

ALUMINIUM ALLOY SPECIFICATION

(A) MECHANICAL PROPERTIES

Alloy Specification OLD NEW	TEMPER OLD NEW	0.2% Proof Stress Mpa.mIn	Tensile Strength Mpa. Min.	Ultimate Elongation % on 50mm Gauge % Min.	Typical Brinell Hardness No BHN	Equivalents Alloy
E1S 19000	M F	-	(65)	(18)	20	-
E1B 19500	M F	-	(65)	(23)	18	-
HE9 63400	M F	-	(110)	(23)	-	AA6063
	W T4	80	140	14	45	
	P T5	140	170	7	-	
	WP T6	150	185	7	60	
E91E 63401	W T4	80	140	12	-	-
	W T6	135	170	12	55	
HE30 64430	M F	-	(110)	(14)	-	Equivalents AA6063
	W T4	120	185	14	60	
HE20 -	WP T6	270	310	7	95	ISO Al Si1 Mg Mn ASTM 6351
	M F	-	(110)	(12)	-	
65032	W T4	115	185	14	55	-
	WP T6	235	280	7	85	
	P T5	240	260	8	80	
	-	-	-	-	-	
AA6005	-	-	-	-	-	BS 1474 ISO - Al Mg Si
	-	-	-	-	-	
	-	-	-	-	-	
	-	-	-	-	-	
AA6060	-	-	-	-	-	Equivalent ISO Al Mg Cu
	-	-	-	-	-	
	-	-	-	-	-	
	-	-	-	-	-	
AA6061	-	-	-	-	-	Equivalent ISO Al Mg Cu
	-	-	-	-	-	
	-	-	-	-	-	
	-	-	-	-	-	

(B) CHEMICAL COMPOSITION PERCENTAGE

Designation	INDIAN	Copper Cu	Magnesium Mg	Silicon Si	Iron Fe	Manganese Mn	Zink Zn	Titanium Ti	Chromium Cr	Others Each Total	Aluminium Al	Remarks
19000	1100	0.1	0.2	0.5	0.7	0.1	0.1	-	-	0.05 -	99.0 Min	Ti=00.7 T+V=0.07
19500	1050	0.05	0.05	0.3	0.4	0.05	0.1	-	-	0.03 -	99.5 Min	
63400	6063	0.1	0.4-0.8	0.3-0.7	0.35-0.5	0.3	0.2	0.2	0.1	0.05 0.15	Remainder	
63401	6101	0.05	0.4-0.9	0.3-0.7	0.5	0.03	0.10	0.10	0.03	0.03 0.10	Remainder	
64430	6351	0.1	0.4-1.2	0.6-1.6	0.6	0.4-1.0	0.1	0.2	0.25	0.05 0.15	Remainder	
65032	6061	0.15-0.4	0.7-1.2	0.4-0.8	0.7	0.2-0.8	0.2	0.2	0.15-0.35	0.05 0.15	Remainder	Either Mn or Cr Shall Be present
AA6005	6005	0.10	0.40-0.60	0.60-0.90	0.35	0.10	0.10	0.10	0.1	0.05 0.15	Remainder	
AA6060	6060	0.10	0.35-0.60	0.35-0.60	0.10-0.30	0.10	0.15	0.10	0.05	0.05 0.15	Remainder	
AA6061	6061	0.15-0.40	0.8-1.20	0.8-1.20	0.7	0.15	0.25	0.15	0.04-0.35	0.05 0.15	Remainder	
	6082	0.1	0.60-1.2	0.7-1.3	0.5	0.4-1.0	0.2	0.1	0.25		Remainder	

Note:- Composition in Maximum unless shown as a range or a minimum.



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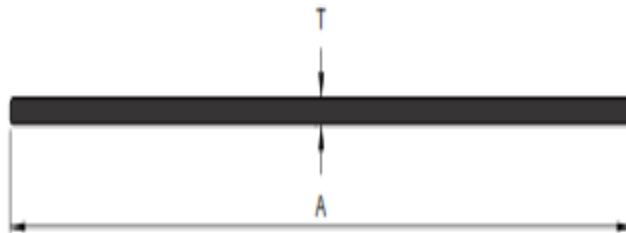
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Flat Bar



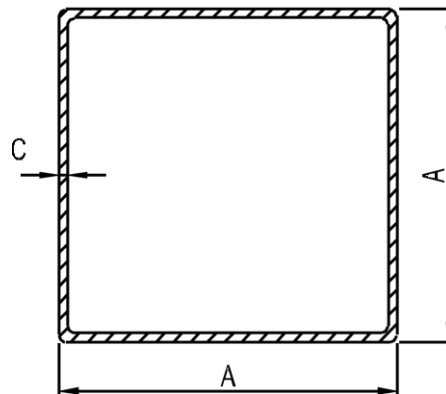
A	B	WT. IN kg/12'
32	12	2.400-2.600
25	5	1.200-1.400
40	6	2.400-2600
40	10	4.000-4.200



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38x38 Square Tube



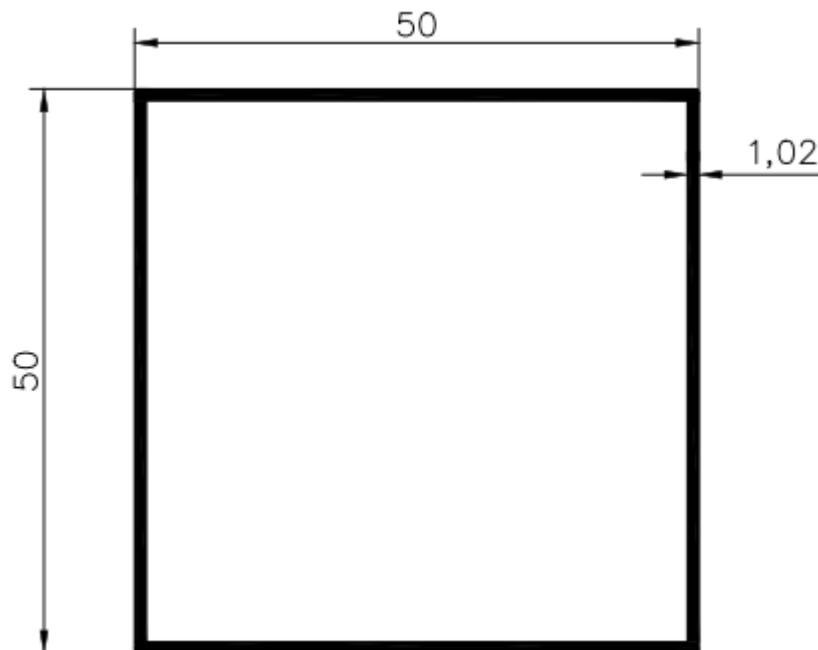
WT. IN 12'
1.600-1.800
1.800-2.000
2.000-2.200
2.200-2.400
2.400-2.600
2.600-2.800
2.800-3.000



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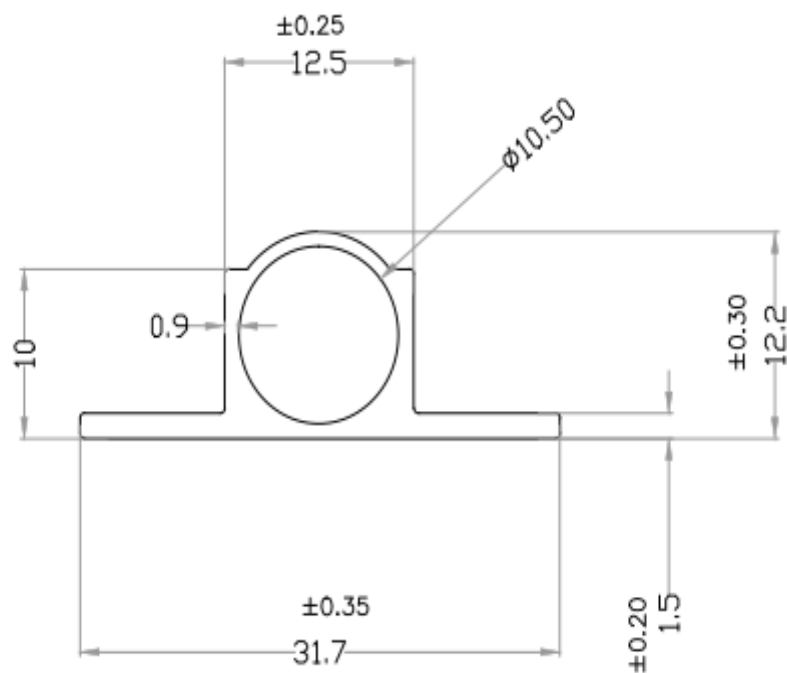
50x50 Square Tube



A	B	T.	WT. IN kg/12'
50	50	1.02	1.800-2.000
50	50	1.5	2.800-3.000
50	50	2	3.800-4.000



Tower Bolt



WT. IN 12'
0.800-0.900

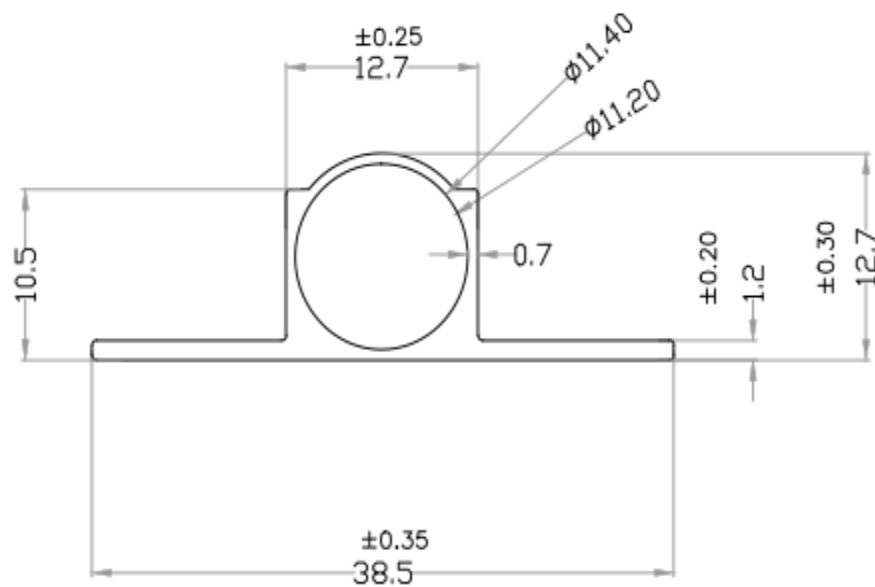
Title	Tower Bolt
Die No.	Kps/2027/1920



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Tower Bolt



WT. IN kg/12'
0.7000.800

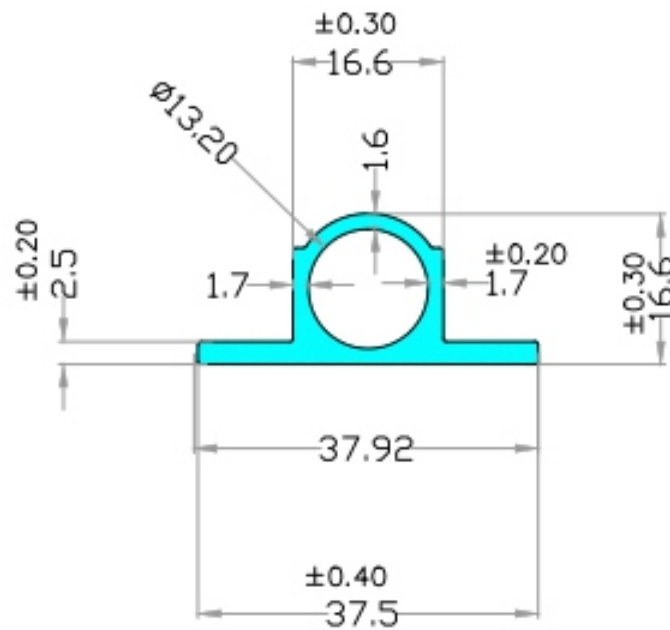
Title	Tower Bolt
Die No.	Kps/2029/1920



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Tower Bolt

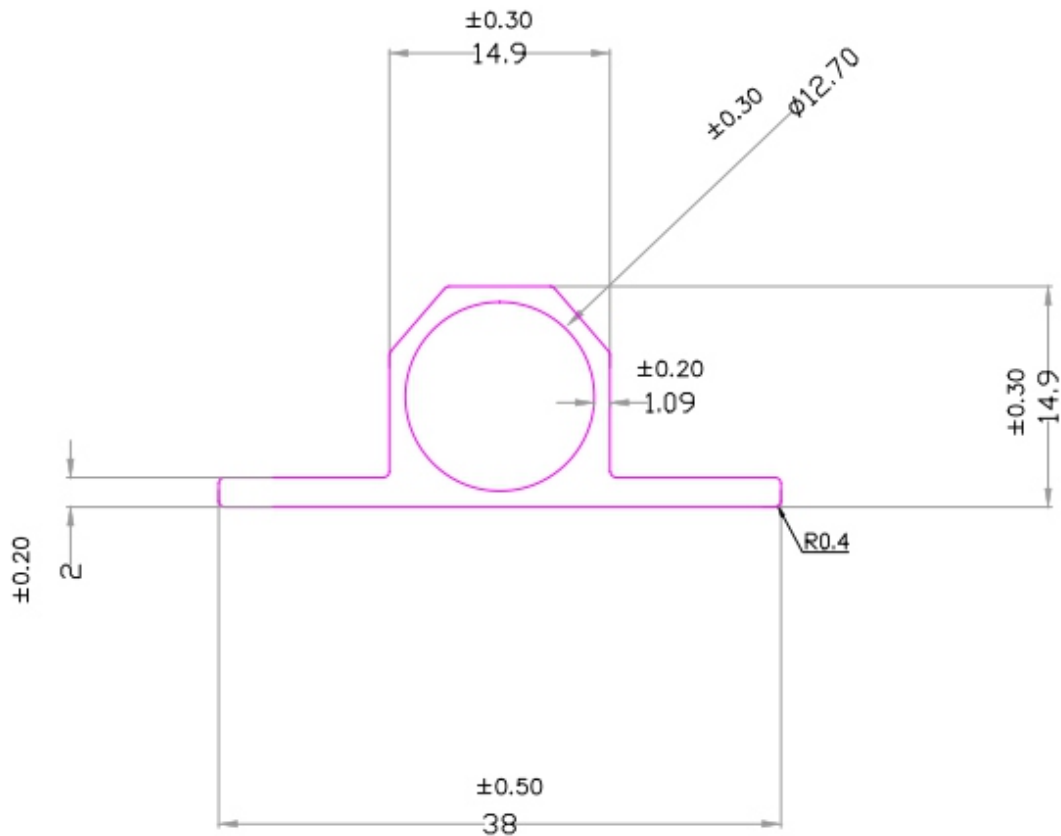


WT. IN kg/12'
1.600-1.800

Title	Tower Bolt
Die No.	Kps/2007/1920



Tower Bolt

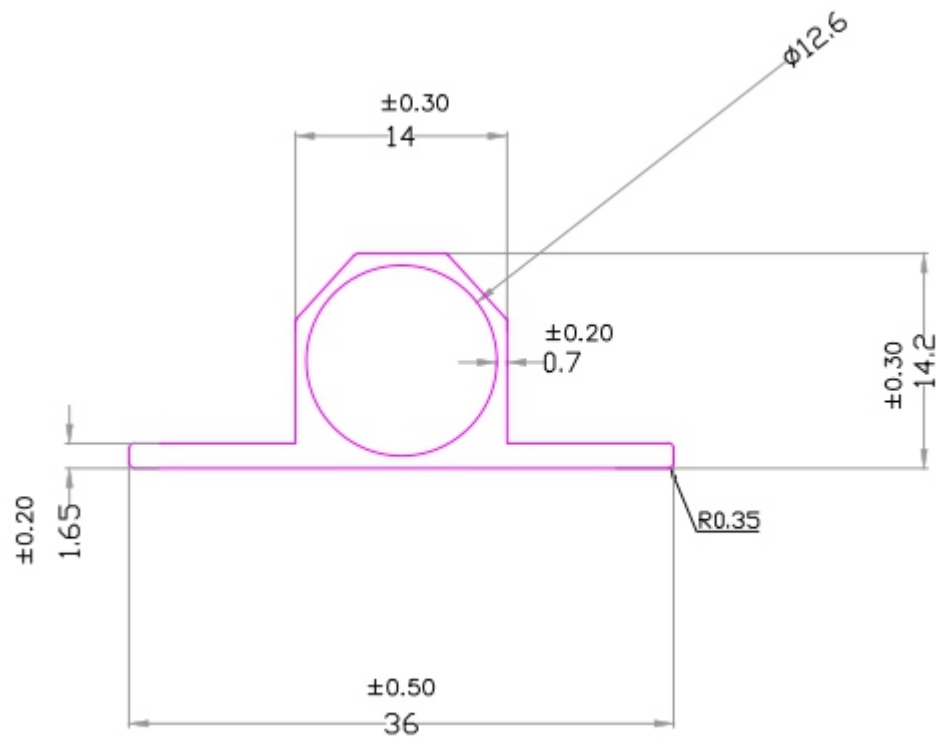


WT. IN kg/12'
1.200-1.400

<u>Title</u>	TOWER BOLT
<u>Die No.</u>	<u>Kps/2008/19-20</u>



Tower Bolt

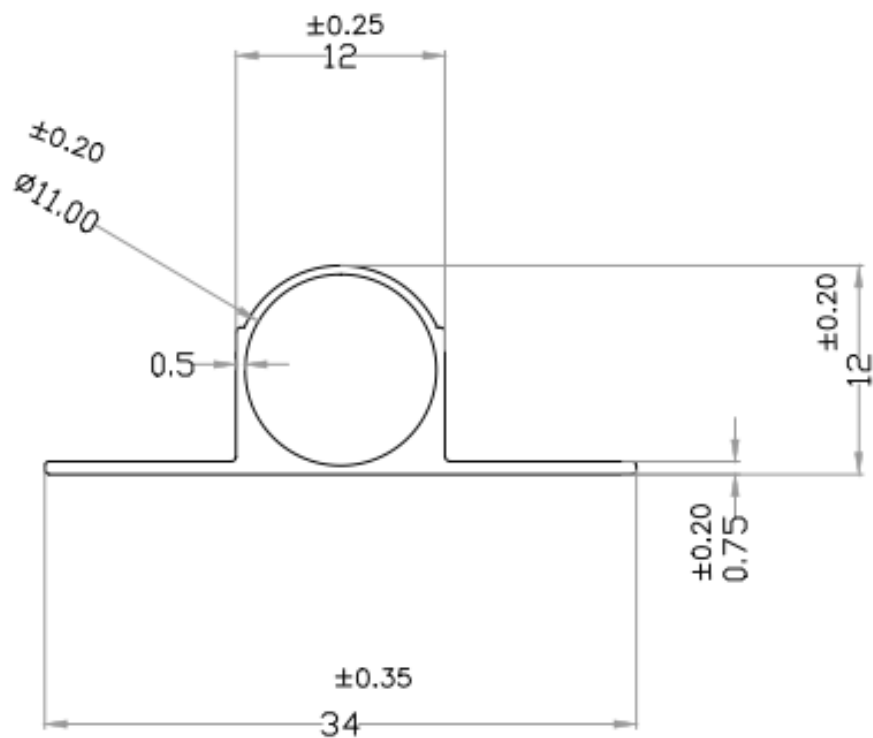


WT. IN kg/12'
0.900-1.000

Title	Tower Bolt
Die No.	Kps/2010/19-20



Tower Bolt

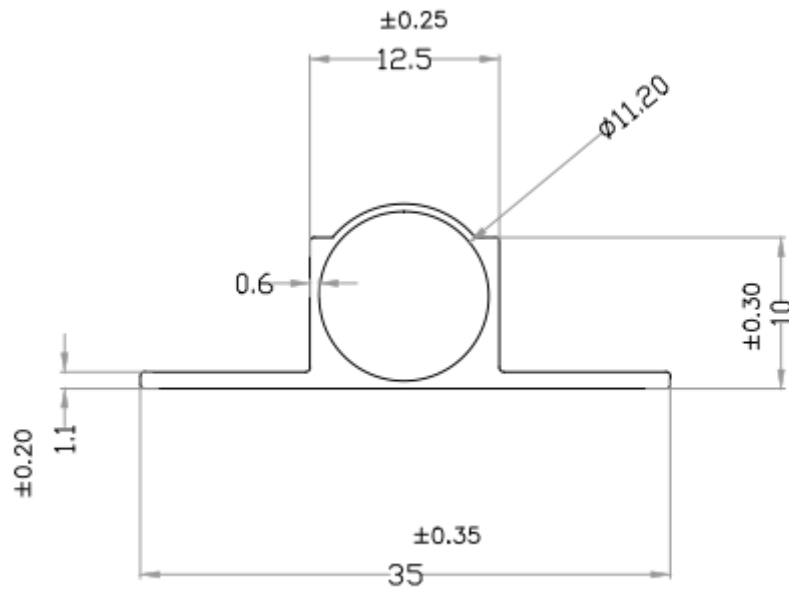


WT. IN 12'
0.500-0.600

Title	Tower Bolt
Die No.	Kps/2026/19-20



Tower Bolt

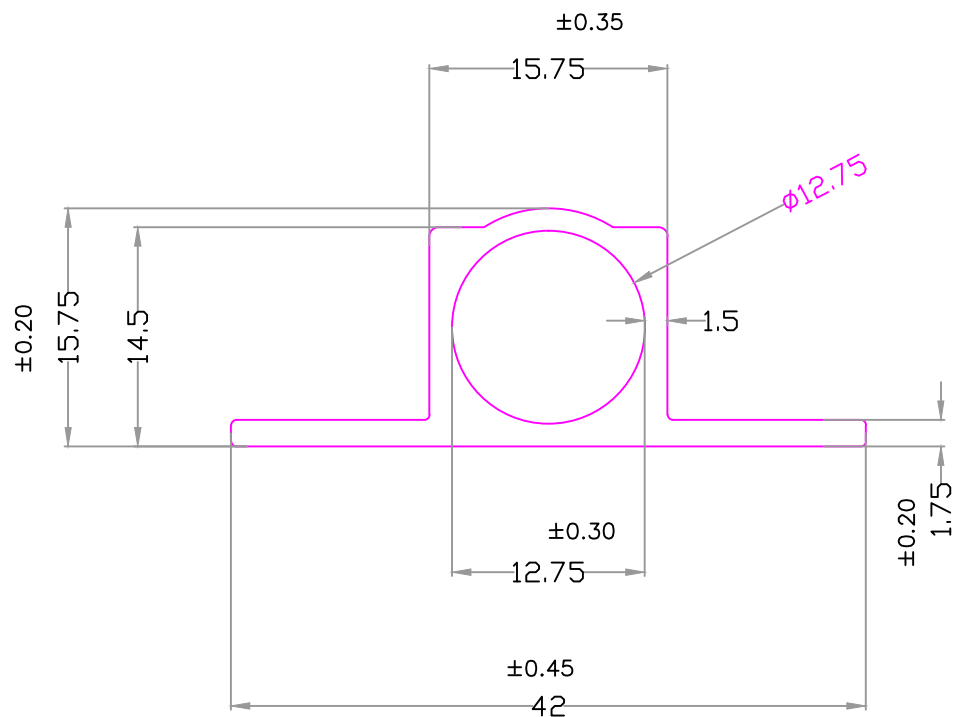


WT. IN 12'
0.600-0.700

Title	Tower Bolt
Die No.	Kps/2028/19-20



Tower Bolt



WT. IN 12'
1.400-1.600

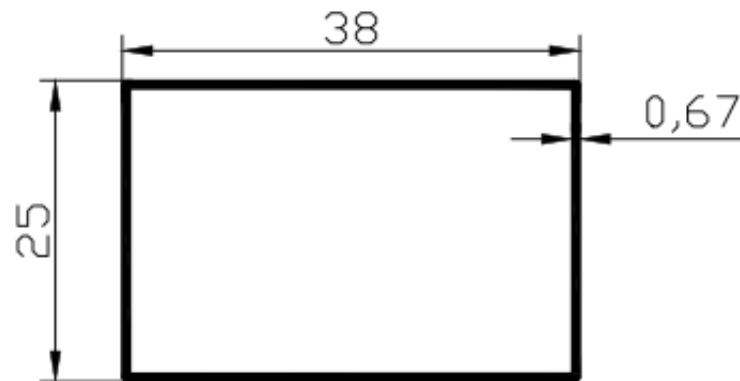
Title	Tower Bolt
Die No.	Kps/2050/19-20



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38x25 Rectangle Tube



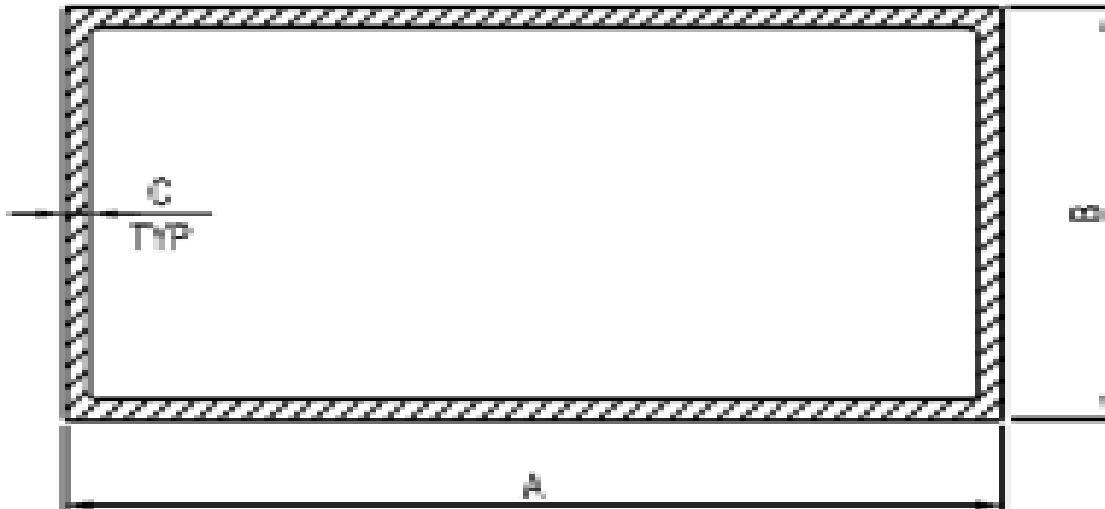
WT. IN kg/12'
0.900-1.000
1.000-1.200
1.200-1.400
1.400-1.600
1.600-1.800
1.800-2.000
2.800-3.000



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50x25 Rectangle Tube



WT. IN 12'
1.000-1.200
1.200-1.400
1.400-1.600
1.600-1.800
1.800-2.000
2.000-2.200
2.200-2.400
2.800-3.000



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63x25 Rectangle Tube



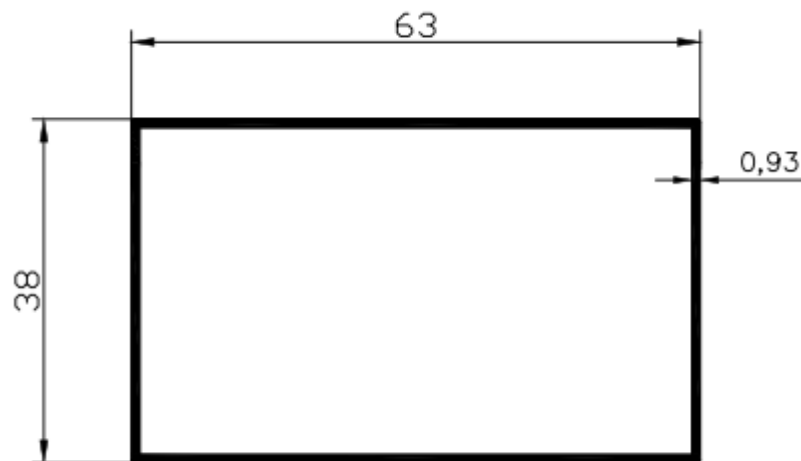
WT. IN 12'
1.400-1.600
1.600-1.800
1.800-2.000



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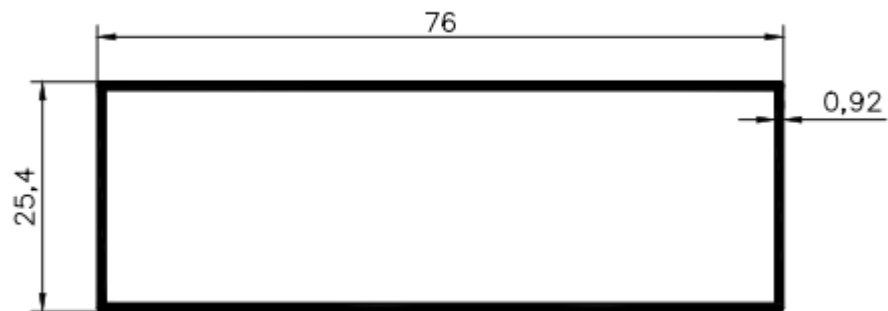
63x38 Rectangle Tube



WT. IN kg/12'
1.600-1.800
1.800-2.000
2.000-2.200
2.200-2.400
2.600-2.800
3.000-3.200
3.600-3.800
4.000-4.200



76x25 Rectangle Tube



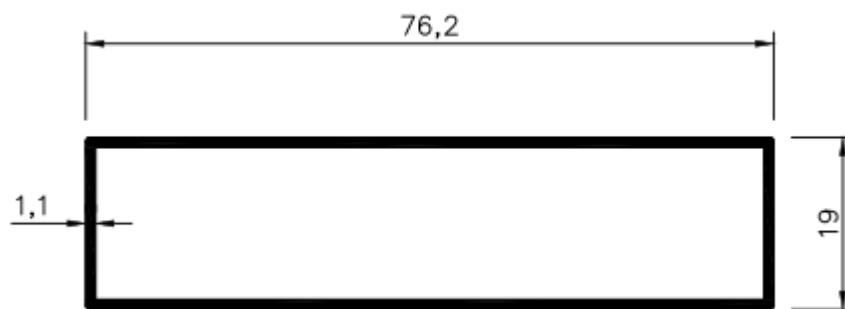
WT. IN kg/12'
1.800-2.000
2.000-2.200
2.600-2.800
3.000-3.200



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76x19 Rectangle Tube



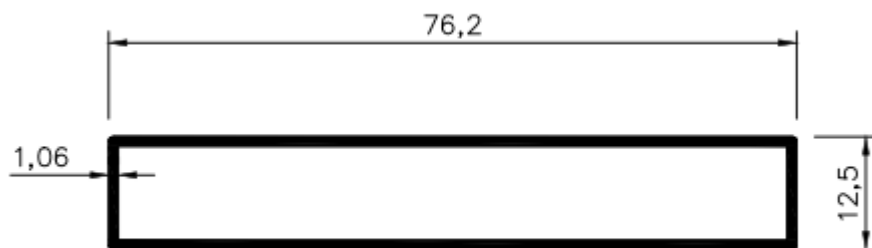
WT. IN kg/12'
2.000-2.200



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76x12.5 Rectangle Tube



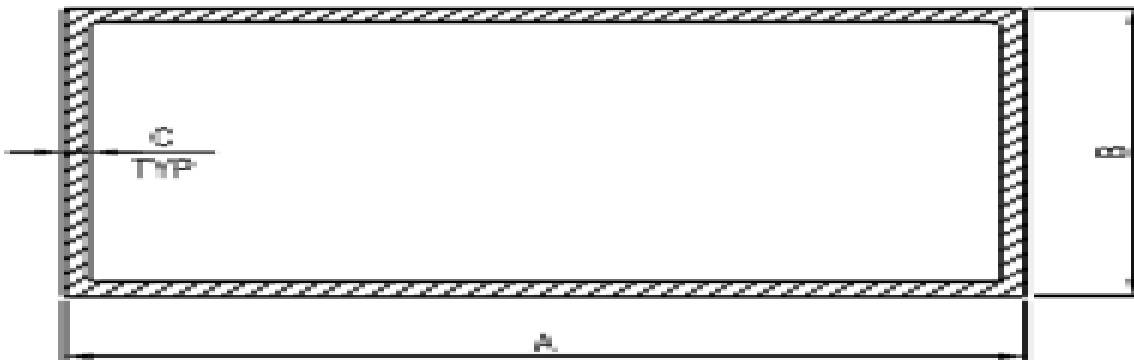
WT. IN kg/12'
1.800-2.00
2.200-2.400
2.800-3000



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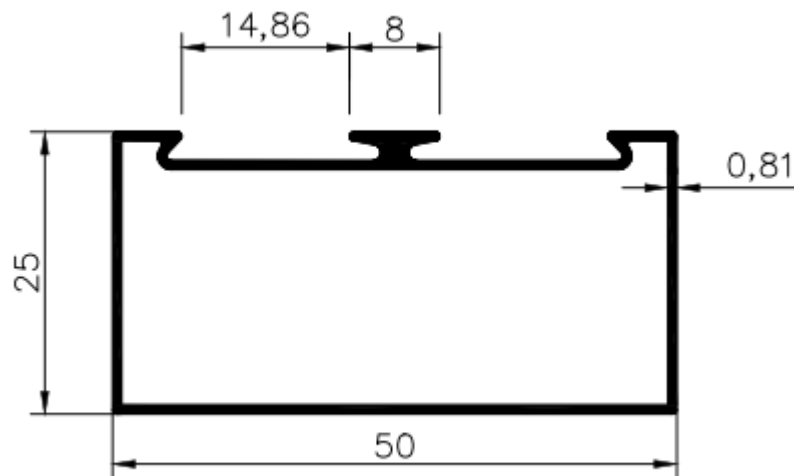
101x25 Rectangle Tube



WT. IN kg/12'
2.000-2.200
2.400-2.600
2.800-3.000
3.200-3.400
3.800-4.000



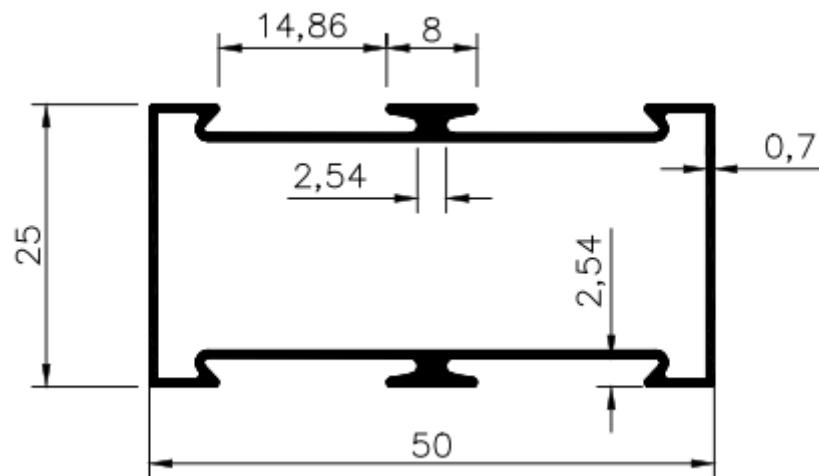
50x25 Single Partition



WT. IN kg/12'
1.400-1.600
1.800-2.000
2.200-2.400



50x25 Double Partition



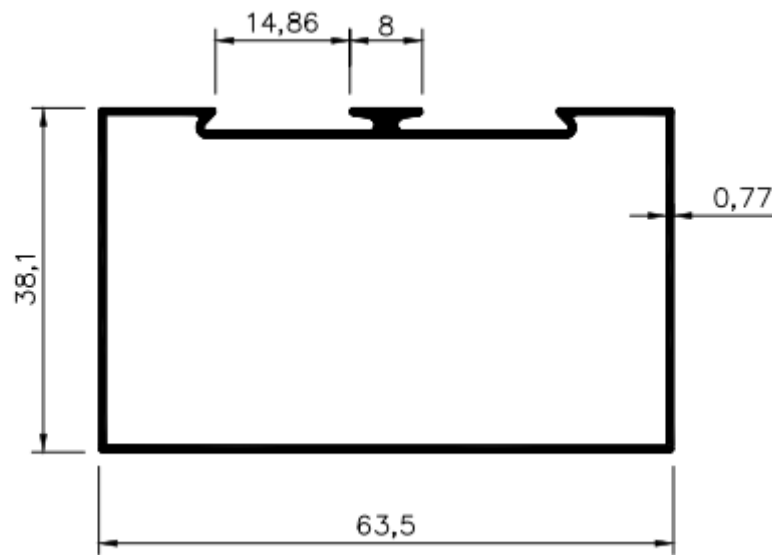
WT. IN kg/12'
1.400-1.600
1.600-1.800



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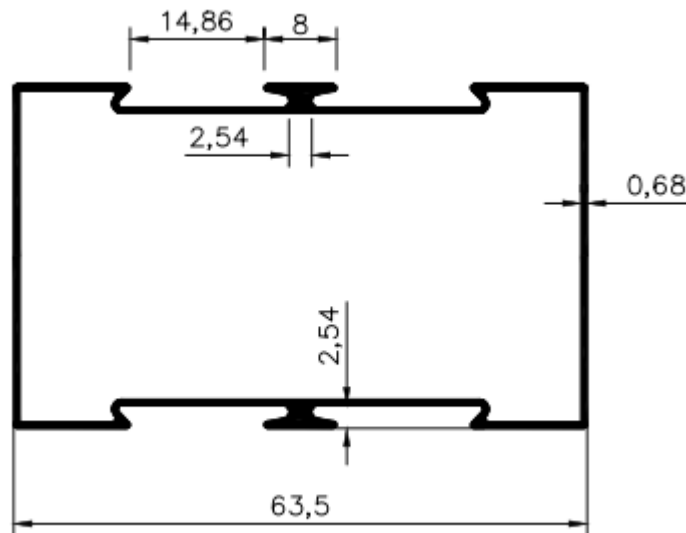
63x38 Single Partition



WT. IN 12'
1.800-2.000
2.000-2.200
2.200-2.400
2.400-2.600
2.600-2.800
2.800-3.000
3.000-3.200
3.800-4.000



63x38 Double Partition



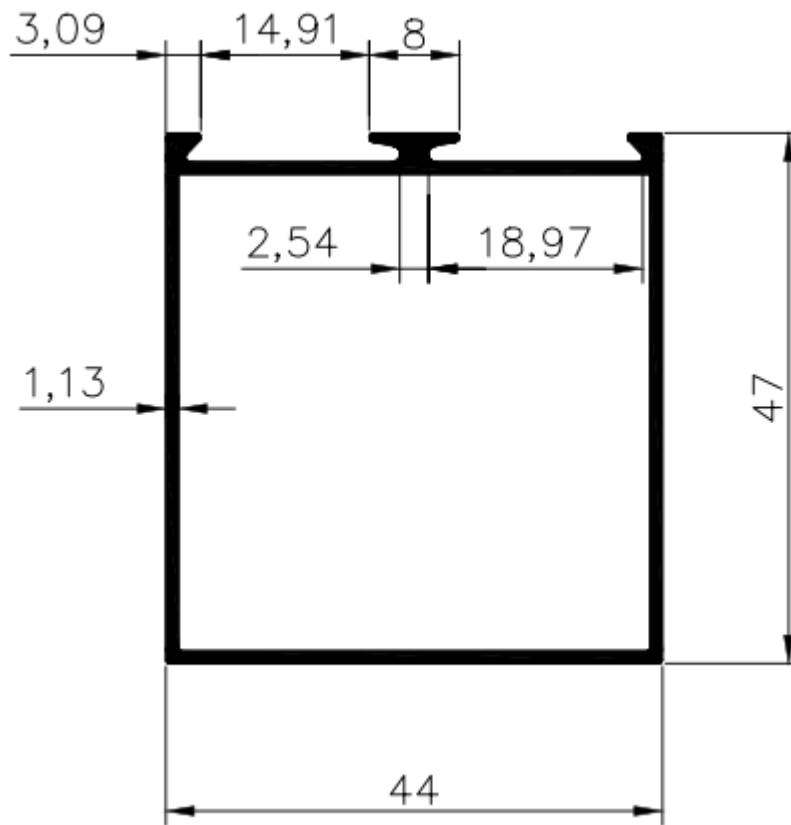
WT. IN 12'
1.800-2.000
2.000-2.200
2.200-2.400
2.400-2.600
2.600-2.800
2.800-3.000
3.000-3.200
3.800-4.000
4.000-4.200



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47x44 Door Middle Single



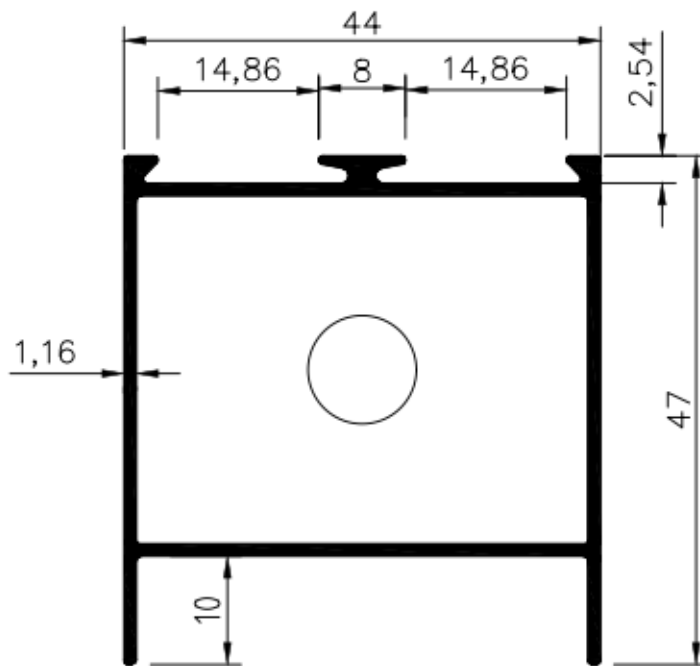
WT. IN 12'
2.000-2.200
2.200-2.400
2.600-2.800
2.800-3000
3.000-3.200



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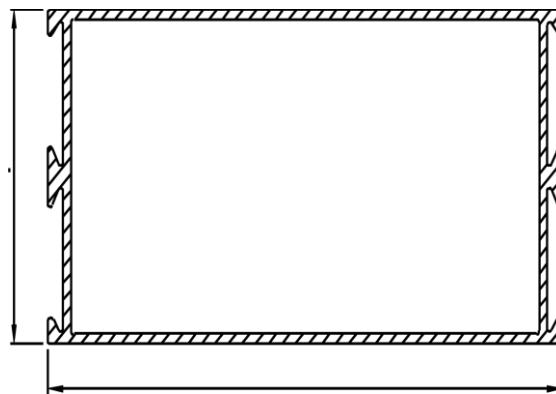
47x44 Door Top



WT. IN 12'
2.200-2.200
2.200-2.400
2.400-2.600
2.600-2.800
2.800-3.000
3.000-3.200



47x44 Door Middle Double



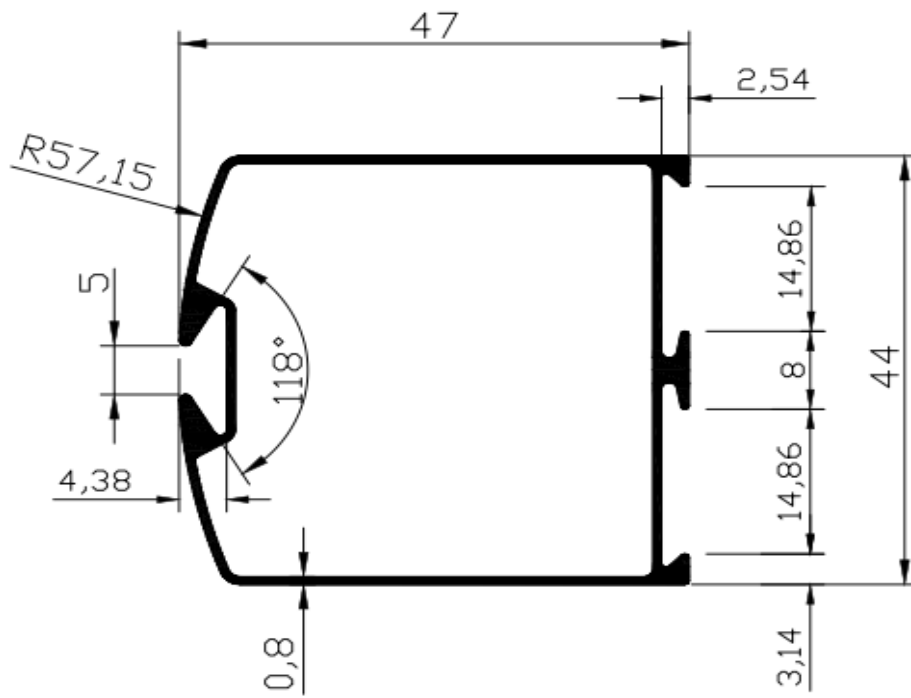
WT. IN 12'
2.000-2.200
2.200-2.400
2.400-2.600
2.600-2.800
2.800-3.000



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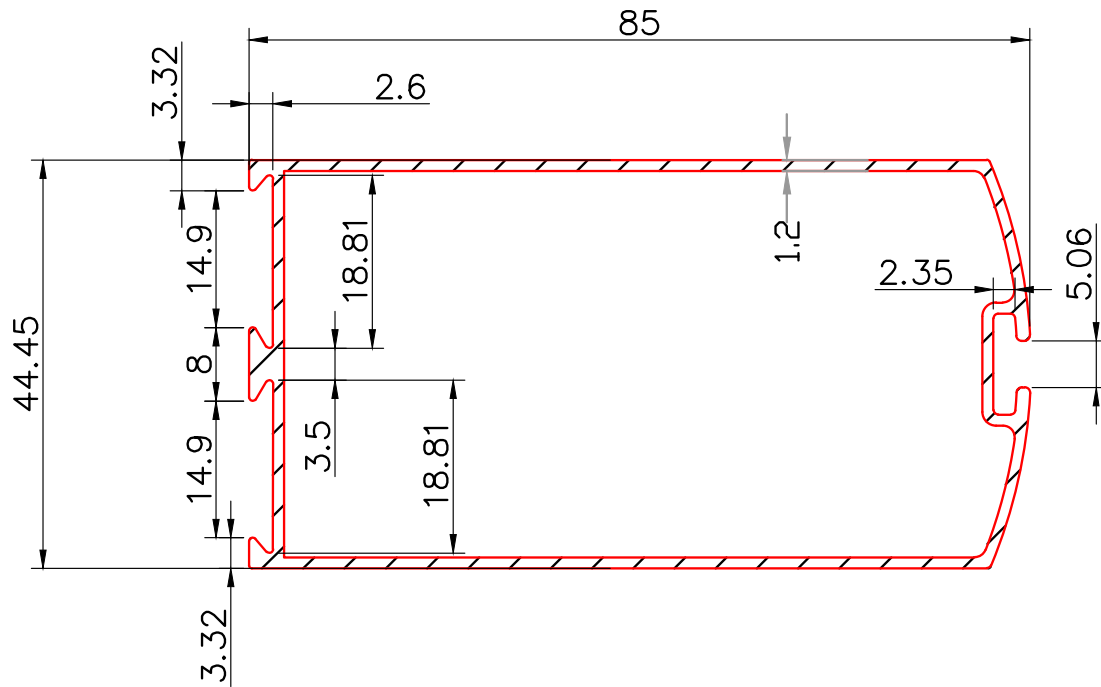
47x44 Door Vertical



WT. IN 12'
2.000-2.200
2.200-2.400
2.400-2.600
2.600-2.800
2.800-3.000
3.000-3.200



85x44 Door Vertical

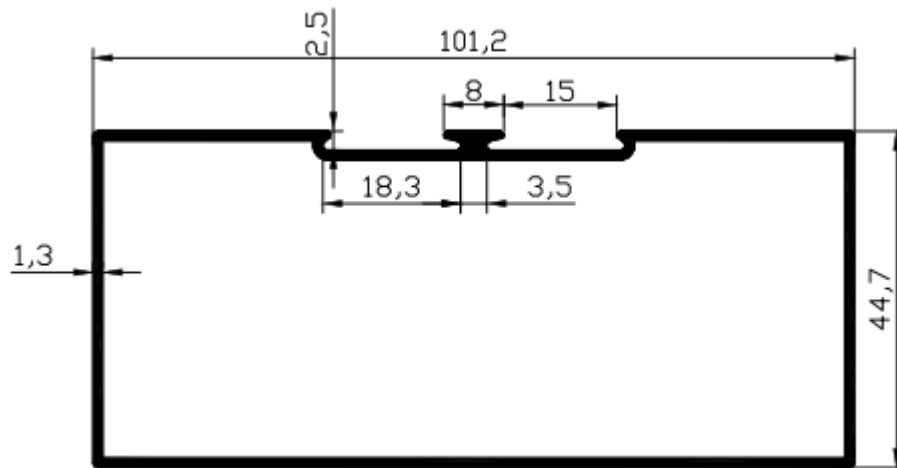


WT. IN 12'
3.400-3.600

Title	85X44 D.V.
Die No.	Kps/2042/19-20



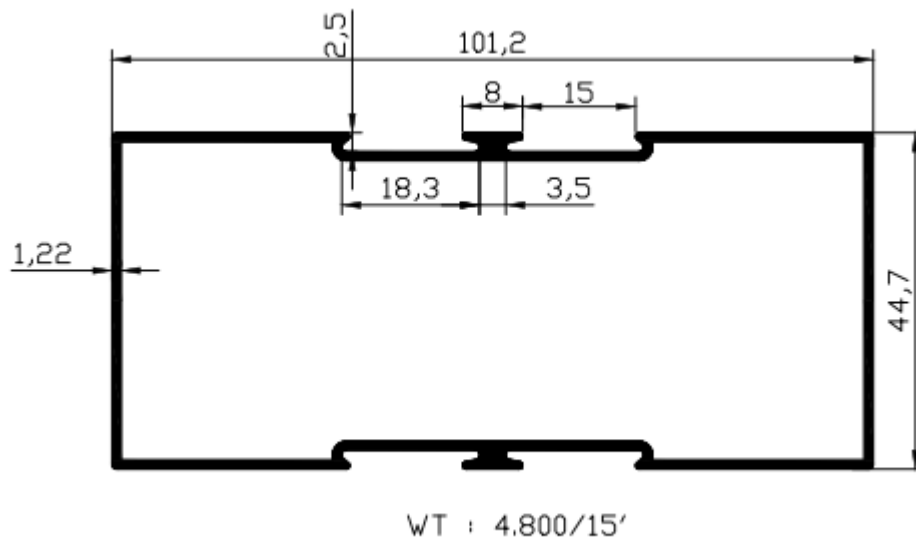
101x44 Single Partition



WT. IN kg/12'
4.000-4.200
4.200-4.400
4.400-4.600
4.600-4.800
4.800-5.000



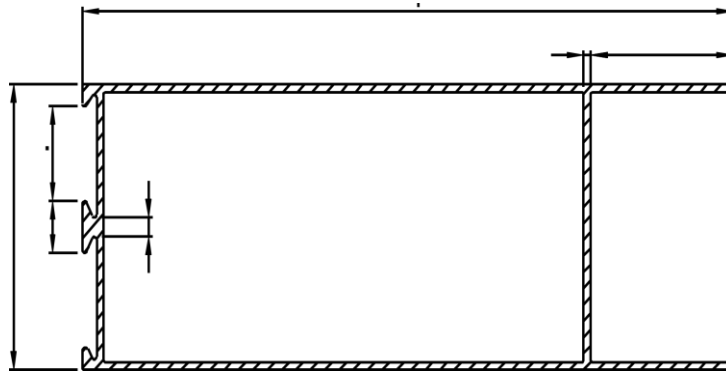
101x44 Double Partition



WT. IN kg/12'
4.000-4.200
4.200-4.400
4.400-4.600
4.600-4.800
4.800-5.000



114x44 Door Bottom



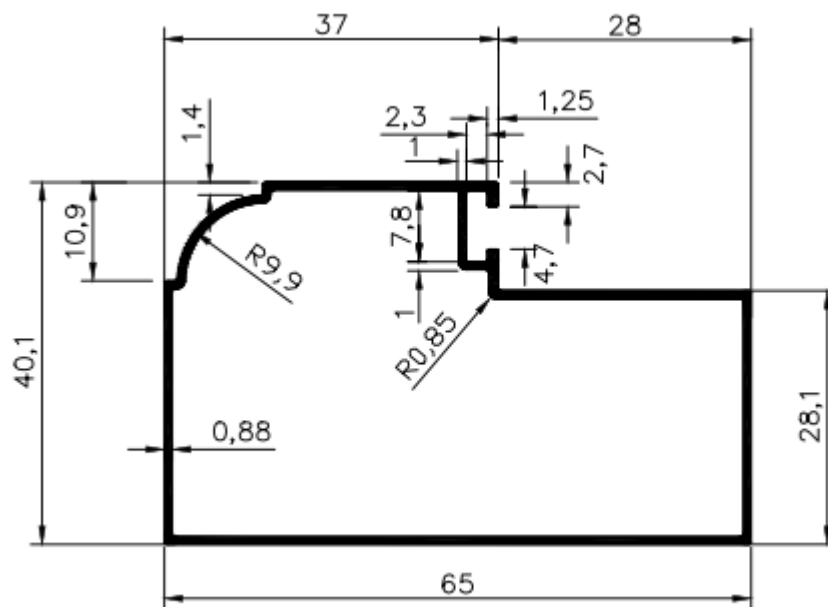
WT. IN 12'
3.800-4.000
4.400-4.600



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2.5x1.5 Molding



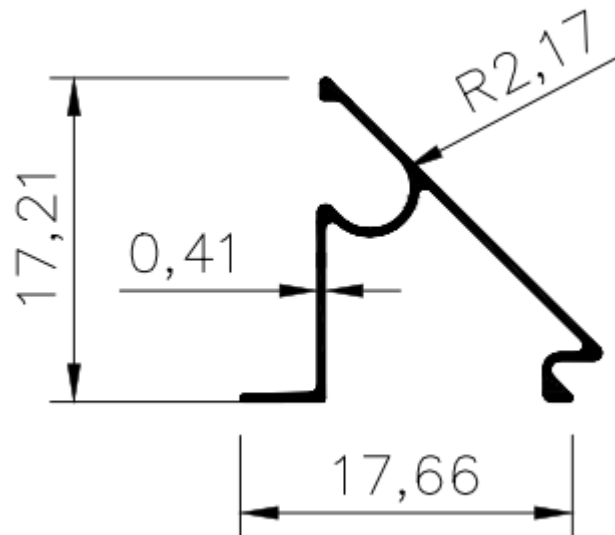
WT. IN kg/12'
1.800-2.000
2.000-2.200
2.200-2.400
2.600-2.800



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Glazing Clip



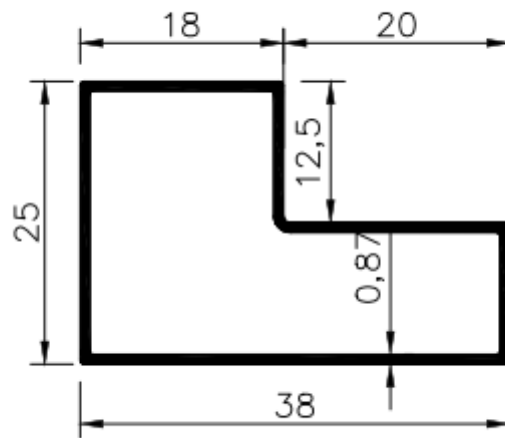
WT. IN 12'
0.250-0.300
0.300-0.350
0.350-0.400
0.400-0.500



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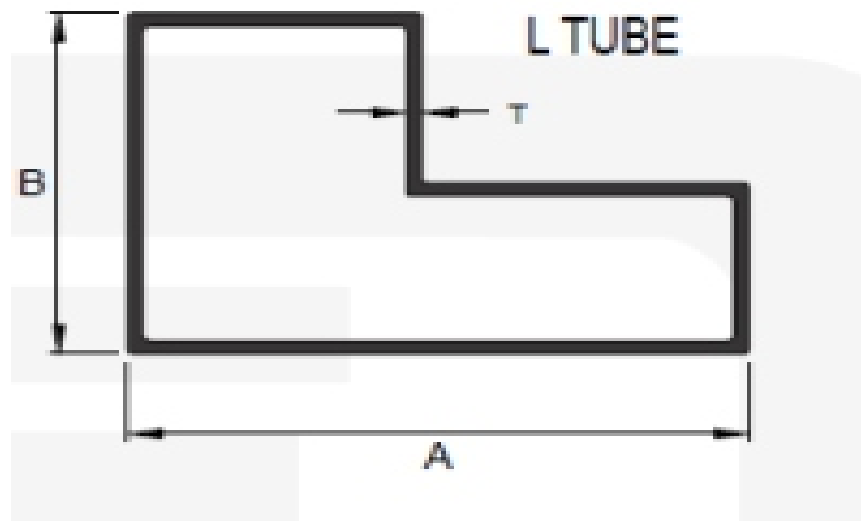
38x25 L –Pipe



WT. IN 12'
0.900-1.000
1.000-1.200
1.200-1.400
1.400-1.600
1.600-1.800
1.800-2.000



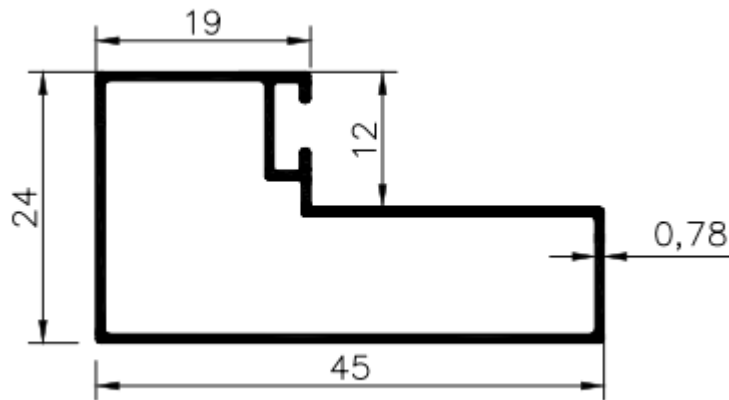
50x25 L-pipe



WT. IN kg/12'
1.200-1.400
1.600-1.800
2.000-2.200



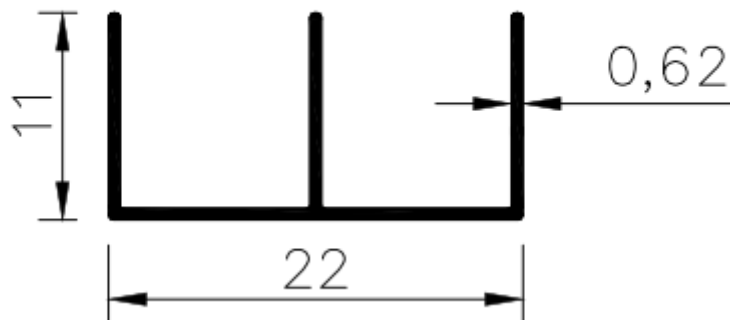
2x1 L Tube with Group



WT. IN 12'
1.000-1.200



E - Channel / DGC

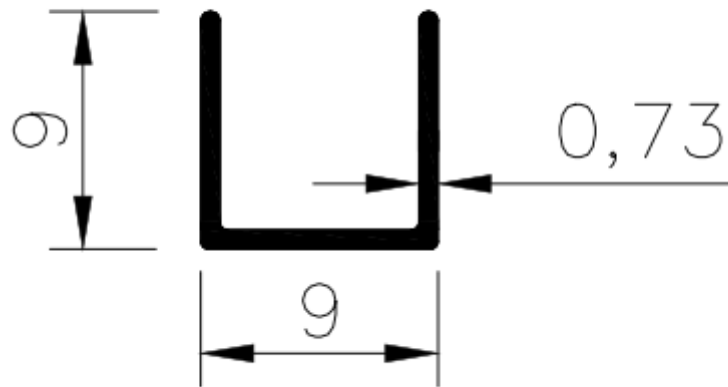


WT. IN 12'
0.300-0.400

Title	E-Channel / DGC
Die No.	Kps/1214/18-19



9x9 U-Channel



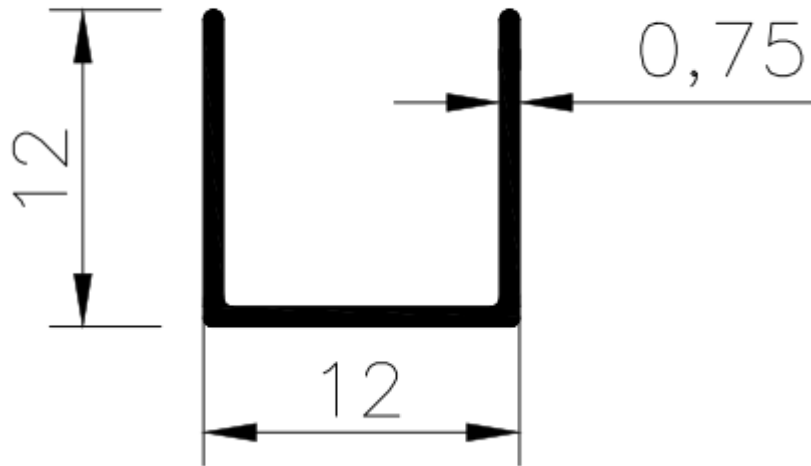
WT. IN kg/12'
0.160-0.200
0.200-0.250
0.250-0.300



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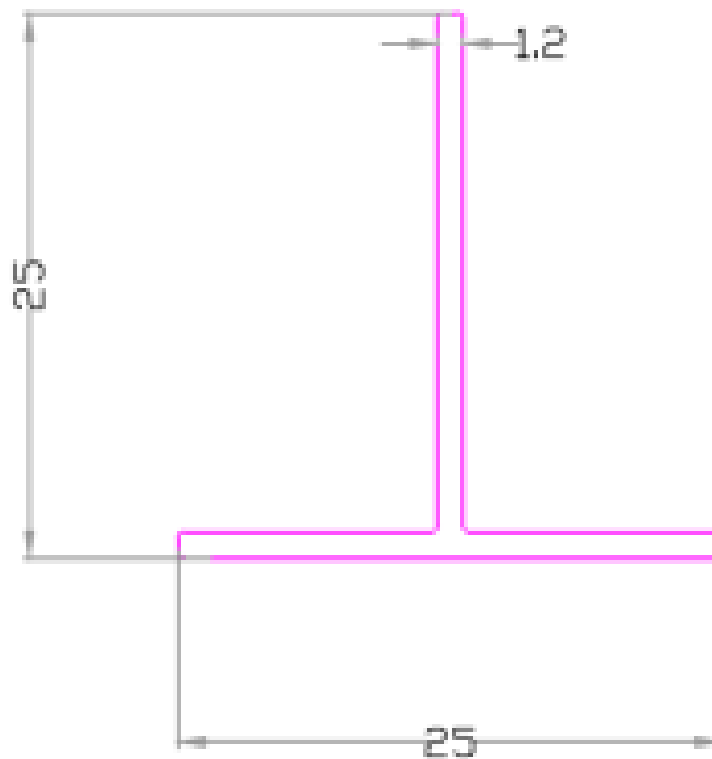
12x12 U-Channel



WT. IN kg/12'
0.180-0.200
0.200-0.250
0.250-0.300



25x25x1.2 mm T-Patti

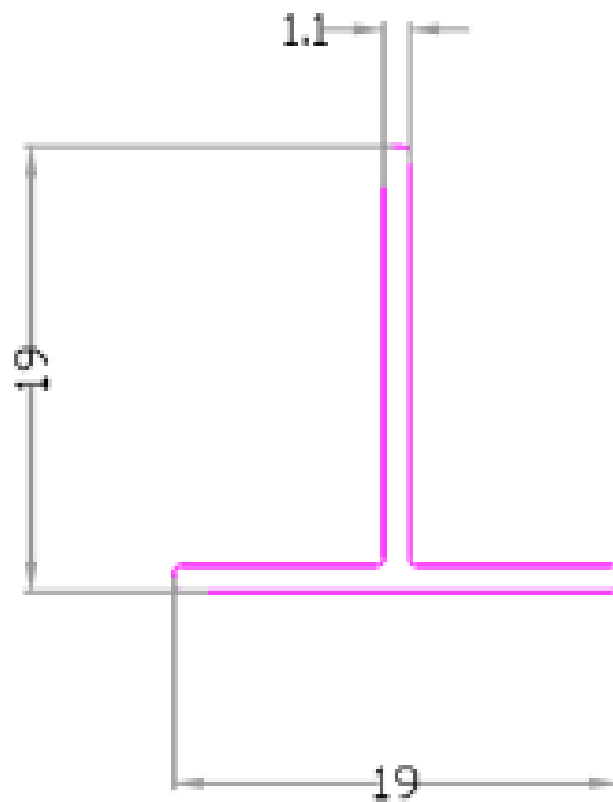


WT. IN 12'
0.550-0.650

Title	T-Patti
Die No.	Kps/2052/19-20



19x19x1.1 mm T-Patti

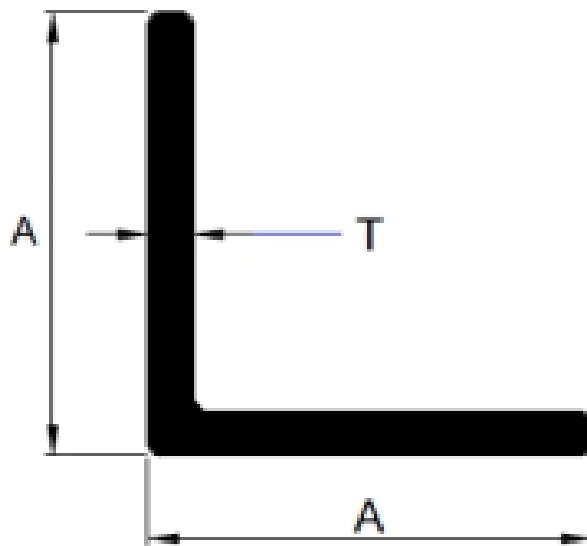


WT. IN 12'
0.400-0.500

Title	T-Patti
Die No.	Kps/2053/19-20



Equal Angle



A	B	T.	WT. IN 12'
18	18	1.5	0.500-0.600
25	25	3	1.400-1.600
25	25	2.5	1.200-1.400
25	25	2	0.900-1.000
50	50	4	3.800-4.000
75	75	4	5.800-6.000
60	60	4	4.600-4.800
38	38	2	1.400-1.600
38	38	3	2.000-2.200
38	38	4	2.800-3.000
25	25	2.5	1.600-1.800



Unequal Angle



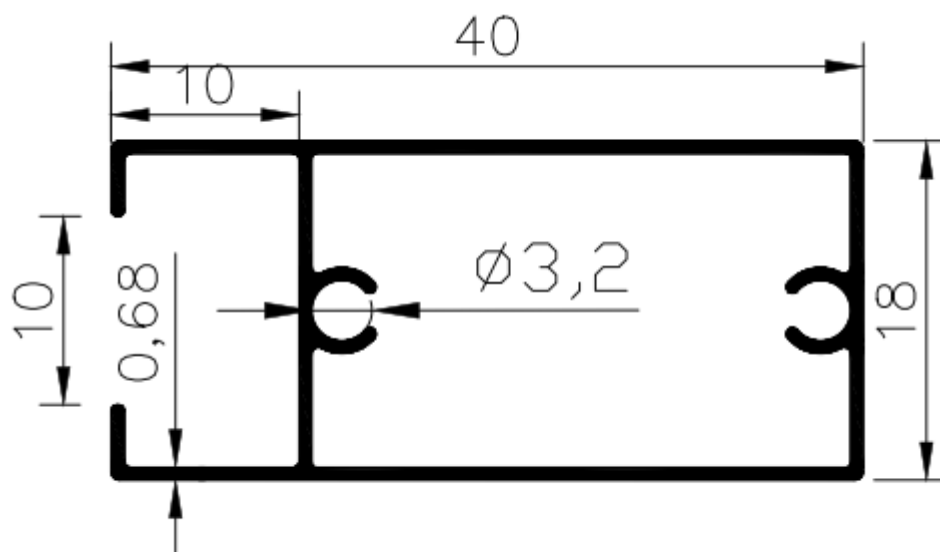
A	B	T.	WT. IN 12'
25	50	2	1.400-1.600
25	50	1.5	1.000-1.200
25	50	3	2.000-2.200
38	25	1.5	0.900-1.000
38	25	2	1.200-1.400
38	25	2.5	1.400-1.600
38	25	3	1.800-2.000



KPS

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Pvt. Ltd.

18 mm Handle



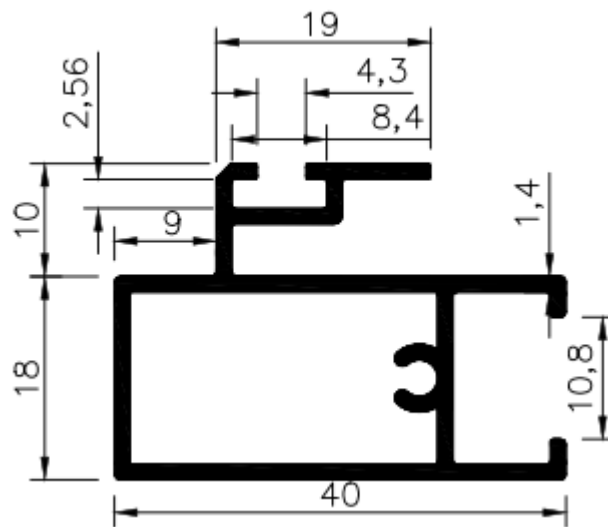
WT. IN 12'
0.900-1.000
1.000-1.200
1.200-1.400
1.400-1.600
1.600-1.800
1.800-2.000
2.000-2.200
2.200-2.400



KPS

Aluminium & Glass
Pvt. Ltd.

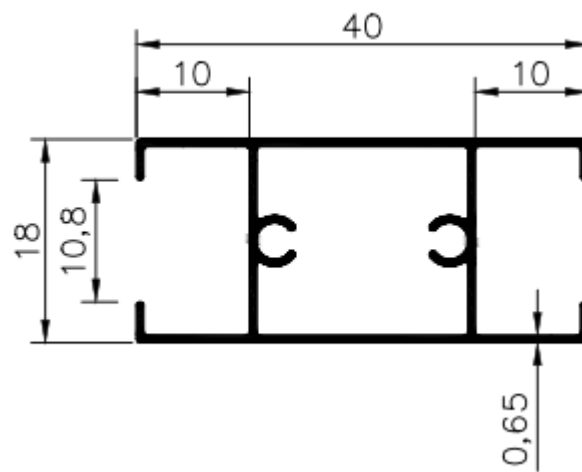
18 mm Inter Lock



WT. IN 12'
1.200-1.400
1.400-1.600
1.600-1.800
1.800-2.000
2.000-2.400



18 mm Middle



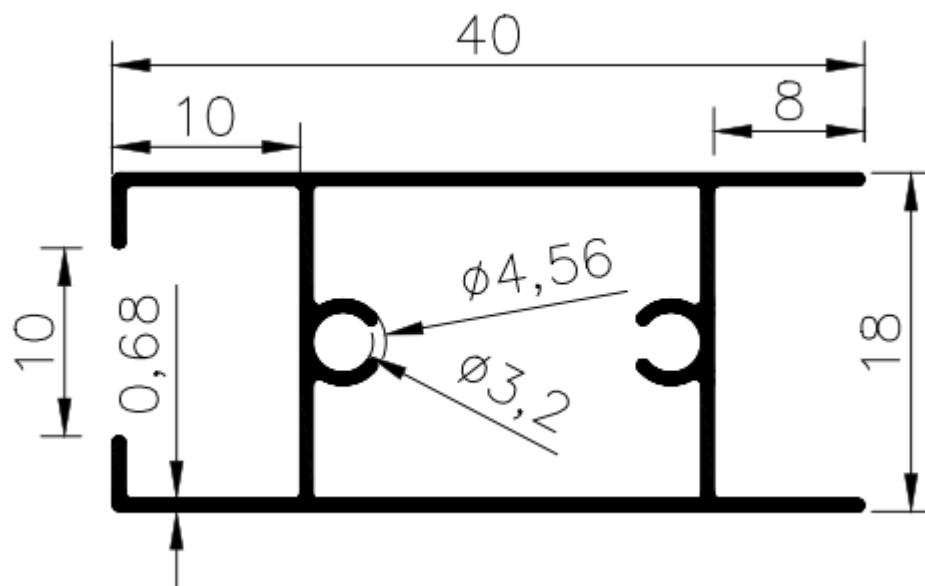
WT. IN kg/12'
0.900-1.000
1.000-1.200
1.200-1.400
1.400-1.600
1.600-1.800
1.800-2.000
2.000-2.200



KPS

Aluminium & Glass
Pvt. Ltd.

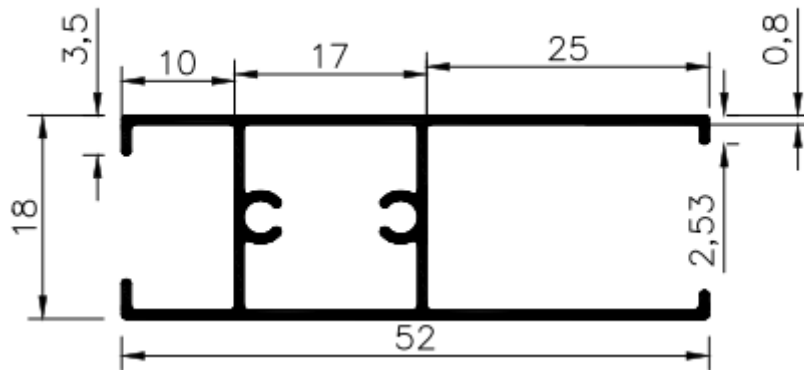
18 mm Top Bottom



WT. IN 12'
0.900-1.000
1.000-1.200
1.200-1.400
1.400-1.600
1.600-1.800
1.800-2.000
2.000-2.200
2.200-2.400



18 mm Bearing Bottom



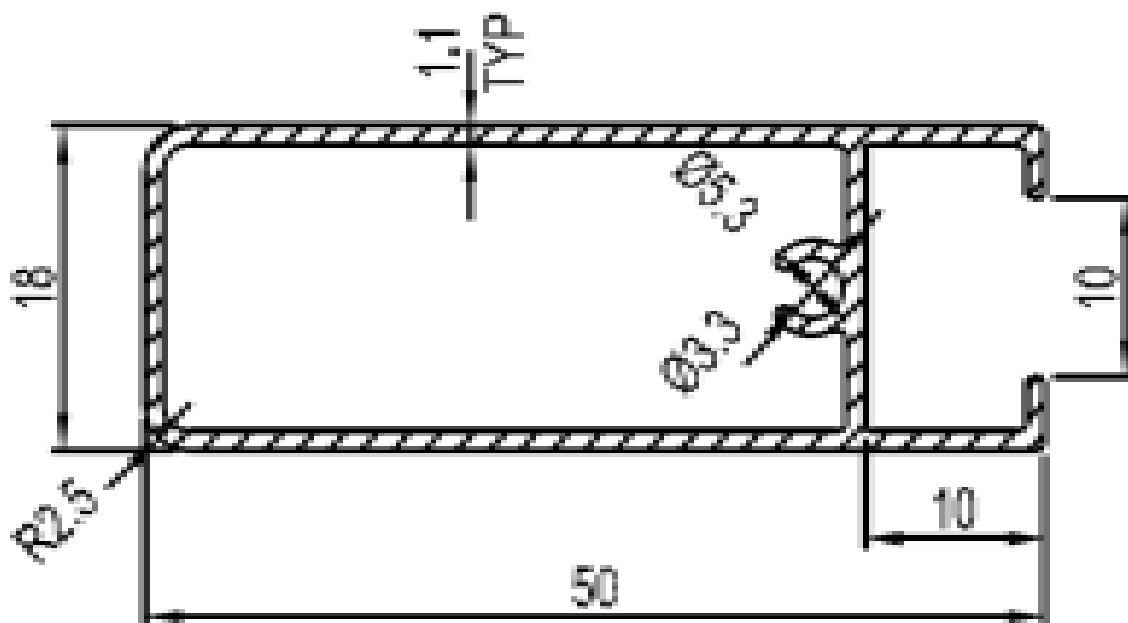
WT. IN kg/12'
1.200-1.400
1.400-1.600
1.600-1.800
1.800-2.000
2.000-2.200
2.200-2.400



KPS

Aluminium & Glass
Pvt. Ltd.

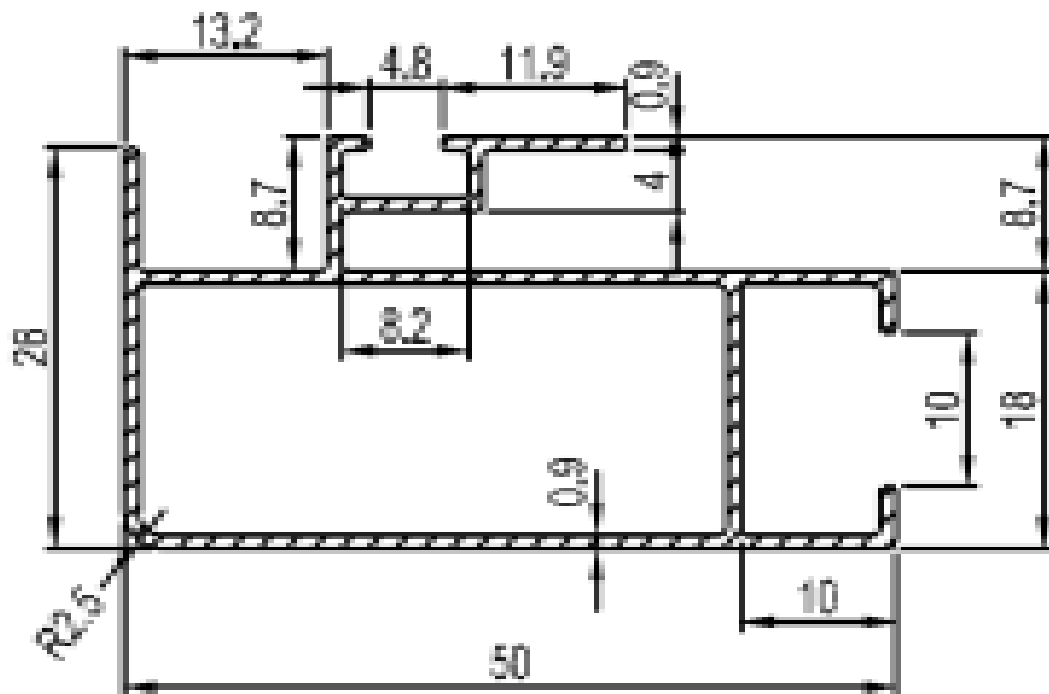
18x50 Handle Radius



WT. IN kg/12'

1.400-1.600

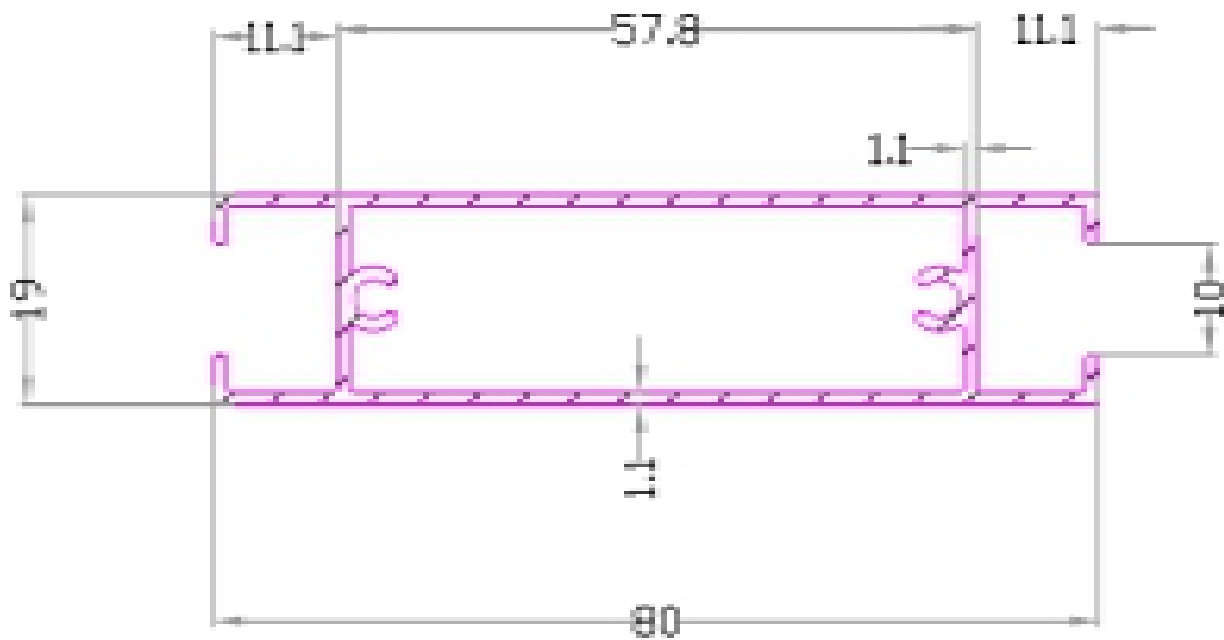
18x50 Inter Lock Radius



WT. IN kg/12'
1.600-1.800



18x19 Middle

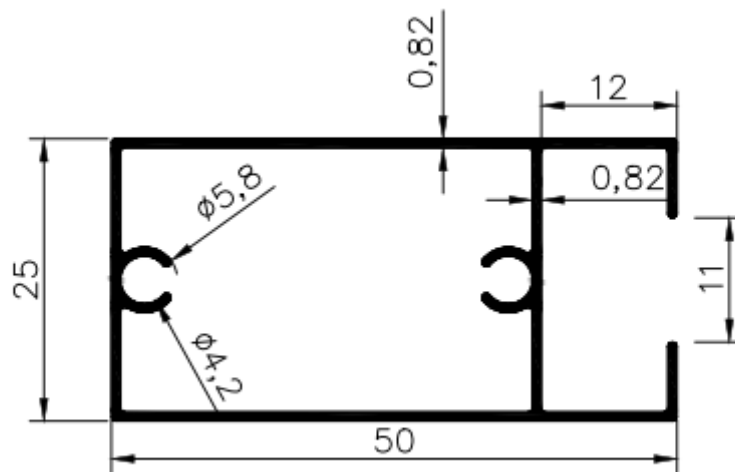


WT. IN 12'
2.400-2.600

Title	Tower Bolt
Die No.	Kps/2039/19-20



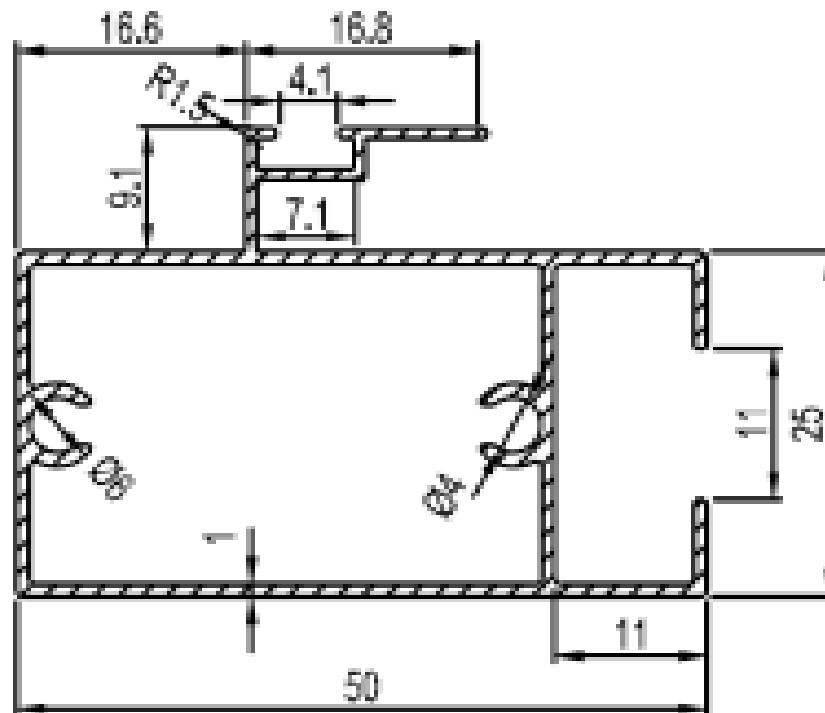
2x1 Handle



WT. IN kg/12'
1.400-1.600
1.600-1.800
1.800-2.000
2.000-2.200
2.200-2.400
2.400-2.600
2.800-3.000



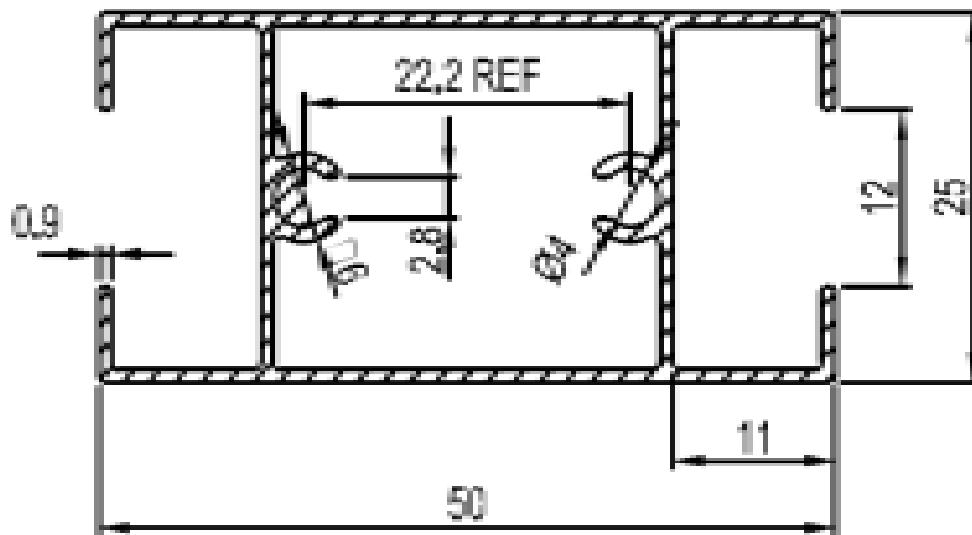
2x1 Inter Lock



WT. IN kg/12'
2.000-2.200
2.400-2.600



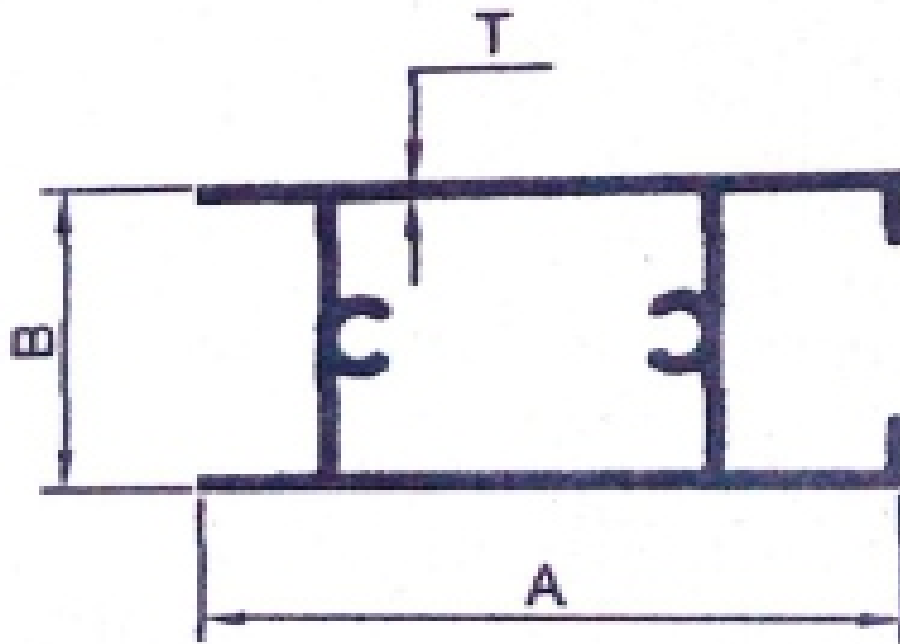
2x1 Middle



WT. IN kg/12'
1.400-1.600
2.200-2.400



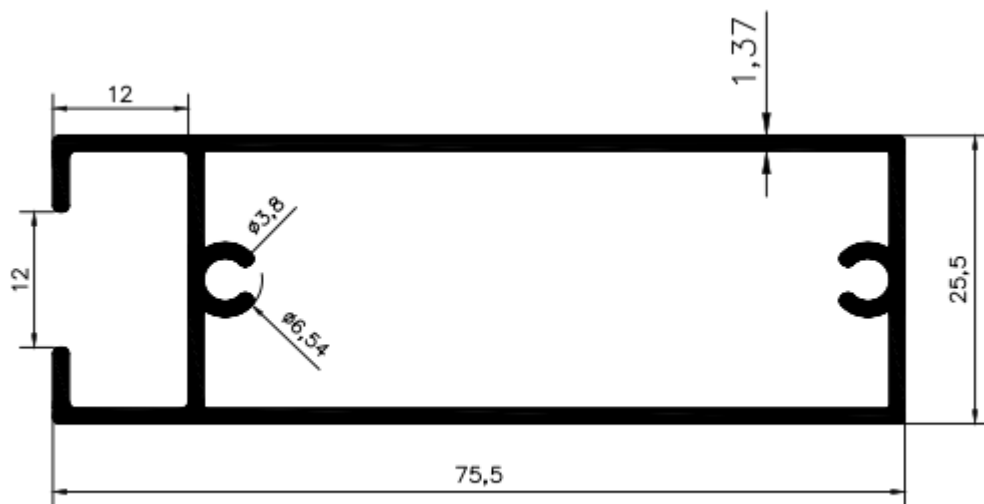
2x1 Top Bottom



WT. IN kg/12'
1.200-1.400
1.800-2.000



3x1 Handle



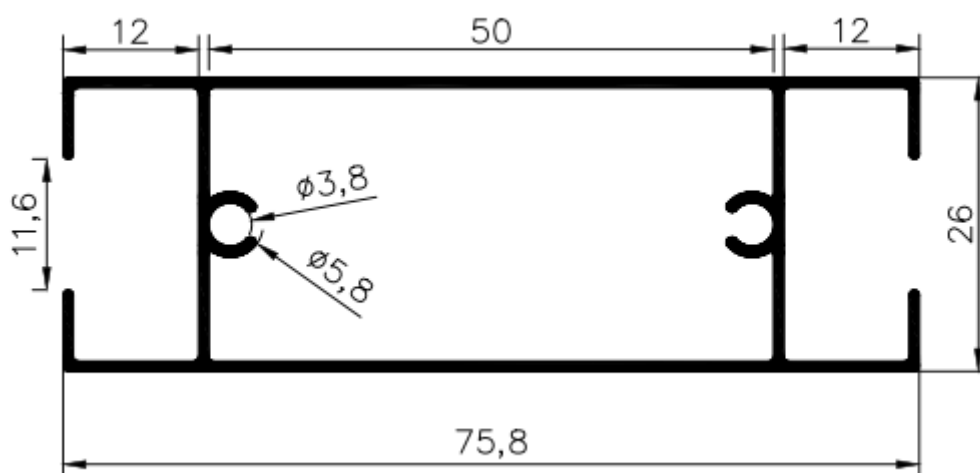
WT. IN kg/12'
2.000-2.200
2.400-2.600
2.800-3.000



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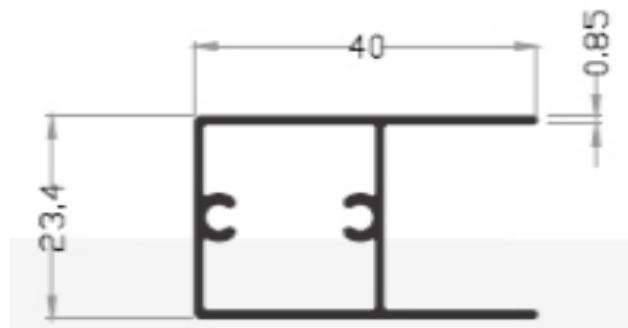
3x1 Middle



WT. IN kg/12'
2.000-2.200
2.400-2.600
2.800-3.000



Syntax 'A'

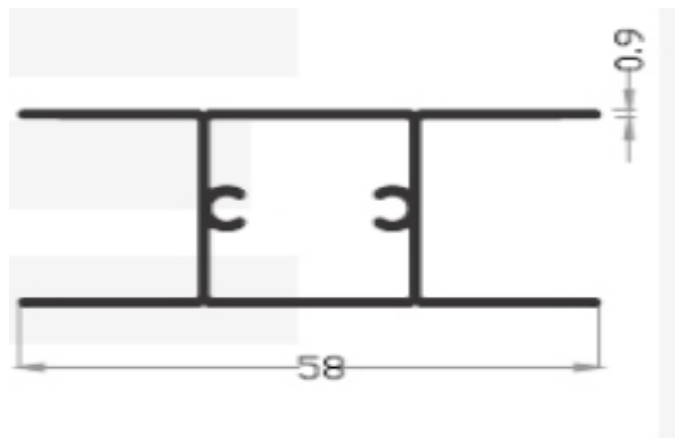


WT. IN kg/12'
0.800-0.900
1.000-1.200



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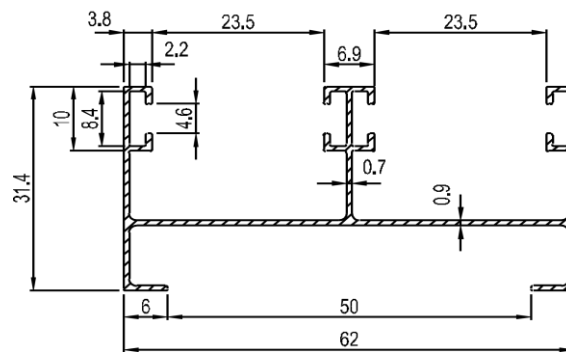
Syntax 'H'



WT. IN kg/12'
1.400-1.600



18 mm 2 Track Top



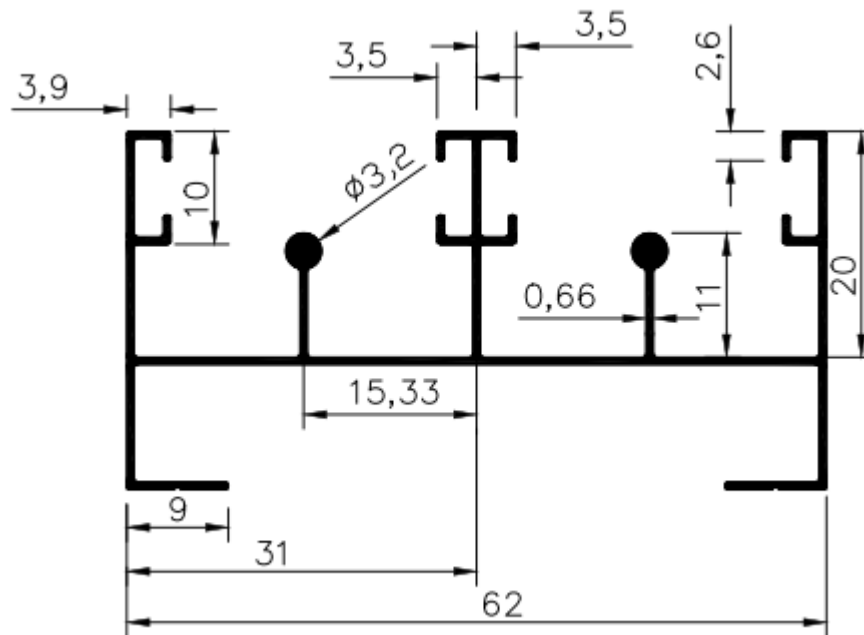
WT. IN 12'
1.400-1.600
1.600-1.800
1.800-2.000
2.000-2.200
2.200-2.400
2.800-3.000



KPS

Aluminium & Glass
Pvt. Ltd.

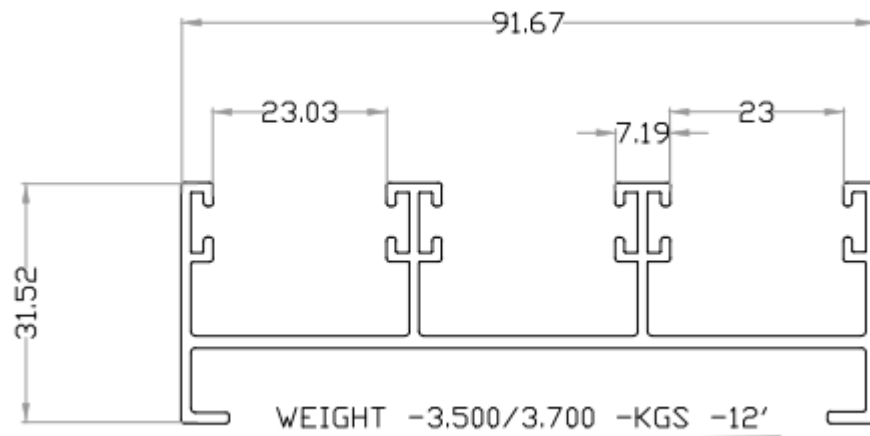
18 mm 2 Track Bottom



WT. IN kg/12'
1.600-1.800
1.800-2.000
2.000-2.200
2.200-2.400



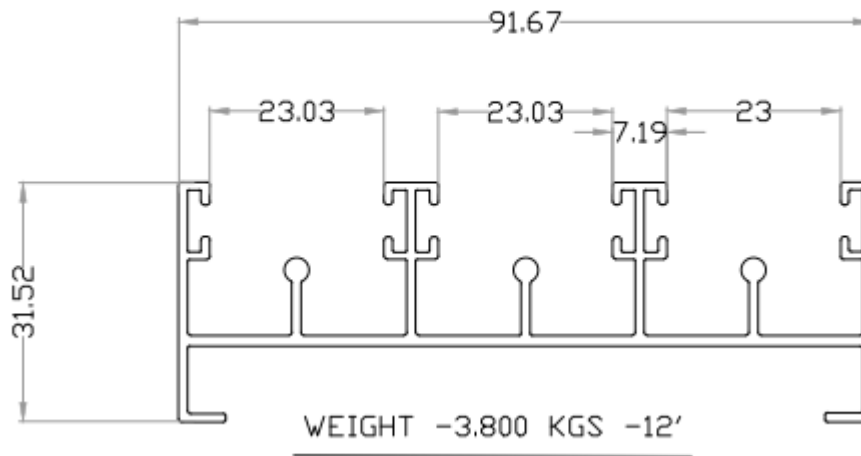
18mm 3 Track Top



WT. IN kg/12'
1.800-2.000
2.000-2.200
2.200-2.400
2.400-2.600
2.600-2.800
2.800-3.000
3.000-3.200
3.200-3.400
3.800-4.000
4.000-4.200



18 mm 3 Track Bottom



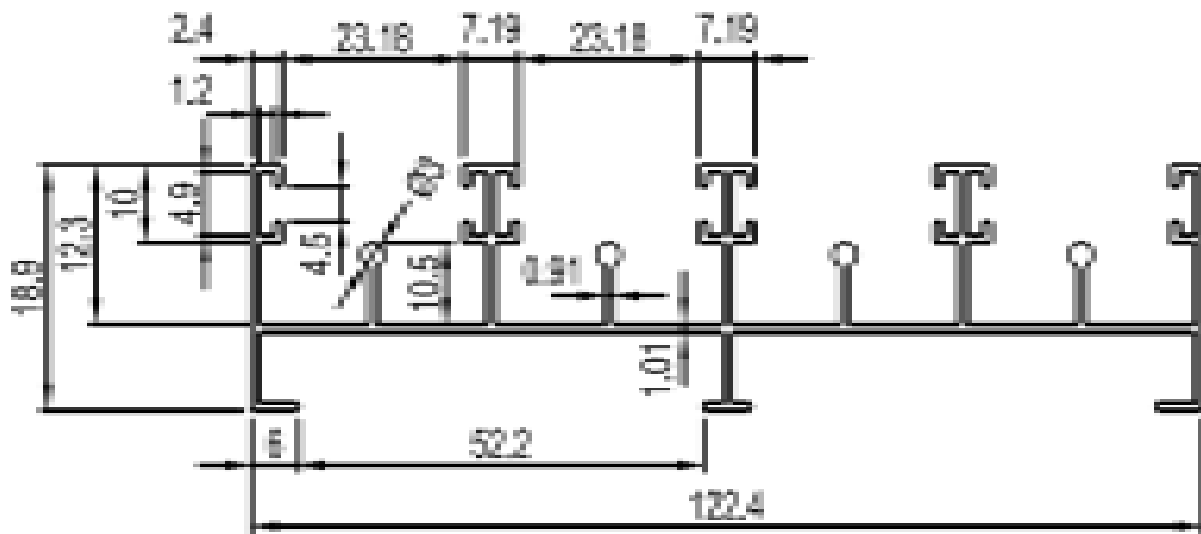
WT. IN kg/12'
2.000-2.200
2.200-2.400
2.400-2.600
2.600-2.800
2.800-3.000
3.000-3.200
3.600-3.800
4.200-4.400



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Pvt. Ltd.

18 mm 4 Track Bottom



WT. IN kg/12'

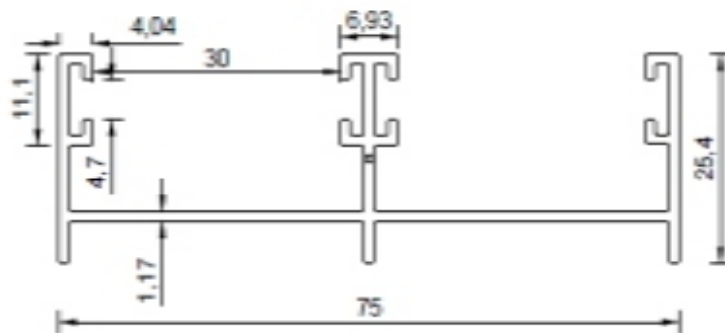
3.800-4.000



KPS

Aluminium & Glass
Pvt. Ltd.

1" 2 Track Top



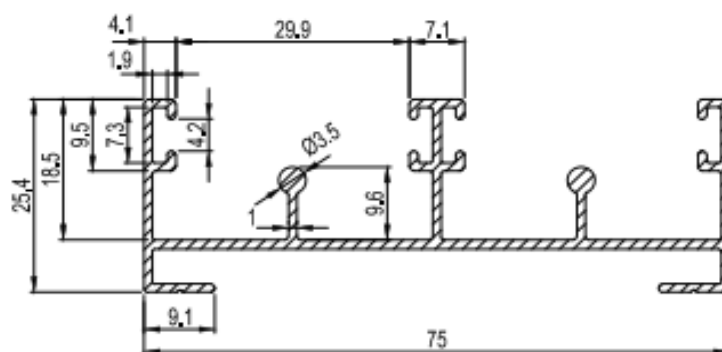
WT. IN kg/12'
2.000-2.200



KPS

Aluminium & Glass
Pvt. Ltd.

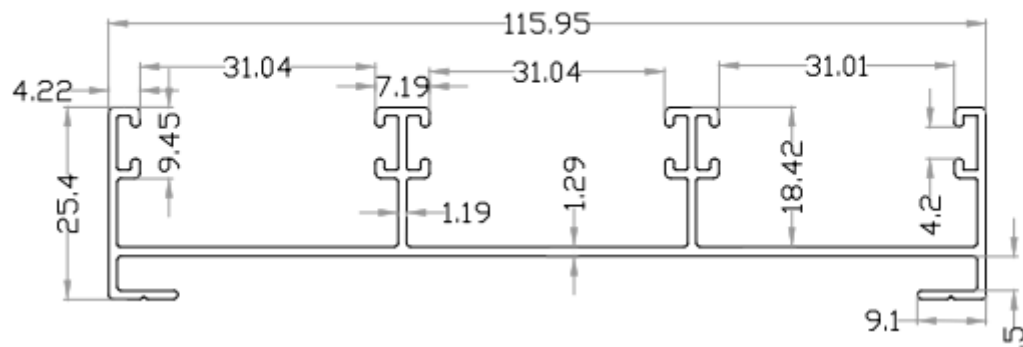
1" 2 Track Bottom



WT. IN kg/12'
2.400-2.600



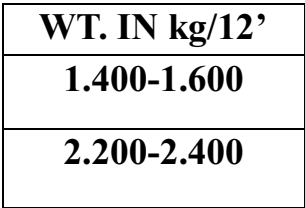
1" 3 Track Top



WT. IN kg/12'

3.200-3.400

3.600-3.800

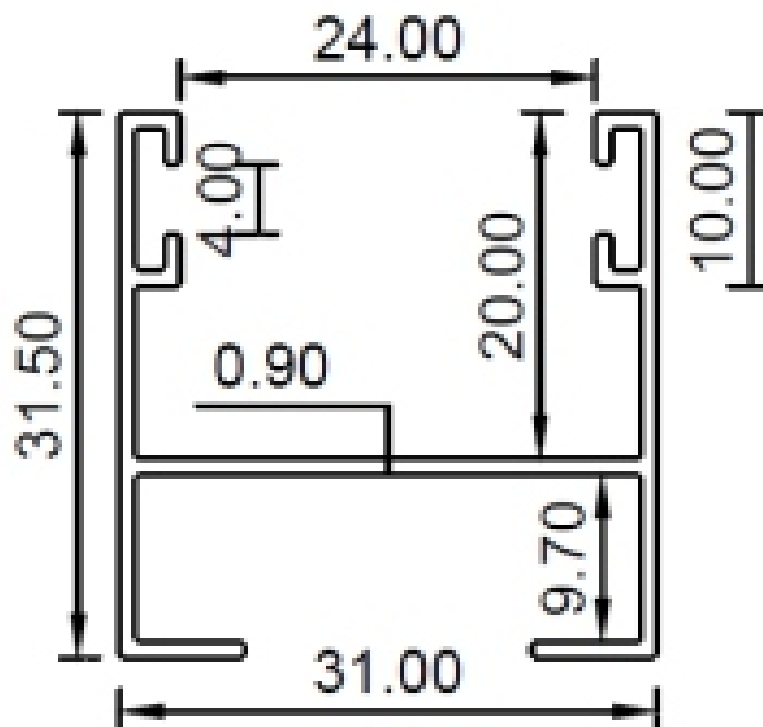




KPS

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Pvt. Ltd.

Single Track Top



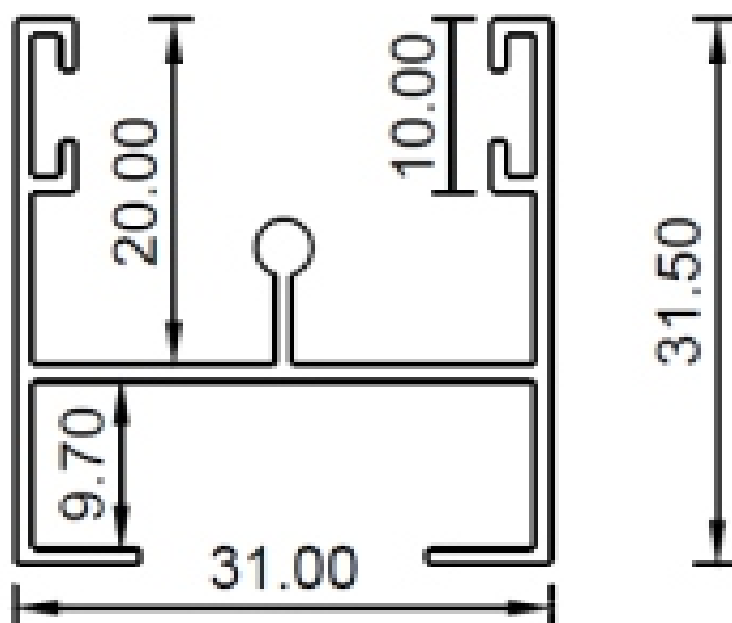
WT. IN kg/12'
1.000-1.200



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Single Track Bottom

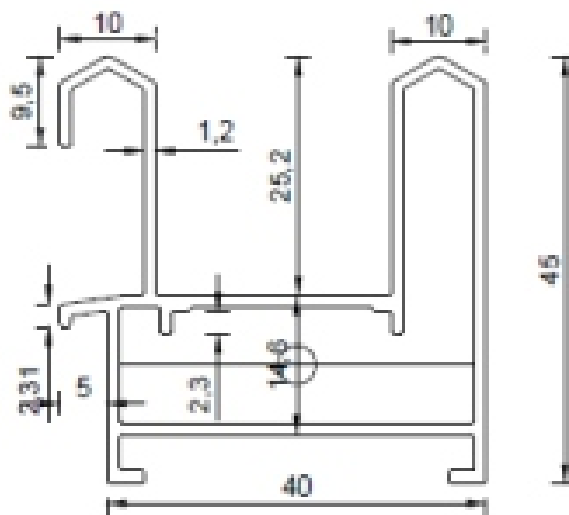


WT. IN kg/12'

1.200-1.400



Dumal 2 Track Top

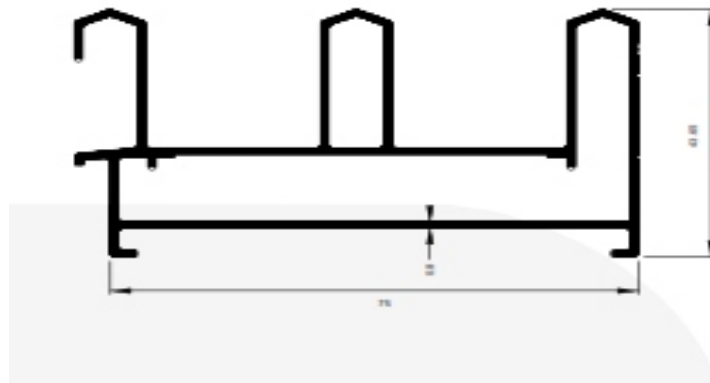


WT. IN kg/12'
2.400-2.600

Title	Dumal 2 Track Top
Die No.	Kps/2002/19-20

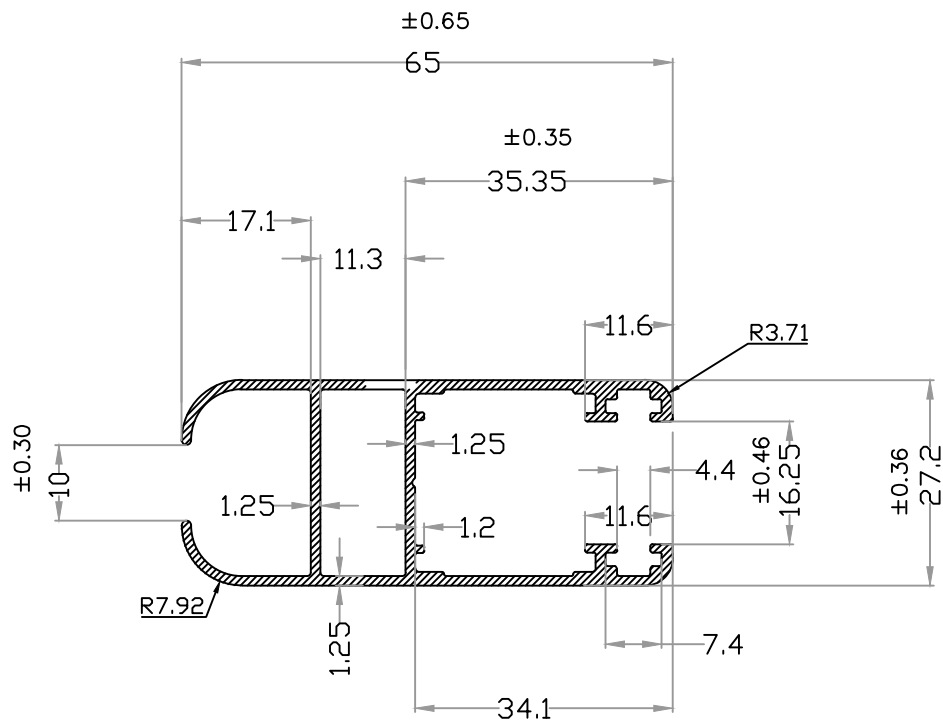


Dumal 3 Track Top



WT. IN kg/12'
3.800-4.000

Title	Dumal 3 Track Top
Die No.	Kps/2001/19-20

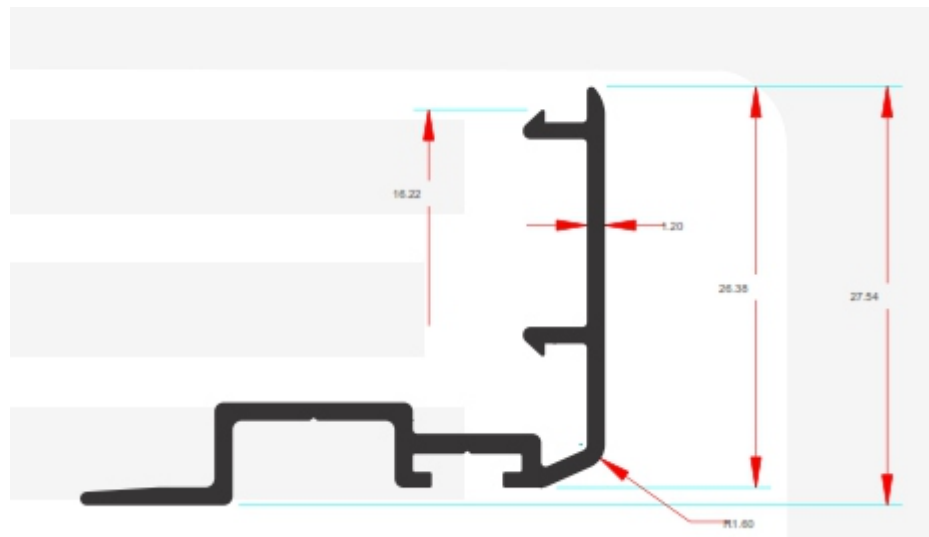


WT. IN kg/12'
2.600-2.800

<u>Title</u>	<u>27x60 Shutter Handle</u>
<u>Die No.</u>	<u>Kps/2003/19-20</u>



27x65 Dumal Clip

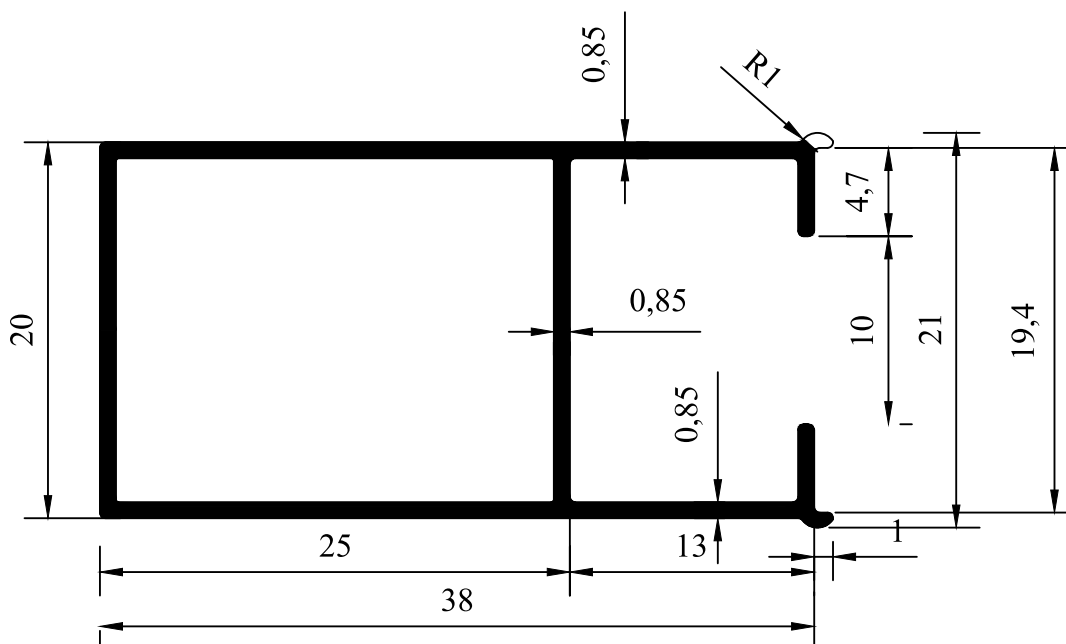


WT. IN kg/12'
1.000-1.200

<u>Title</u>	<u>27x65 Dumal Clip</u>
<u>Die No.</u>	<u>Kps/2004/19-20</u>



20 mm Handle



WT. IN kg/12'
1.000-1.200
1.200-1.400
1.400-1.600
2.000-2.000

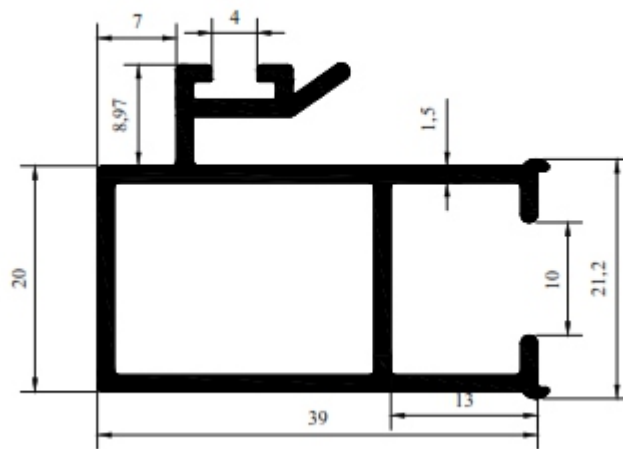
Title	Handle
Die No.	Kps/1254/19-20



KPS

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20 mm Inter Lock



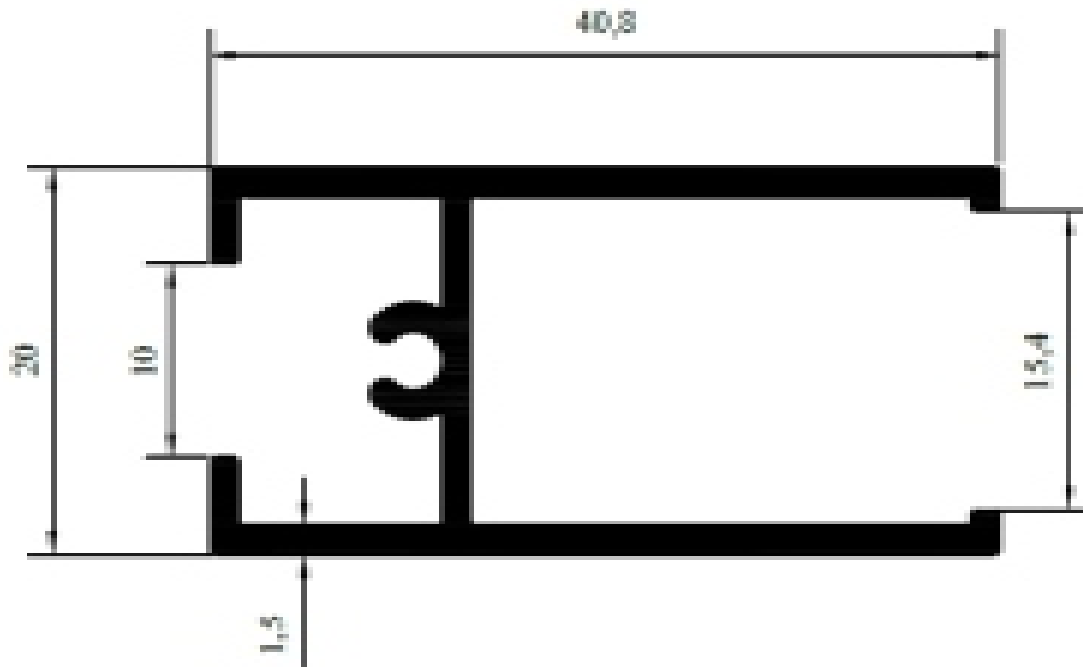
WT. IN kg/12'
1.200-1.400
1.400-1.600
1.800-2.000
2.000-2.200
2.600-2.800



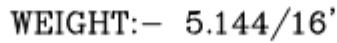
KPS

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20 mm Shutter Bottom



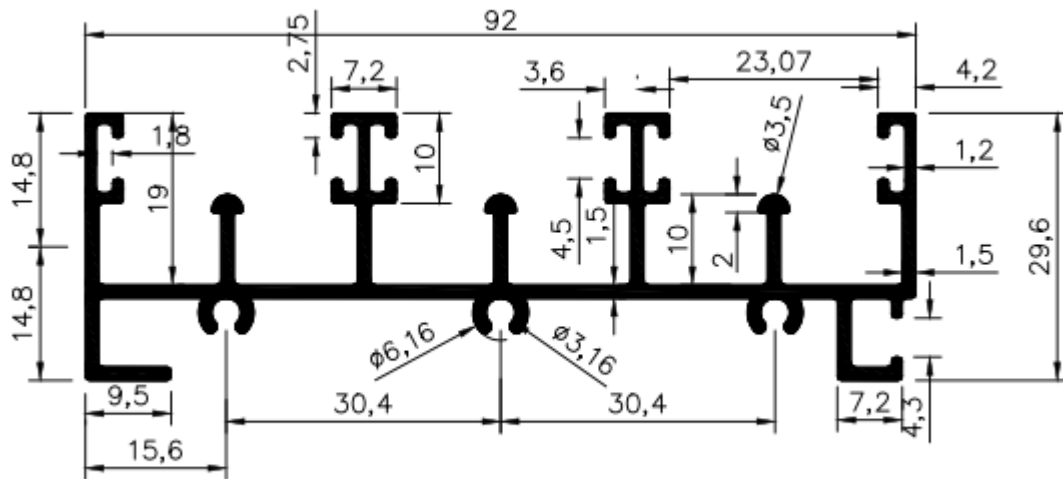
WT. IN kg/12'
1.000-1.200
1.200-1.400
1.400-1.600
1.600-1.800
1.800-2.000



3.600-3.800



20mm 3 Track Bottom



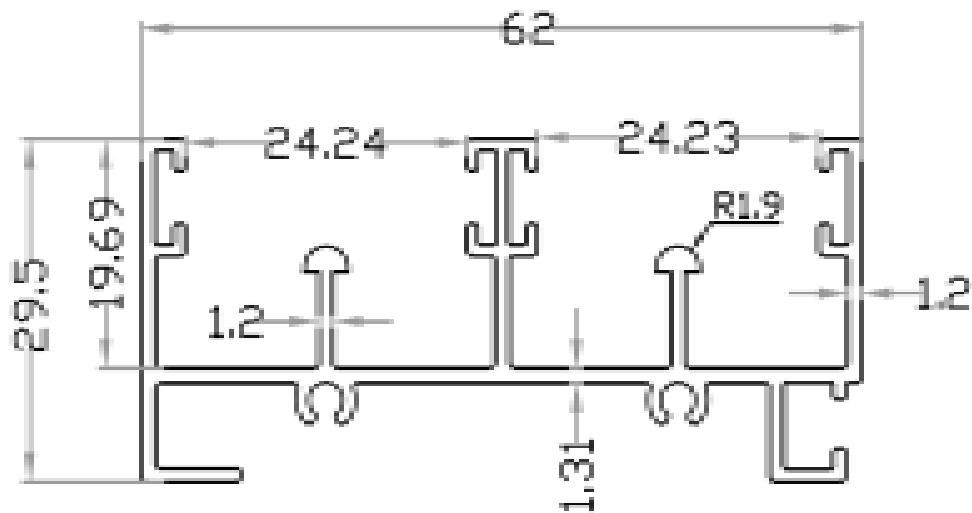
WT. IN kg/12'
2.200-2.400
2.400-2.600
2.800-3.000
3.000-3.200
3.200-3.400
3.600-3.800
3.800-4.000



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20 mm 2 Track Bottom



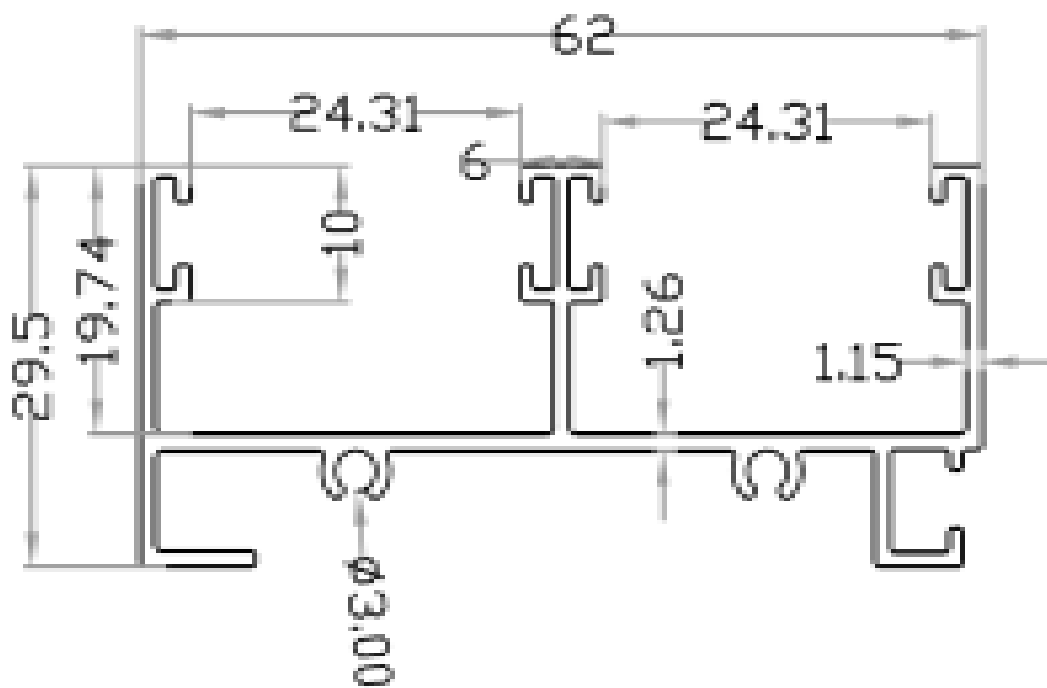
WT. IN kg/12'
1.600-1.800
1.800-2.000
2.200-2.400
2.600-2.800
3.000-3.200



KPS

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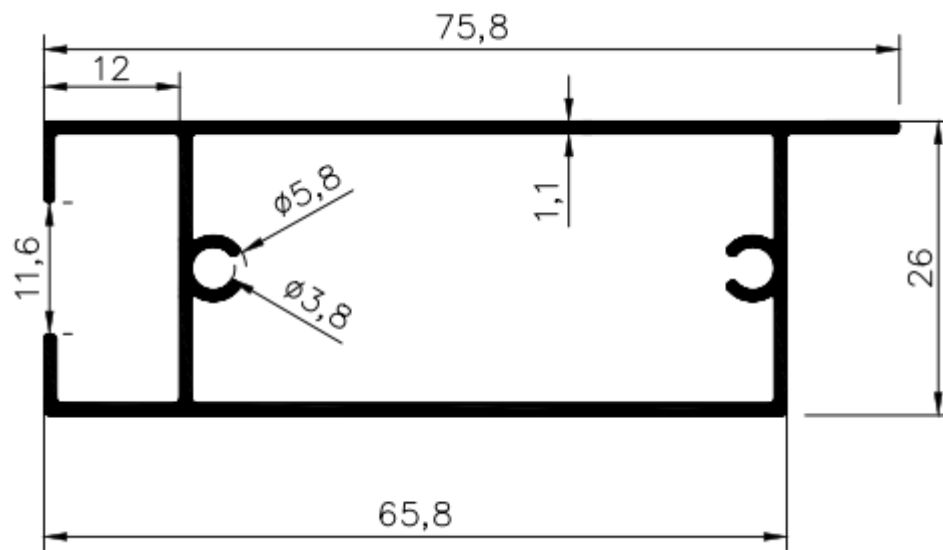
20 mm 2 Track Top



WT. IN 12'
1.400-1.600
1.800-2.000
2.000-2.200
2.400-2.600



3x1 Leg Handle

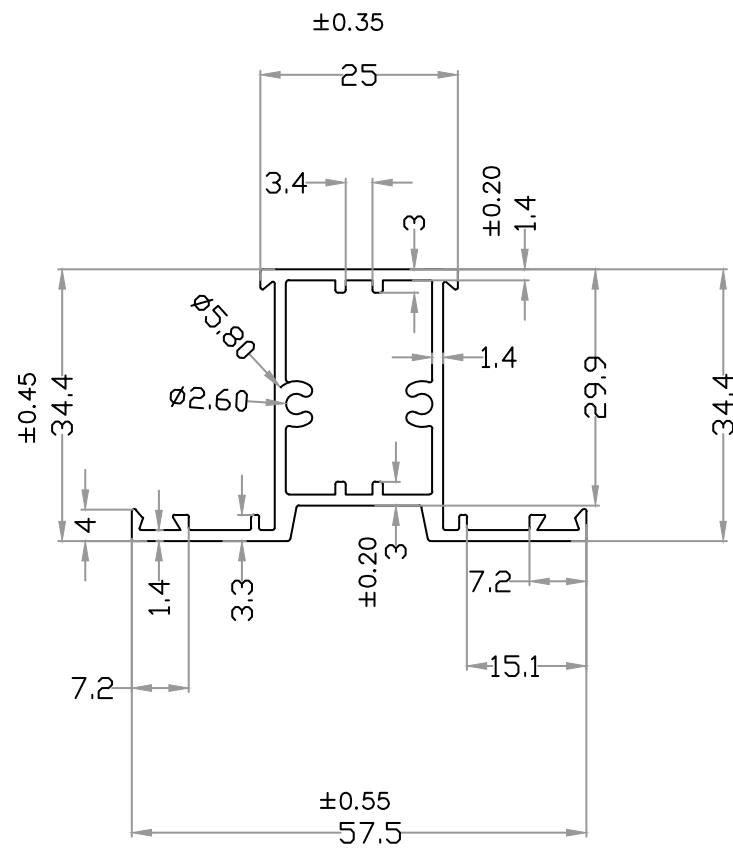


WT. IN kg/12'
2.200-2.400

Title	Top Bottom Single leg
Die No.	Kps/1246/19-20



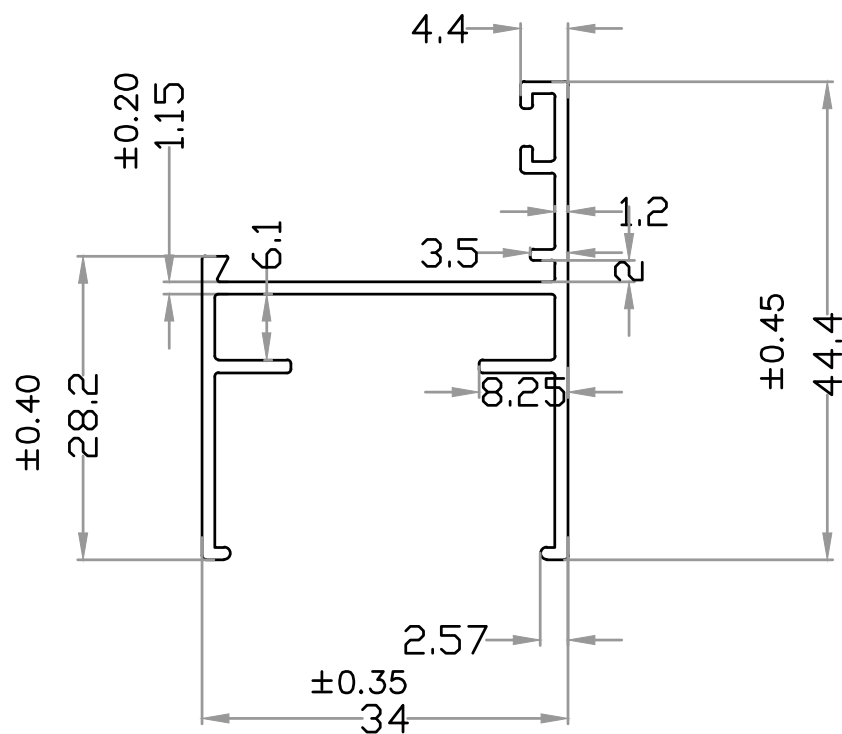
34 mm Series



WT. IN kg/12'
2.400-2.600

Title	Z - OUTER
Die No.	Kps/2045/19-20

34 mm Series

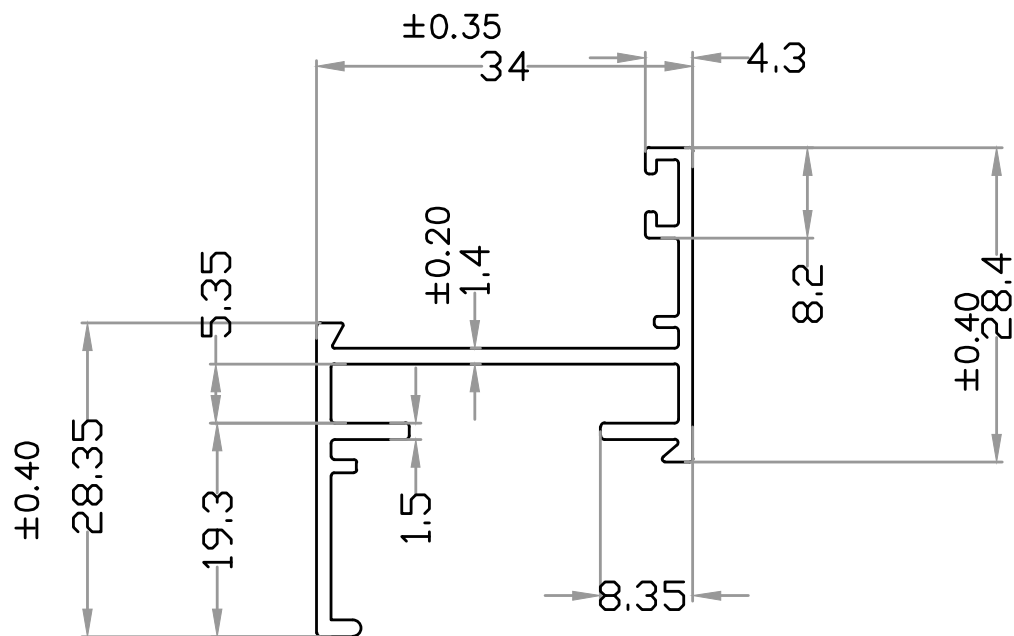


WT. IN kg/12'
1.200-1.400
1.400-1.600

Title	Z – OUTER
Die No.	Kps/2046/47/19-20



34 mm Series



WT. IN kg/12'
1.600-1.800

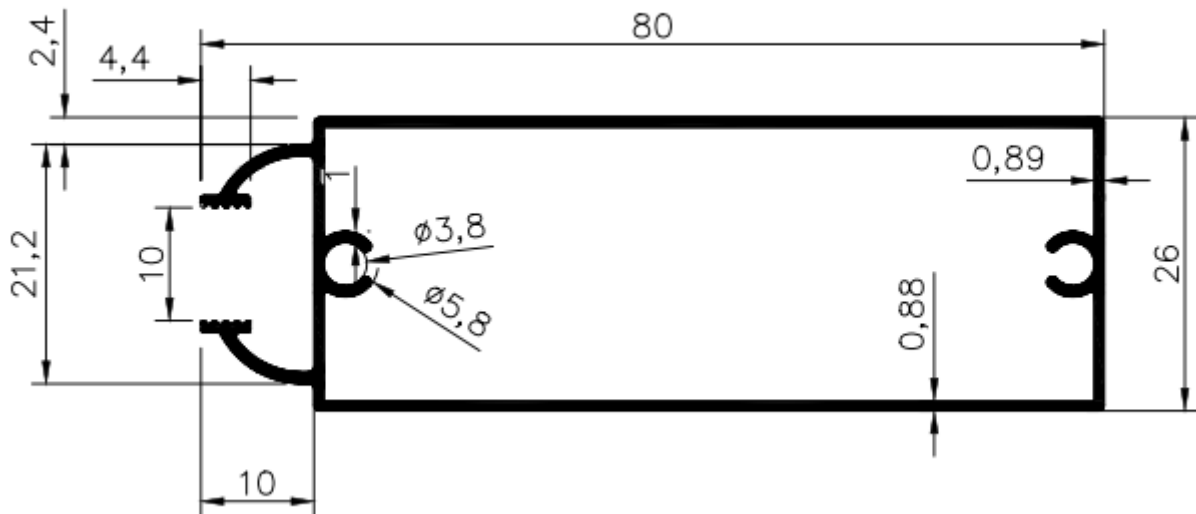
Title	Z-OUTER
Die No.	Kps/2048/19-20



KPS

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Tepar Handle

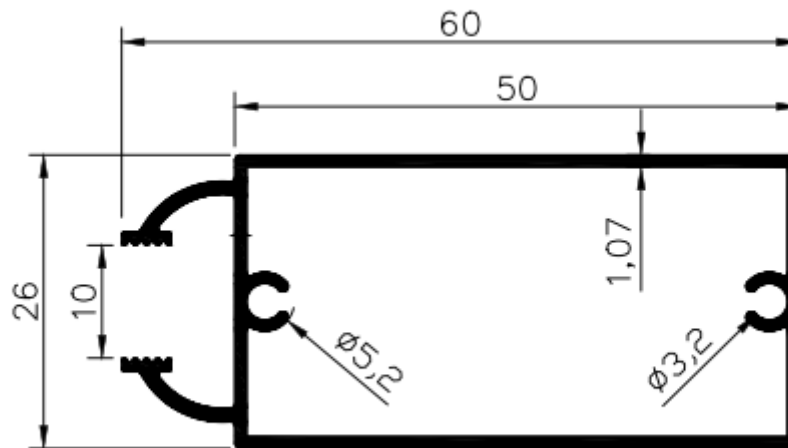


WT. IN
kg/12'
2.000-2.200

Title	Tepar Handle
Die No.	Kps/1245/19-20



Tepar Handle



WT. IN kg/12'
2.000-2.200

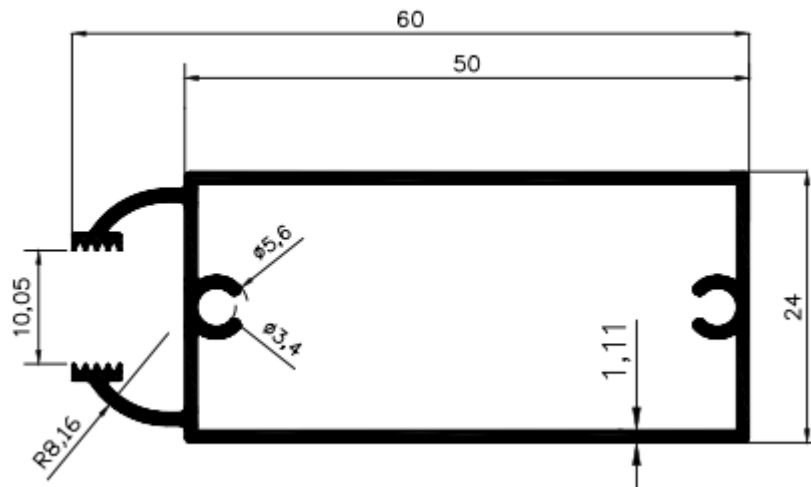
Title	Tepar Handle
Die No.	Kps/1239/19-20



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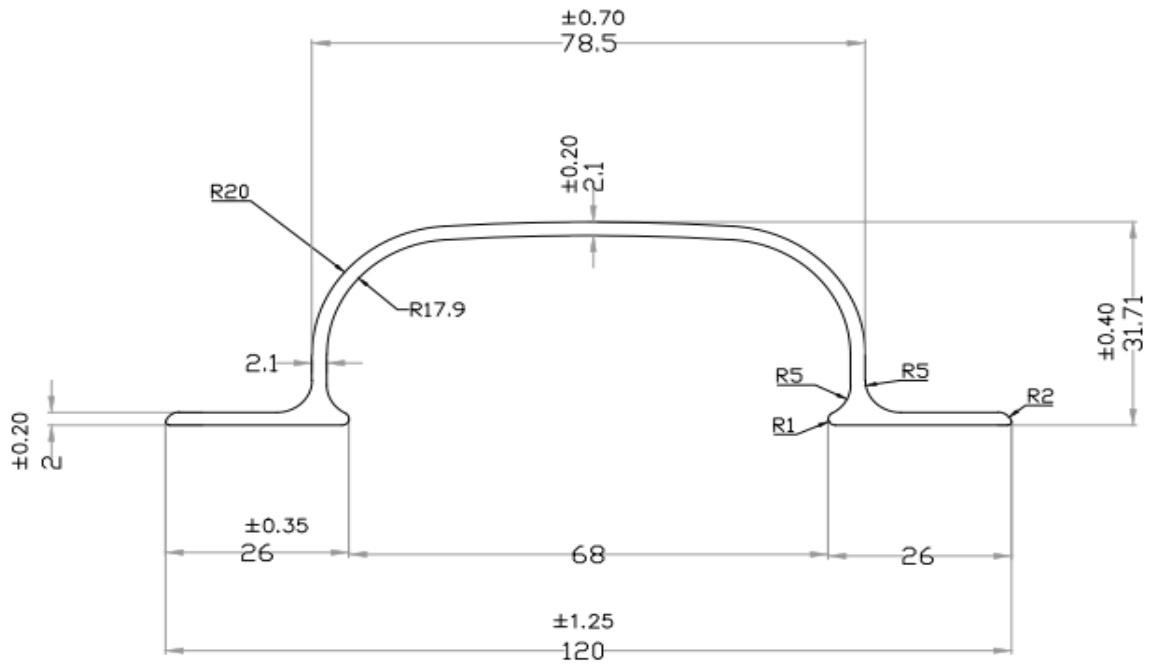
Tepar Handle



WT. IN kg/12'
2.000-2.200

Title	Tepar Handle
Die No.	Kps/1244/19-20

C- Handle

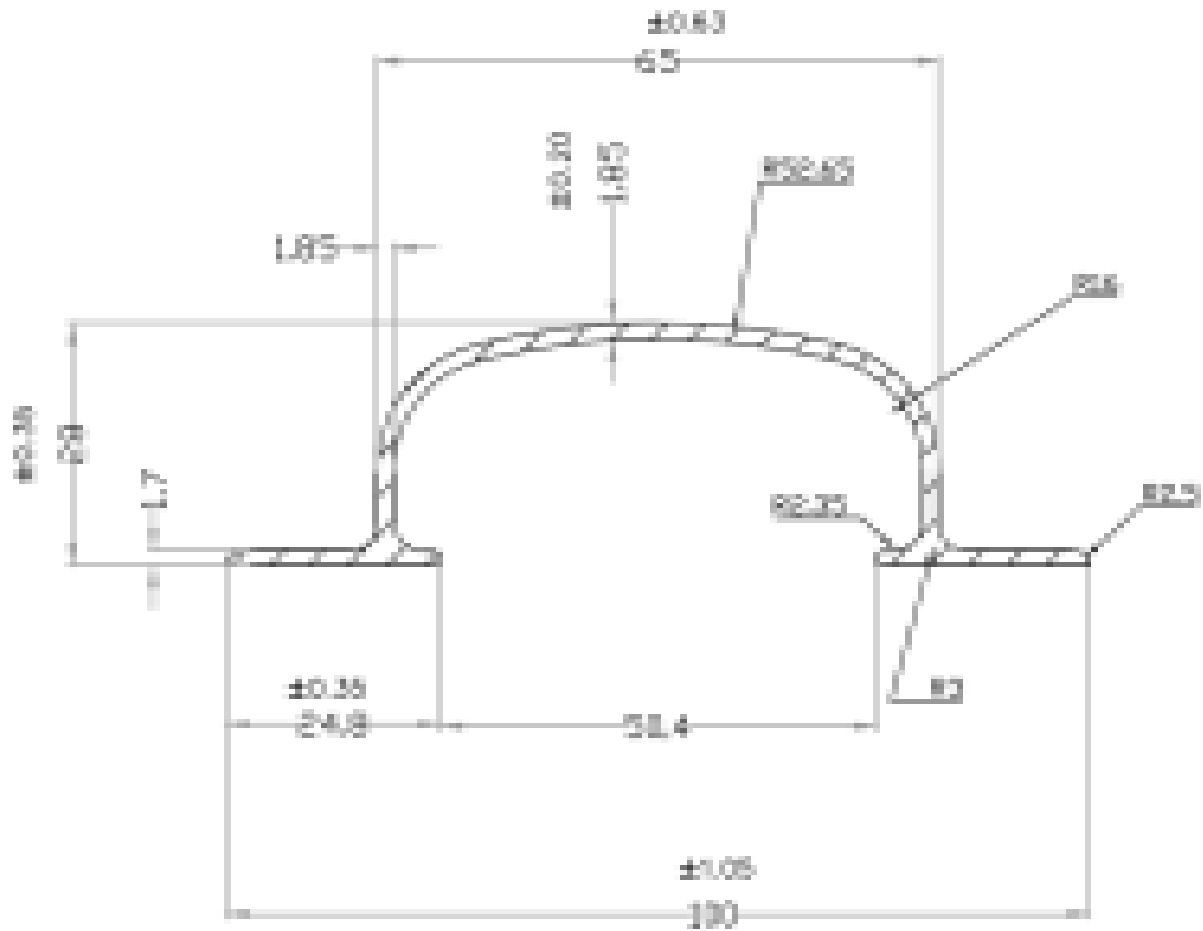


WT. IN 12'
3.400-3.600

Title	C- Handle
Die No.	Kps/2038/19-20



C- Handle

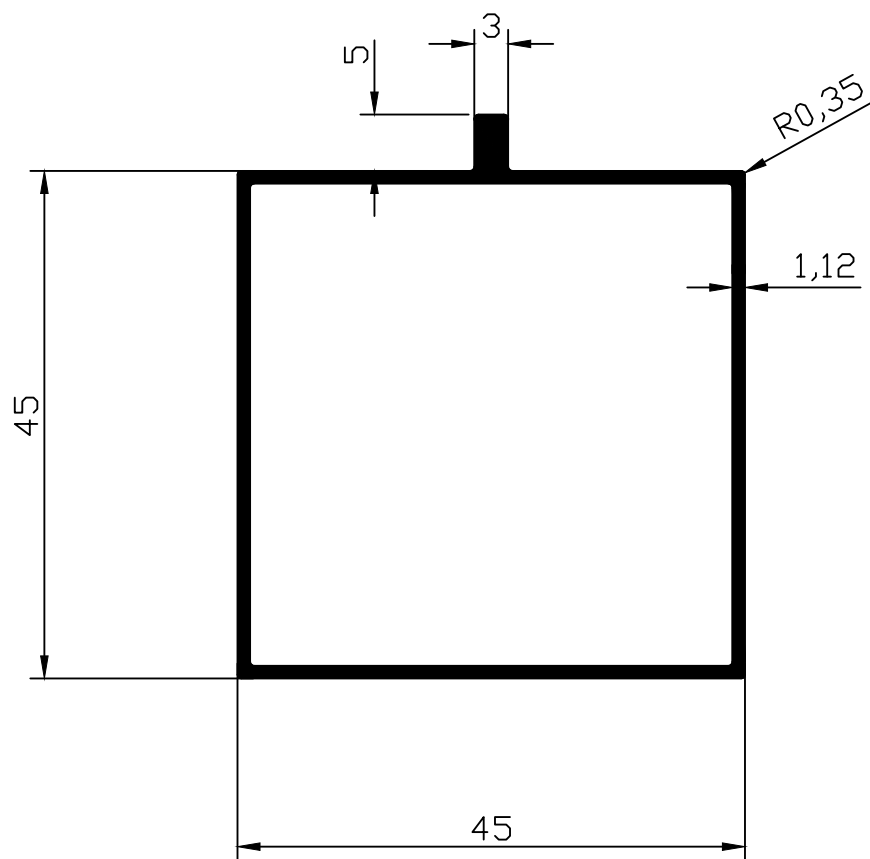


WT. IN 12'
2.600-2.800

Title	C-Handle
Die No.	Kps-2012/19-20



45x45 Curtain Wall

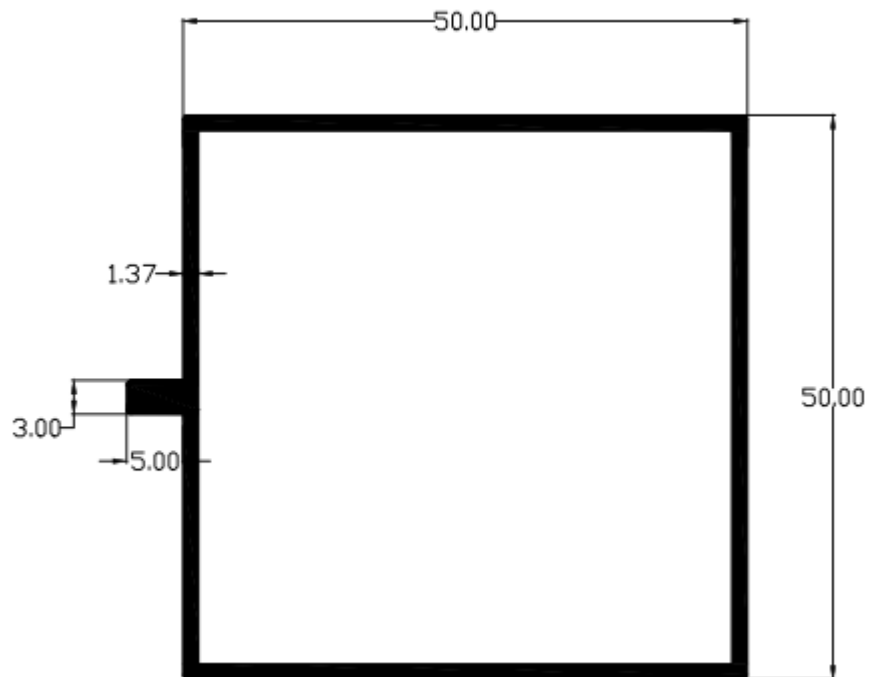


WT. IN 12'
2.000-2.200
2.400-2.600
2.600-2.800
2.800-3.000

Title	45x45 Curtain Wall
Die No.	Kps/1201/19-20



50x50 Curtain wall

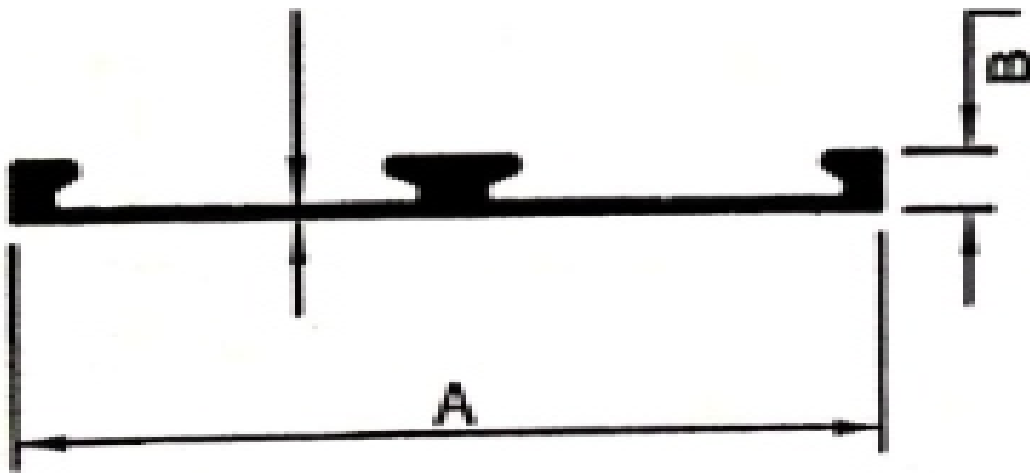


WT. IN 12'
2.400-2.600
2.600-2.800
2.800-3.000
3.000-3.200

Title	50x50 Curtain Wall
Die No.	Kps/1205/19-20



Glazing Pata



WT. IN 12'
0.700-0.800