.7	4804071
1.001	4804011	1.8	4804072
1.002	4804012	1.9	4804073
1.003	4804013	2	4804074
1.004	4804014	2.5	4804075
1.005	4804015	3	4804076
1.006	4804016	3.5	4804077
1.007	4804017	4	4804078
1.008	4804018	4.5	4804079
1.009	4804019	5	4804080
1.01	4804020	5.5	4804081
1.02	4804021	6	4804082
1.03	4804022	6.5	4804083
1.04	4804023	7	4804084
1.05	4804024	7.5	4804085
1.06	4804025	8	4804086
1.07	4804026	8.5	4804087
1.08	4804027	9	4804088
1.09	4804028	9.5	4804089
1.1	4804029	10	4804090
1.11	4804030	10.5	4804091
1.12	4804031	11	4804092
1.13	4804032	11.5	4804093
1.14	4804033	12	4804094
1.15	4804034	12.5	4804095
1.16	4804035	13	4804096
1.17	4804036	13.5	4804097
1.18	4804037	14	4804098
1.19	4804038	14.5	4804099
1.2	4804039	15	4804100
1.21	4804040	15.5	4804101
1.22	4804041	16	4804102
1.23	4804042	16.5	4804103
1.24	4804043	17	4804104
1.25	4804044	17.5	4804105
1.26	4804045	18	4804106
1.27	4804046	18.5	4804107
1.28	4804047	19	4804108
1.29	4804048	19.5	4804109
1.3	4804049	20	4804110
1.31	4804050	20.5	4804111
1.32	4804051	21	4804112
1.33	4804052	21.5	4804113
1.34	4804053	22	4804114
1.35	4804054	22.5	4804115
1.36	4804055	23	4804116
1.37	4804056	23.5	4804117
1.38	4804057	24	4804118
1.39	4804058	24.5	4804119
1.4	4804059	25	4804120
1.41	4804060	30	4804121
1.42	4804061	40	4804122
1.43	4804062	50	4804123
1.44	4804063	60	4804124
1.45	4804064	70	4804125
1.46	4804065	75	4804126
1.47	4804066	80	4804127
1.48	4804067	90	4804128
1.49	4804068	100	4804129



## MarGage 417 C/1

Rectangular Gage Blocks made of Ceramic, Tolerance Class 1

### FEATURES

- Ideal for all applications
- The outstanding features of all ceramic gage blocks from Mahr provide unrivalled flexibility in practical use

- **Advantages of ceramic:**

- Resistant to impact and breakage. Damage to measuring surfaces from scratches or to edges from impact causes minimal burring. Sliding ability is retained for longer
- **Extremely wear-resistant.** The longest life and highest stability of any material currently used in measuring technology. Allows for significantly longer gage monitoring intervals
- **Corrosion-resistant.** Circonimar is extremely resistant to alkalis, acids, oil, grinding fluid and other aggressive media even without protective measures
- **Coefficient of expansion similar to that of steel.** Therefore there are no usage restrictions, even in extreme temperature conditions
- Circonimar is non-magnetizable, anti-static, anti-magnetic and non-conductive. It does not attract dust or dirt.

#### Tolerance class 1

For high accuracy requirements. As reference gage block for the measuring room. Designed to perform particularly accurate measurements. For setting indicating measuring instruments. For checking precision gages.

- **Coefficient of linear expansion:**  $9.3 \times 10^{-6} \text{ K}^{-1}$

Nominal size mm	Order no.
0.5	4804200
1	4804210
1.0005	4804764
1.001	4804211
1.002	4804212
1.003	4804213
1.004	4804214
1.005	4804215
1.006	4804216
1.007	4804217
1.008	4804218
1.009	4804219
1.01	4804220
1.02	4804221
1.03	4804222
1.04	4804223
1.05	4804224
1.06	4804225
1.07	4804226
1.08	4804227
1.09	4804228
1.1	4804229
1.11	4804230
1.12	4804231
1.13	4804232
1.14	4804233
1.15	4804234
1.16	4804235
1.17	4804236
1.18	4804237
1.19	4804238
1.2	4804239
1.21	4804240
1.22	4804241
1.23	4804242
1.24	4804243
1.25	4804244
1.26	4804245
1.27	4804246
1.28	4804247
1.29	4804248
1.3	4804249
1.31	4804250
1.32	4804251
1.33	4804252
1.34	4804253
1.35	4804254
1.36	4804255
1.37	4804256
1.38	4804257
1.39	4804258
1.4	4804259
1.41	4804260
1.42	4804261
1.43	4804262
1.44	4804263
1.45	4804264
1.46	4804265
1.47	4804266
1.48	4804267
1.49	4804268

Nominal size mm	Order no.
1.5	4804269
1.6	4804270
1.7	4804271
1.8	4804272
1.9	4804273
2	4804274
2.5	4804275
3	4804276
3.5	4804277
4	4804278
4.5	4804279
5	4804280
5.1	4804751
5.5	4804281
6	4804282
6.5	4804283
7	4804284
7.5	4804285
7.7	4804752
8	4804286
8.5	4804287
9	4804288
9.5	4804289
10	4804290
10.3	4804753
10.5	4804291
11	4804292
11.5	4804293
12	4804294
12.5	4804295
12.9	4804754
13	4804296
13.5	4804297
14	4804298
14.5	4804299
15	4804300
15.5	4804301
16	4804302
16.5	4804303
17	4804304
17.5	4804305
17.6	4804755
18	4804306
18.5	4804307
19	4804308
19.5	4804309
20	4804310
20.2	4804756
20.5	4804311
21	4804312
21.5	4804313
22	4804314
22.5	4804315
22.8	4804757
23	4804316
23.5	4804317
24	4804318
24.5	4804319
25	4804320
30	4804321
40	4804322

Nominal size mm	Order no.
41.3	4804758
50	4804323
60	4804324
70	4804325
75	4804326
80	4804327
90	4804328
100	4804329
131.4	4804760

## MarGage 417 C/2

Rectangular Gage Blocks made of Ceramic, Tolerance Class 2

### FEATURES

- Ideal for all applications
- The outstanding features of all ceramic gage blocks from Mahr provide unrivalled flexibility in practical use
- **Advantages of ceramic:**
  - Resistant to impact and breakage. Damage to measuring surfaces from scratches or to edges from impact causes minimal burring. Sliding ability is retained for longer
  - **Extremely wear-resistant.** The longest life and highest stability of any material currently used in measuring technology. Allows for significantly longer gage monitoring intervals
  - **Corrosion-resistant.** Circonimar is extremely resistant to alkalis, acids, oil, grinding fluid and other aggressive media even without protective measures
  - **Coefficient of expansion similar to that of steel.** Therefore there are no usage restrictions, even in extreme temperature conditions
  - Circonimar is non-magnetizable, anti-static, anti-magnetic and non-conductive. It does not attract dust or dirt.

#### Tolerance class 2

For checking production gages of quality IT 6 and IT 7. For setting indicating measuring instruments and for checking accurate dimensions in the jig and tool industry.

- **Coefficient of linear expansion:**  $9.3 \times 10^{-6} \text{ K}^{-1}$

Nominal size mm	Order no.
0.5	4804400
1	4804410
1.0005	4804765
1.001	4804411
1.002	4804412
1.003	4804413
1.004	4804414
1.005	4804415
1.006	4804416
1.007	4804417
1.008	4804418
1.009	4804419
1.01	4804420
1.02	4804421
1.03	4804422
1.04	4804423
1.05	4804424
1.06	4804425
1.07	4804426
1.08	4804427
1.09	4804428
1.1	4804429
1.11	4804430
1.12	4804431
1.13	4804432
1.14	4804433
1.15	4804434
1.16	4804435
1.17	4804436
1.18	4804437
1.19	4804438
1.2	4804439
1.21	4804440
1.22	4804441
1.23	4804442
1.24	4804443
1.25	4804444
1.26	4804445
1.27	4804446
1.28	4804447
1.29	4804448
1.3	4804449
1.31	4804450
1.32	4804451
1.33	4804452
1.34	4804453
1.35	4804454
1.36	4804455
1.37	4804456
1.38	4804457
1.39	4804458
1.4	4804459
1.41	4804460
1.42	4804461
1.43	4804462
1.44	4804463
1.45	4804464
1.46	4804465
1.47	4804466
1.48	4804467
1.49	4804468

Nominal size mm	Order no.
1.5	4804469
1.6	4804470
1.7	4804471
1.8	4804472
1.9	4804473
2	4804474
2.5	4804475
3	4804476
3.5	4804477
4	4804478
4.5	4804479
5	4804480
5.1	4806114
5.5	4804481
6	4804482
6.5	4804483
7	4804484
7.5	4804485
7.7	4806115
8	4804486
8.5	4804487
9	4804488
9.5	4804489
10	4804490
10.3	4806116
10.5	4804491
11	4804492
11.5	4804493
12	4804494
12.5	4804495
12.9	4806117
13	4804496
13.5	4804497
14	4804498
14.5	4804499
15	4804500
15.5	4804501
16	4804502
16.5	4804503
17	4804504
17.5	4804505
17.6	4806118
18	4804506
18.5	4804507
19	4804508
19.5	4804509
20	4804510
20.2	4806119
20.5	4804511
21	4804512
21.5	4804513
22	4804514
22.5	4804515
22.8	4806120
23	4804516
23.5	4804517
24	4804518
24.5	4804519
25	4804520
30	4804521
40	4804522

Nominal size mm	Order no.
41.3	4806121
50	4804523
60	4804524
70	4804525
75	4804526
80	4804527
90	4804528
100	4804529
131.4	4806122