

Ceramic Plates

Alumina 96, Steatite, Machinable Ceramics

- Alumina 96: Excels in abrasion resistance, insulation and heat resistance.
- Steatite: Excels in insulation and high frequency characteristic.
- Machinable Ceramics: Excels in insulation, heat insulation and machinability. Can be machined into complex shapes or finished with precision.

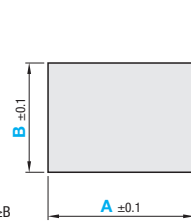
Ceramic Plates



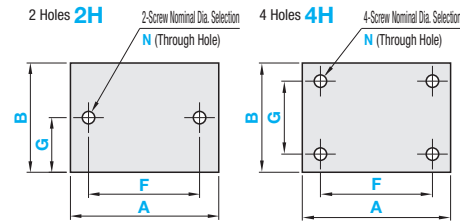
Part Number	Material	Finish Precision	Color	Operating Ambient Temperature
CEA	Alumina 96	Standard Grade	White	Ambient Temperature-1,300°C
CEAV	Alumina 96	Precision Grade		
CCES	Steatite	Standard Grade	White	Ambient Temperature-1,000°C
CCESV	Steatite	Precision Grade		
CEM	Machinable Ceramics	Standard Grade	Natural Color	Ambient Temperature-1,000°C

Material is alumina 99.5 for Pre-Drilled Types T = 2 or 2.5 and T = 1.

Standard Type

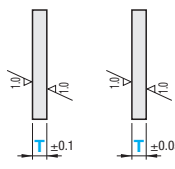


Pre-drilled Type



Standard Grade Precision Grade

CEA
CCES
CEM



Standard Type

Part Number	1mm Increment	Selection
Type	A	B
CEA	10~200	10~100
CEM		
CEAV	10~100	10~100
CCES		
CCESV	10~70	10~70

Accuracy Standards

Item	CEA, CCES, CEM	CEAV, CCESV
Thickness Parallelism (per 100mm)	0.1	0.05
Flatness	T=1	0.05
(per 100mm)	T=2-5	0.1

Hole Machining Details

Screw Nominal Dia.	3	4	5	6	8	10
d	3.5	4.5	5.5	6.5	9	11

Pre-drilled Type

Part Number	1mm Increment	Selection	0.5mm Increment	Screw Nominal Dia. Selection
Type	A	B	F	N (Through)
CEA	20~200	10~100	9~191	3
CEM				
CEAV	20~100	10~100	9~91	4
CCES	20~70	10~70	9~61	5
CCESV				6
				8
				10

For F dimension, d+5≤F≤A-d-5 is required.
G Dimension: For 2H, d/2+2.5≤G≤B-d/2-2.5; for 4H, d+5≤G≤B-d-5.

Ordering Example
Standard Type
Part Number - A - B - T
CEA - 60 - 55 - 2

Pre-drilled Type
Part Number - A - B - T - F - G - Screw Nominal Dia.
CEA4H - 80 - 80 - 1 - F55 - G55 - N6

Standard Type

Part Number	T	A	Unit Price			
			CEA	CEAV	CEM	CCESV
CEA	1	10-50				
		51-100				
		101-150				
		151-200				
CEAV	2	10-50				
		51-100				
		101-150				
CEM	2.5	10-50				
		51-100				
		101-150				

Part Number	T	A	Unit Price			
			CCES	CCESV	CCESV	CCESV
CCES	3	10-35				
		36-70				
CCESV	5	10-35				
		36-70				

Alterations
Part Number - A - B - T - F - G - Screw Nominal Dia. - (XC, YC)
CEA2H - 80 - 80 - 1 - F30 - G40 - N6 - XC15

Alterations	Hole Position from Left	Hole Position from Bottom
Code	XC	YC
Spec.	XC = 1mm Increment 5≤XC≤186(CEA, CEM) 5≤XC≤86(CEAV) 5≤XC≤56(CCES, CCESV) d(d1)/2+2.5≤XC≤A-F-d(d1)/2-2.5	YC = 1mm Increment (Not available for 2H). 5≤YC≤86(CEA, CEAV, CEM) 5≤YC≤56(CCES, CCESV) d(d1)/2+2.5≤YC≤B-G-d(d1)/2-2.5

Hole Machining Charge
Pre-drilled Type (Ex.) Part Number - A - B - T - F - G - Screw Nominal Dia. - N
CEA2H - 90 - 60 - 1 - F60 - G30 - N6
(Standard Type Unit Price) + (Hole Machining Charge) = Pre-drilled Type Price

Pre-drilled Type Price = Standard Type Unit Price + Hole Machining Charge

Ceramic Plates

Alumina 99

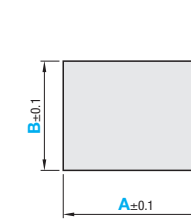
Alumina 99: Excels in abrasion resistance, insulation and heat resistance.

Ceramic Plates

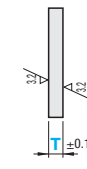
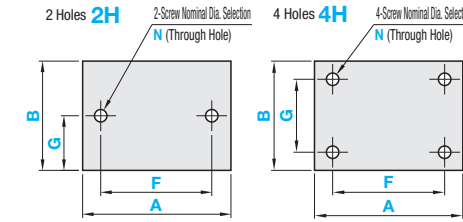


Part Number	Material	Finish Precision	Color	Operating Ambient Temperature
CEMN	Alumina 99	Standard Grade	Natural Color	Room Temp. ~ 1500°C

Standard Type



Pre-drilled Type



Standard Type

Part Number	1mm Increment	Selection
Type	A	B
CEMN	50~470	50~170

Pre-drilled Type

Part Number	1mm Increment	Selection	0.5mm Increment	Screw Nominal Dia. Selection
Type	A	B	F	G
CEMN	50~470	50~170	3	5~165 (2H)
			5	9~461 (2H)
			10	9~161 (4H)
				3
				4
				5
				6
				8
				10

Hole Machining Details

Screw Nominal Dia.	3	4	5	6	8	10
d	3.5	4.5	5.5	6.5	9	11

For F dimension, d+5≤F≤A-d-5 is required.
G Dimension: For 2H, d/2+2.5≤G≤B-d/2-2.5; for 4H, d+5≤G≤B-d-5.

Ordering Example
Standard Type
Part Number - A - B - T
CEMN - 60 - 55 - 3

Pre-drilled Type
Part Number - A - B - T - F - G - Screw Nominal Dia.
CEMN4H - 80 - 80 - 3 - F55 - G55 - N6

Standard Type

T	A	Unit Price		
		B50~100	B101~150	B151~170
3	50~100			
	101~150			
	151~200			
	201~250			
	251~350			
5	50~100			
	101~150			
	151~200			
	201~250			
	251~350			
10	50~100			
	101~150			
	151~200			
	201~250			
	251~350			

Hole Machining Charge

Pre-drilled Type	Screw Nominal N	T		
		3	5	10
2H	3			
	4, 5, 6			
	8			
	10			
4H	3			
	4, 5, 6			
	8			
	10			

Pre-drilled Type Price = Standard Type Unit Price + Hole Machining Charge

(Ex.) Part Number - A - B - T - F - G - Screw Nominal Dia. - N
CEMN2H - 90 - 60 - 3 - F60 - G30 - N6

(Standard Type Unit Price) + (Hole Machining Charge) = Pre-drilled Type Price

Alterations
Part Number - A - B - T - F - G - Screw Nominal Dia. - (XC, YC)
CEMN2H - 80 - 80 - 3 - F30 - G40 - N6 - XC15

Alterations	Hole Position from Left	Hole Position from Bottom
Code	XC	YC
Spec.	XC = 1mm Increment 5≤XC≤456 d/2+2.5≤XC≤A-F-d/2-2.5	YC = 1mm Increment (Not available for 2H). 5≤YC≤160 d/2+2.5≤YC≤B-G-d/2-2.5

Pre-drilled Type Price = Standard Type Unit Price + Hole Machining Charge