Gussets

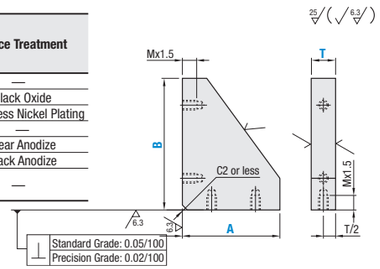
Tapped, Hole Position Fixed Type

Gussets – Tapped, Hole Position Fixed Type

RoHS10

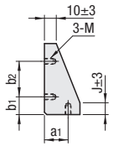
Type: Standard Class (Perpendicularity Z0.05/100)	Type: Precision Class (Perpendicularity Z0.02/100)	Material	Surface Treatment
RBBS	RGBS	General Structural Steel	—
RBBB	RGBB		Black Oxide
RBBM	RGBM		Electroless Nickel Plating
RBBA	RGBA	Aluminum Alloy	—
RBBW	RGBW		Clear Anodize
RBBV	RGBV		Black Anodize
RBBF	RGBF	304 Stainless Steel	—

⊗ Precision Grade is not specifiable for B200 or more.



ⓘ For details of dimension, see Hole and Bolt Selection Table.

When A=20 and 30



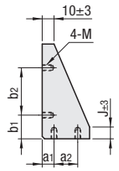
A	a_1
20	12.5
30	20

B	b_1	b_2	J
30	10	*10	10
40	10	20	
50	15	20	
60	15	30	
80	15	50	
100	20	60	B-(A-10)

The Manufacturing tolerance of * is $^{+0.2}_{0}$ other dimensions are general tolerance (JISB0405). **P.4003**

T	M
6	3
9 or 10	5
12	6

When A=40



A	a_1	a_2
40	*10	*20

*When B=40, in order to prevent interference, (a_1, a_2) dimensions are (15, 15).

When B=50, 60 and T12, similarly (a_1, a_2) dimensions are (15, 15).

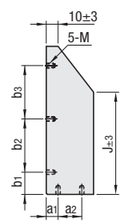
B	b_1	b_2	b_3	J
40	15	15	—	10
50	*12.5	*25	—	
60	15	30	—	
80	20	40	—	
100	20	60	—	
150	37.5	75	—	B-(A-10)
200	30	75	75	

*When B=50, in order to prevent interference, (b_1, b_2) dimensions are (15, 20).

ⓘ See the right table (A=50~150) when B=200.

T	M
9 or 10	5
12	6
16	8

When A=50–150



A	a_1	a_2
50	12.5	25
60	15	30
80	20	40
100	25	50
150	37.5	75

B	b_1	b_2	b_3	J
50	12.5	25	—	10
60	15	30	—	
80	20	40	—	
100	25	50	—	
150	37.5	75	—	
200	30	75	75	B-(A-10)
250	30	100	100	
300	30	120	120	

ⓘ 2 mounting holes for B150 or less.

T	M
9 or 10	5
12	6*
16	8

*M8 when B≥100.

Part Number: Type	Part Number: A	B Selection	T: 1018 Carbon Steel or Equivalent / 304 Stainless Steel	T: 5052 Aluminum Alloy
Standard Class Perpendicularity Z0.05/100 1018 Carbon Steel or Equivalent RBBS RBBB RBBM; 5052 Aluminum Alloy RBBA RBBW RBBV; 304 Stainless Steel RBBF	Precision Class Perpendicularity Z0.02/100 1018 Carbon Steel or Equivalent RGBS RGBB RGBM; 5052 Aluminum Alloy RGBA RGBW RGBV; 304 Stainless Steel RGBF			
	20	30 40 50 60 80	6	6
	30	30	6 12	6 12
		40 50 60 80 100	9 12	10 12
	40	40 50 60 80 100	9 12	10 12
		150 200	12 16	12 16
	50	50 60 80 100	9 12	10 12
		150 200 250	12 16	12 16
	60	60 80 100	9 12	10 12
		150 200 250 300	12 16	12 16
	80	80 100 150	9 12 16	10 12 16
		200 250 300	12 16	12 16
	100	100 150	9 12 16	10 12 16
		200 250 300	12 16	12 16
	150	150 200 250 300	12 16	12 16

⊗ Precision Grade is not specifiable for B200 or more.

A+B	Available Types: 1018 Carbon Steel RBBS T=6, 9	RBBS T=12	RBBS T=16	RBBB T=6, 9	RBBB T=12	RBBB T=16	RBBM T=6, 9	RBBM T=12	RBBM T=16	5052 Aluminum Alloy RBBA T=6, 10	RBBA T=12	RBBA T=16	RBBW, RBBV T=6, 10	RBBW, RBBV T=12	RBBW, RBBV T=16	304 Stainless Steel RBBF T=6, 9	RBBF T=12	RBBF T=16
50	•	—		•	—		•	—		•	—		•	—		•	—	
60	•	•		•	•		•	•		•	•		•	•		•	•	
70	•	•	—	•	•	—	•	•	—	•	•	—	•	•	—	•	•	—
80	•	•		•	•		•	•		•	•		•	•		•	•	
90	•	•		•	•		•	•		•	•		•	•		•	•	
100	•	•		•	•		•	•		•	•		•	•		•	•	
110	•	•		•	•		•	•		•	•		•	•		•	•	
120	•	•		•	•		•	•		•	•		•	•		•	•	
130	•	•	—	•	•	—	•	•	—	•	•	—	•	•	—	•	•	—
140	•	•		•	•		•	•		•	•		•	•		•	•	
150	•	•		•	•		•	•		•	•		•	•		•	•	
160	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
180	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
190	—	•	•	—	•	•	—	•	•	—	•	•	—	•	•	—	•	•
200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
210	—	•	•	—	•	•	—	•	•	—	•	•	—	•	•	—	•	•
230	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
240	—	•	•	—	•	•	—	•	•	—	•	•	—	•	•	—	•	•
250	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
260		•	•		•	•		•	•		•	•		•	•		•	•
280	—	•	•	—	•	•	—	•	•	—	•	•	—	•	•	—	•	•
300		•	•		•	•		•	•		•	•		•	•		•	•
310		•	•		•	•		•	•		•	•		•	•		•	•
330		•	•		•	•		•	•		•	•		•	•		•	•
350		•	•		•	•		•	•		•	•		•	•		•	•
360	—	•	•	—	•	•	—	•	•	—	•	•	—	•	•	—	•	•
380		•	•		•	•		•	•		•	•		•	•		•	•
400		•	•		•	•		•	•		•	•		•	•		•	•
450		•	•		•	•		•	•		•	•		•	•		•	•

Part Number Example

Part Number	-	B	-	T
RBBS50	-	100	-	9

Part Number Alterations

Part Number	-	B	-	T	-	(NL)
RBBS80	-	100	-	12	-	NL

Alteration	Code	Spec.
	NL	One tapped hole at the center of side A. **Ordering Code:** NL. ⊗ Not applicable when A=20, 30.

Gussets

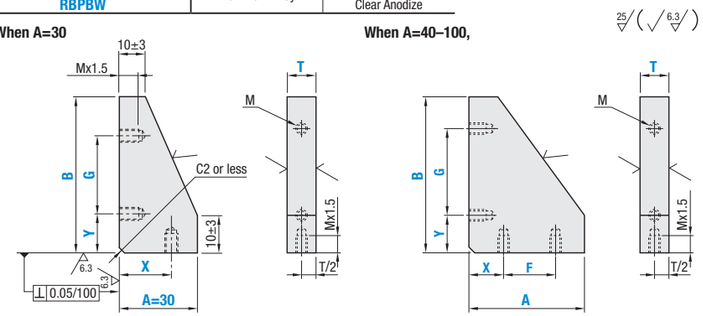
Tapped, Hole Position Specified Type

Feature: When mounting hole pitch does not match with the fixed dimension on the left-hand page, the following standard is available.

Gussets – Tapped, Hole Position Specified Type

RoHS10

Type: Standard Class (Perpendicularity Z0.05/100)	Material	Surface Treatment
RBPBS	General Structural Steel	—
RBPBB		Black Oxide
RBPBM		Electroless Nickel Plating
RBPBA	Aluminum Alloy	—
RBPBW		Clear Anodize



ⓘ When A=30, side A has one mounting hole. ⓘ Depending on the specified dimension, pilot hole for tapping may go through to the reverse side.

Part Number: Type	Part Number: A	B Selection	1 mm Increment: Side A Hole Pitch X	Side A Hole Pitch F	Side B Hole Pitch Y	Side B Hole Pitch G	M (Coarse)	T: 1018 Carbon Steel or Equivalent	T: 5052 Aluminum Alloy
Standard Class 1018 Carbon Steel or Equivalent RBPBS RBPBB RBPBM; 5052 Aluminum Alloy RBPBA RBPBW	30	30 40 50 60 80	X≥Mx2*1	—*2	Y≥Mx2*1	G≥Mx2 and Y+G≤B-6*3	4 5 6	9	10
							5 6	12	12
	40	40 50 60 80 100		F≥Mx2 and X+F≤A−6*3			4 5 6	9	10
							5 6	12	12
	50	50 60 80 100					4 5 6	9	10
							5 6	12	12
	60	60 80 100					4 5 6	9	10
							5 6	12	12
	80	80 100 150		0*4		0*4	4 5 6	9	10
							5 6 8	12	12
	100	100 150					4 5 6	9	10
							5 6 8	12	12

*1 The first tapped hole is distanced twice or more that of thread diameter from edge surface in order to prevent interference.
*2 When A=30, side A has one mounting hole and specification of F dimension is not required.
*3 Set apart the second tapped hole twice or more M (thread diameter) from the first and 6 mm or more from the edge surface.
*4 When 0 is specified for F and G dimensions, one mounting hole is available.

Part Number Example

Part Number	-	B	-	X	-	F	-	Y	-	G	-	M	-	T
RBPBS30	-	60	-	X20			-	Y20	-	G20	-	M6	-	T9
RBPBW60	-	100	-	X20	-	F20	-	Y25	-	G50	-	M6	-	T12