



STANDARD PRODUCTS

DIE CATALOG

nanshanusa.com



An industry-leading producer of quality standard aluminum extrusions with exceptional service and competitive prices.

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Visit us at
nanshanusa.com



**MADE WITH PRIDE
IN THE USA.**



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NANSHAN AMERICA

In 2012, Nanshan America opened its North American integrated aluminum casting and extrusion facility in Lafayette, IN. Production began with a capacity of 150,000 tons of extrusion ingot and 50,000 tons of extruded product annually.

We operate a technologically advanced integrated aluminum extrusion facility. We're your premium source for large-scale aluminum products. From design to manufacturing, we work with you to make the best product for your project—complete with on-time delivery.

We collaborate with you from start to finish to get the best product at the best price, with efficiency at the core of our approach. Our process combines the latest scientific

knowledge and experienced extrusion professionals to arrive at a high-quality final product that meets your needs—on time, every time.

Nanshan is committed to providing the highest quality products while focusing on customer satisfaction and reliability. We also champion environmentally-friendly production practices as we push the boundaries of quality and efficiency.



Utilizing the latest technology and processes, our **600,000 sq. ft. facility** in Lafayette, Indiana, produces exceptional quality standard and complex extrusion products.

We pride ourselves on being a premium, low-carbon aluminum extrusion manufacturer, utilizing locally sourced aluminum and recycling post-consumer scrap metal. All extrusions are made locally, rather than sourcing them from overseas.

We aim to be the industry-leading producer of quality standard aluminum extrusions while providing exceptional service and competitive prices to our service center community. We hope you enjoy our new standard die catalog, and thank you for your interest in Nanshan America.



**A forward-thinking,
low-carbon extrusion
facility.**



OUR CAPABILITIES

Nanshan America's new and fully integrated extrusion facility in Lafayette, Indiana, is an industry-leading producer of quality standard aluminum extrusions with exceptional service and competitive prices.

Boasting one of the largest presses in North America, our extrusions are produced utilizing either our **5,000-ton press** or our **9,200-ton press** and can range in size from 1.5 pounds per foot to 50 pounds per foot.

Extruded product capabilities range up to 24.0" in width. This product size range, coupled with various alloys and F and T temper capabilities, gives Nanshan America the depth to provide rod, bar, and structural shapes, including detailed custom profiles.

Alloys*	Tempers*	Packing Options
6005A	F	Paper layer
6061	T1	Paper Interleave
6063	T4	Foam Layer
	T5	Foam Interleave
	T52	Strip Separation
	T6	Cardboard Wrap
	T61	
	T6511	

***Not all alloys are available in all listed tempers.**

OUR MATERIALS

Aluminum from the 6000 series is renowned for its strength, corrosion resistance, and weldability. Compared to steel, aluminum in the 6000 series is lighter, making it highly desirable for weight-sensitive applications. Overall, aluminum is a reliable and efficient material with many applications.

Lightweight Aluminum

The perks of using aluminum are vast, including strength, versatility, flexibility, and lightweight nature. Aluminum's many benefits make it a useful and popular material for nearly infinite practical applications. Our state-of-the-art facility in Lafayette, Indiana, can produce lightweight aluminum extrusions with excellent rigidity and flexibility.

High Quality Aluminum

As a high-quality aluminum extrusion manufacturer, we produce the strongest, cleanest, most lightweight aluminum products available today—with a lower carbon footprint than other materials.

We only work with the highest-grade aluminum alloys, producing a product that performs well. Also, you'll be amazed at how clean and pristine our profiles look right out of the die. We have 4 homogenizing furnaces that can produce a superior chemical structure for better strength and grain structure.

Low Carbon Aluminum

Now more than ever, the ability to produce increasingly environmentally friendly products sets forward-thinking companies apart from stagnating. Our minor-emissions facility in Lafayette, Indiana, is a great example.

As a premium, low-carbon aluminum extrusion manufacturer, we always look to the horizon for newer, better ways forward. This includes using locally sourced aluminum, recycling post-consumer scrap metal, and making all extrusions in Lafayette, Indiana.



Our advanced presses, including one of the largest in North America, have more than 100 million pounds of extrusion capacity.



PRESSES

5,000t Prezezzi Extrusion Press

Unparalleled Quality

Capable of producing higher reduction ratios with better surface finish, better grain structure, and improved properties.

Quench Capabilities

Water Air
Wave Spray

Specifications

Highest pressure **12"** billet press in the US
Capable up to **50 lb./ft**
Lengths up to **60 ft** (Length Range: **6' to 60'**)
Other lengths available upon inquiry.

9,200t SMS Extrusion Press*

High Speed = Faster Quenching

This means better metallurgical properties.

Quench Capabilities

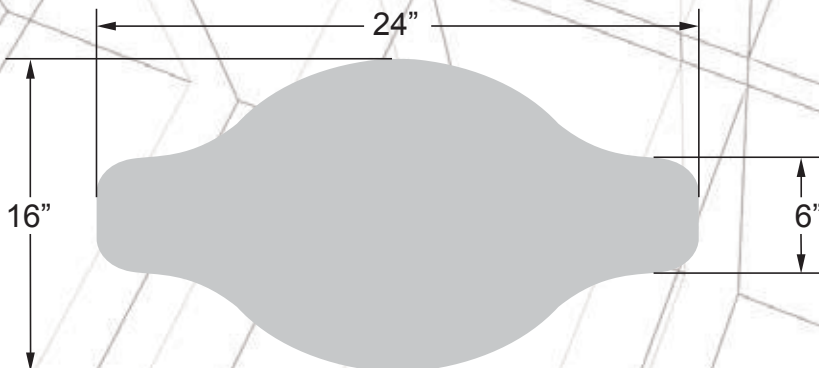
Water Air
Wave Spray

Specifications

18" billet
Capable up to **50 lb./ft**
Lengths up to **86 ft**
Other lengths available upon inquiry.

***Our 9200 Ton Press is one of North America's largest soft alloy presses.**

A larger extrusion offers significant benefits by eliminating the need for multiple steps, such as welding and bending of materials. This not only improves efficiency but also enhances the overall strength and integrity of the final product. It's an ideal solution for projects that require intricate designs, efficient manufacturing processes, and the avoidance of additional welding or bending steps.



Extrusion Capabilities

The diagram to the left shows Nanshan's maximum range of capabilities. The maximum sizes can vary depending on the alloy, material thickness, profile complexity, and tolerances. Please contact our sales team for confirmation and quoting of profiles

EXTRUSION DIES

Standard Dies

Our extensive die library includes over **400 standard extrusion shapes** that can be found in this catalog. With this wide range of options, we can extrude various commonly used shapes across numerous industries, offering cost-effective solutions for our customers.

Standard Shapes

- Rods
- Hex
- I-Beams
- Zee
- Channels
- Bars
- Structural Tube
- Tee
- Angles

Custom Dies

In addition to manufacturing predefined, commonly used shapes, we specialize in **custom aluminum extrusions** tailored to meet precise project requirements. Our expertise allows us to rapidly develop and deploy new products, turning innovation into reality. Our flexibility extends to creating custom dies for diverse industries, enabling us to produce complex shapes that others may deem impossible or impractical.

Moreover, our in-house casting facility grants **complete control** over the final product, ensuring rigorous strength and density testing for uncompromising quality assurance. By aligning our process with your specific project, we can achieve quicker production times, leading to cost savings, reduced material waste, and superior results.

Design Assistance

Ask us to help you with your designs to receive a more cost-effective product and a better monolithic extrusion solution for your applications. We provide expert assistance with design to ensure maximum productivity, precision, and cost-effectiveness.

The Final Product

Utilizing one of North America's largest extrusion size capabilities, we're not only able to create products that other custom aluminum extrusion manufacturers cannot, but our profiles have a markedly superior surface texture appearance while making shapes within the top 5% complexity difficulty.



Shapes & Specifications
We offer solids and multi-void hollows.
1.5 lb./ft up to 50 lb./ft



INDUSTRIES SERVED

Few companies can offer the selection and consistency Nanshan can. With oversized presses and state-of-the-art quench, Nanshan offers metallurgical properties and cosmetic excellence across a wide range of products, allowing us to be a one-stop shop for our customers with diverse portfolios.



Commercial Transportation

Nanshan has a dedicated press to serve the commercial transportation market. Our high-quality aluminum plays a pivotal role in commercial transportation projects, offering a combination of lightweight construction and exceptional strength. Aluminum's inherent properties make it highly suitable for the commercial vehicles industry, providing benefits such as improved fuel economy, environmental friendliness, and enhanced performance for electric trains and buses. At Nanshan, we take pride in delivering aluminum solutions that contribute to the advancement of the commercial transportation sector.



Building & Construction

With its lightweight, durable, and corrosion-resistant properties, aluminum has emerged as a preferred option for buildings and construction. Experience the advantages of aluminum for a sustainable and innovative construction solution.



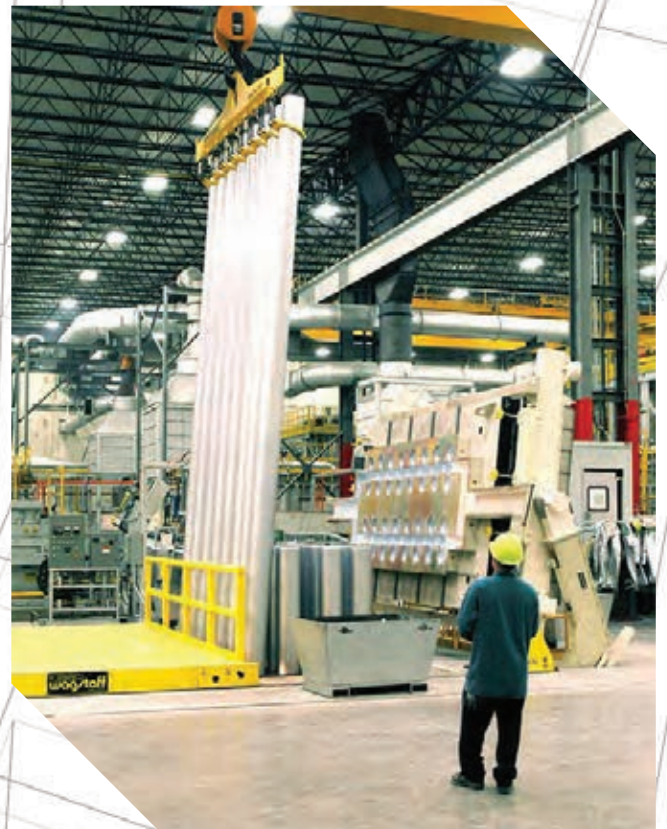
Solar

Aluminum is crucial in constructing solar arrays, offering numerous benefits for the solar energy industry. Its lightweight nature, corrosion resistance, and excellent thermal conductivity make it a preferred choice for solar array applications, contributing to a greener and more sustainable future.

CASTING HOUSE

Our in-house casting facility allows us to maintain control over our metal quality, reliability, and on-time delivery to customers.

- Over 400,000,000 pounds of annual casting capacity
- 4 homogenizing furnaces
- Two 125,000 lb. high-efficiency gas-fired melters
- One 125,000 lb. holding furnace
- Two log coolers
- In-line ultrasonic inspection
- In-house Quality Assurance laboratory
- ISO 9001: 2015 certified
- Designed and operating under LEED initiatives



Casting Capabilities

Diameters

18" - 14" - 12" - 10"

8" (Newly Introduced!)

Other diameters [available upon request.](#)

Log Lengths

From 144" to 288"

Customer-specific lengths [available upon request.](#)

Cut Billet Lengths

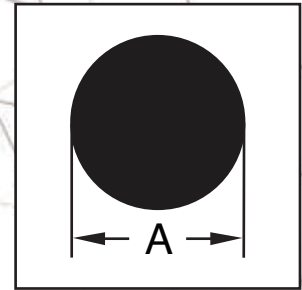
From 23" to 72"

[Ask about customer specific billet lengths](#) to meet your productivity needs.



ROD

Tolerances listed apply to 6061-T6
Weight is based on 6061 alloy

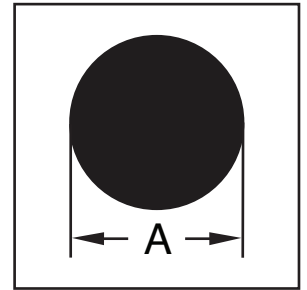


Die Number	Dimension A	Weight Lb/Ft
1003 **	1.000 (+/- .012)	0.924
1004 **	1.125 (+/- .012)	1.169
1005 **	1.250 (+/- .012)	1.443
1613	1.312 (+/- .012)	1.590
1006 **	1.375 (+/- .012)	1.746
1007	1.500 (+/- .014)	2.078
1389	1.562 (+/- .014)	2.253
1008	1.625 (+/- .014)	2.439
1009	1.750 (+/- .014)	2.829
1010	1.875 (+/- .014)	3.247
1011	2.000 (+/- .024)	3.695
2072 **	2.062 (+/- .024)	3.927
1012	2.125 (+/- .024)	4.171
1013	2.250 (+/- .024)	4.676
1014	2.375 (+/- .024)	5.210
1806	2.438 (+/- .024)	5.490
1015	2.500 (+/- .024)	5.773
1016	2.625 (+/- .024)	6.364
1017	2.750 (+/- .024)	6.985
1018	2.875 (+/- .024)	7.634

** Designates dies that run on our P50 press.

ROD

Tolerances listed apply to 6061-T6
Weight is based on 6061 alloy

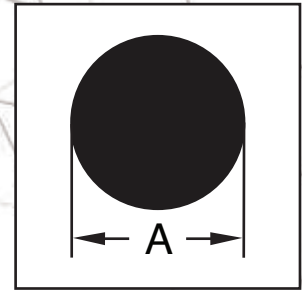


Die Number	Dimension A	Weight Lb/Ft
1019	3.000 (+/- .024)	8.313
1020	3.125 (+/- .024)	9.020
1021	3.250 (+/- .024)	9.756
1022	3.375 (+/- .024)	10.520
1023	3.500 (+/- .024)	11.314
1024	3.625 (+/- .024)	12.137
1025	3.750 (+/- .024)	12.989
1026	3.875 (+/- .024)	13.869
1027	4.000 (+/- .034)	14.778
2182	4.063 (+/- .034)	15.243
1028	4.125 (+/- .034)	15.716
1029	4.250 (+/- .034)	16.683
1030	4.375 (+/- .034)	17.679
1031	4.500 (+/- .034)	18.703
1032	4.625 (+/- .034)	19.757
1033	4.750 (+/- .034)	20.839
1035	5.000 (+/- .034)	23.091
1036	5.125 (+/- .034)	24.260
1037	5.250 (+/- .034)	25.457
1038	5.375 (+/- .034)	26.684

** Designates dies that run on our P50 press.

ROD

Tolerances listed apply to 6061-T6
Weight is based on 6061 alloy



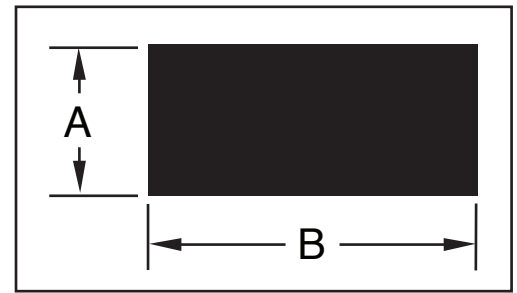
Die Number	Dimension A	Weight Lb/Ft
1039	5.500 (+/- .034)	27.940
1040	5.625 (+/- .034)	29.224
1041	5.750 (+/- .034)	30.537
1042	5.875 (+/- .034)	31.880
1043	6.000 (+/- .044)	33.251
1044	6.125 (+/- .044)	34.650
1045	6.250 (+/- .044)	36.097
1298	6.500 (+/- .044)	39.023

** Designates dies that run on our P50 press.

RECTANGULAR BAR

Tolerances listed apply to 6061-T6

Weight is based on 6061 alloy



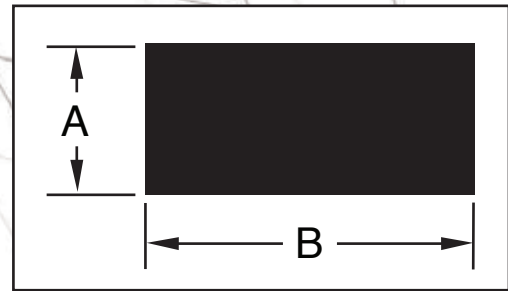
Die Number	Dimension		Weight
#	A	B	Lb/Ft
1874 **	0.250 (+/-0.008)	2.500 (+/-0.024)	0.735
1113 **	0.250 (+/-0.008)	3.000 (+/-0.024)	0.882
1117 **	0.250 (+/-0.008)	4.000 (+/-0.034)	1.176
1304 **	0.250 (+/-0.008)	4.500 (+/-0.034)	1.323
1099 **	0.250 (+/-0.008)	6.000 (+/-0.044)	1.764
1705 **	0.250 (+/-0.016)	12.000 (+/-0.084)	3.528
1636 **	0.312 (+/-0.008)	4.000 (+/-0.034)	1.468
1114 **	0.375 (+/-0.008)	3.000 (+/-0.024)	1.323
1506 **	0.375 (+/-0.008)	4.000 (+/-0.034)	1.764
1499 **	0.375 (+/-0.008)	5.000 (+/-0.034)	2.205
1100 **	0.375 (+/-0.008)	6.000 (+/-0.044)	2.646
1120 **	0.375 (+/-0.008)	8.000 (+/-0.054)	3.528
1697	0.375 (+/-0.016)	10.000 (+/-0.074)	4.410
1451 **	0.375 (+/-0.016)	12.000 (+/-0.084)	5.292
1894	0.375 (+/-0.016)	14.000 (+/-0.094)	6.174
1524 **	0.500 (+/-0.009)	1.000 (+/-0.012)	0.588
1951 **	0.500 (+/-0.009)	1.375 (+/-0.012)	0.809
1112 **	0.500 (+/-0.009)	2.000 (+/-0.024)	1.176
1500 **	0.500 (+/-0.009)	2.500 (+/-0.024)	1.470

** Designates dies that run on our P50 press.

RECTANGULAR BAR

Tolerances listed apply to 6061-T6

Weight is based on 6061 alloy

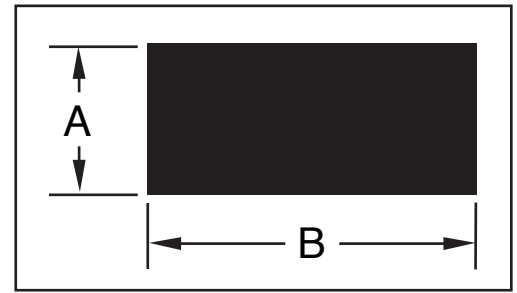


Die Number	Dimension		Weight
#	A	B	Lb/Ft
1115 **	0.500 (+/-0.009)	3.000 (+/-0.024)	1.764
1852	0.500 (+/-0.009)	3.500 (+/-0.024)	2.058
1098 **	0.500 (+/-0.009)	4.000 (+/-0.034)	2.352
2089 **	0.500 (+/-0.009)	4.500 (+/-0.034)	2.645
1488 **	0.500 (+/-0.009)	5.000 (+/-0.034)	2.940
1101 **	0.500 (+/-0.009)	6.000 (+/-0.044)	3.528
1212	0.500 (+/-0.009)	7.000 (+/-0.044)	4.116
1432 **	0.500 (+/-0.009)	8.000 (+/-0.054)	4.704
1441	0.500 (+/-0.016)	10.000 (+/-0.074)	5.880
1158	0.500 (+/-0.016)	12.000 (+/-0.084)	7.056
1166 **	0.625 (+/-0.009)	2.000 (+/-0.024)	1.470
1403	0.625 (+/-0.009)	2.500 (+/-0.024)	1.838
1915	0.625 (+/-0.009)	2.750 (+/-0.024)	2.021
1436 **	0.625 (+/-0.009)	3.000 (+/-0.024)	2.205
1846	0.625 (+/-0.009)	3.500 (+/-0.024)	2.573
1600	0.625 (+/-0.009)	5.000 (+/-0.034)	3.675
1453 **	0.625 (+/-0.009)	6.000 (+/-0.044)	4.410
1750	0.625 (+/-0.009)	8.000 (+/-0.054)	5.880
1520	0.625 (+/-0.017)	10.000 (+/-0.074)	7.350

** Designates dies that run on our P50 press.

RECTANGULAR BAR

Tolerances listed apply to 6061-T6
Weight is based on 6061 alloy



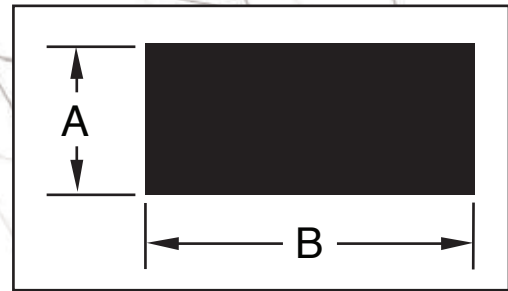
Die Number	Dimension		Weight
#	A	B	Lb/Ft
1751	0.625 (+/- .017)	12.000 (+/- .084)	8.820
1452 **	0.750 (+/- .010)	1.500 (+/- .014)	1.323
1225 **	0.750 (+/- .010)	2.000 (+/- .024)	1.764
1397 **	0.750 (+/- .010)	2.250 (+/- .024)	1.984
1367	0.750 (+/- .010)	2.500 (+/- .024)	2.205
1437 **	0.750 (+/- .010)	3.000 (+/- .024)	2.646
1267 **	0.750 (+/- .010)	3.500 (+/- .024)	3.087
1151 **	0.750 (+/- .010)	4.000 (+/- .034)	3.528
1601	0.750 (+/- .010)	4.500 (+/- .034)	3.969
1153 **	0.750 (+/- .010)	5.000 (+/- .034)	4.410
1438	0.750 (+/- .010)	6.000 (+/- .044)	5.292
1307	0.750 (+/- .010)	8.000 (+/- .054)	7.056
1346	0.750 (+/- .018)	10.000 (+/- .074)	8.820
1167	0.750 (+/- .018)	12.000 (+/- .084)	10.584
1513	0.875 (+/- .010)	3.000 (+/- .024)	3.087
1634	0.875 (+/- .010)	6.000 (+/- .044)	6.174
1614	0.875 (+/- .010)	8.000 (+/- .054)	8.232
1450 **	1.000 (+/- .012)	1.250 (+/- .012)	1.470
1358 **	1.000 (+/- .012)	1.500 (+/- .014)	1.764

** Designates dies that run on our P50 press.

RECTANGULAR BAR

Tolerances listed apply to 6061-T6

Weight is based on 6061 alloy

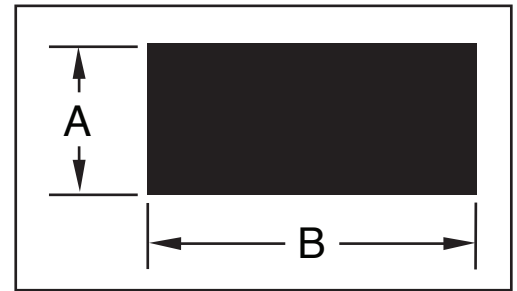


Die Number	Dimension		Weight
#	A	B	Lb/Ft
1343	1.000 (+/- .012)	1.750 (+/- .014)	2.058
1221 **	1.000 (+/- .012)	2.000 (+/- .024)	2.352
1467	1.000 (+/- .012)	2.250 (+/- .024)	2.646
1492	1.000 (+/- .012)	2.500 (+/- .024)	2.940
1398 **	1.000 (+/- .012)	3.000 (+/- .024)	3.528
1353	1.000 (+/- .012)	3.500 (+/- .024)	4.116
1118	1.000 (+/- .012)	4.000 (+/- .034)	4.704
1482	1.000 (+/- .012)	4.500 (+/- .034)	5.292
1442	1.000 (+/- .012)	5.000 (+/- .034)	5.880
1119	1.000 (+/- .012)	6.000 (+/- .044)	7.056
1723	1.000 (+/- .012)	8.000 (+/- .054)	9.408
1370	1.000 (+/- .019)	10.000 (+/- .074)	11.760
1352	1.000 (+/- .019)	12.000 (+/- .084)	14.112
1910	1.060 (+/- .019)	12.000 (+/- .084)	14.959
1799	1.125 (+/- .012)	4.000 (+/- .034)	5.292
1842	1.125 (+/- .012)	6.000 (+/- .044)	7.938
1291 **	1.250 (+/- .012)	1.500 (+/- .014)	2.205
1351	1.250 (+/- .012)	1.750 (+/- .014)	2.573
1426 **	1.250 (+/- .012)	2.000 (+/- .024)	2.940

** Designates dies that run on our P50 press.

RECTANGULAR BAR

Tolerances listed apply to 6061-T6
Weight is based on 6061 alloy



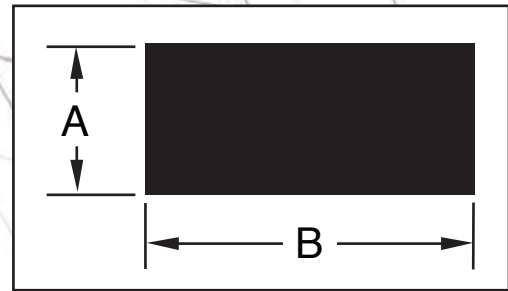
Die Number	Dimension		Weight
#	A	B	Lb/Ft
1220 **	1.250 (+/- .012)	2.500 (+/- .024)	3.675
1413	1.250 (+/- .012)	3.000 (+/- .024)	4.410
1477	1.250 (+/- .012)	3.500 (+/- .024)	5.145
1412	1.250 (+/- .012)	4.000 (+/- .034)	5.880
1541	1.250 (+/- .012)	4.500 (+/- .034)	6.615
1566	1.250 (+/- .012)	5.000 (+/- .034)	7.350
1408	1.250 (+/- .012)	6.000 (+/- .044)	8.820
1890	1.250 (+/- .012)	8.000 (+/- .054)	11.760
1752	1.250 (+/- .019)	12.000 (+/- .084)	17.640
1359	1.500 (+/- .014)	2.000 (+/- .024)	3.528
1439	1.500 (+/- .014)	2.500 (+/- .024)	4.410
1402	1.500 (+/- .014)	3.000 (+/- .024)	5.292
1150	1.500 (+/- .014)	3.500 (+/- .024)	6.174
1414	1.500 (+/- .014)	4.000 (+/- .034)	7.056
1440	1.500 (+/- .014)	5.000 (+/- .034)	8.820
1628	1.500 (+/- .014)	5.500 (+/- .034)	9.702
1372	1.500 (+/- .014)	6.000 (+/- .044)	10.584
1181	1.500 (+/- .014)	7.500 (+/- .044)	13.230
1375	1.500 (+/- .014)	8.000 (+/- .054)	14.112

** Designates dies that run on our P50 press.

RECTANGULAR BAR

Tolerances listed apply to 6061-T6

Weight is based on 6061 alloy



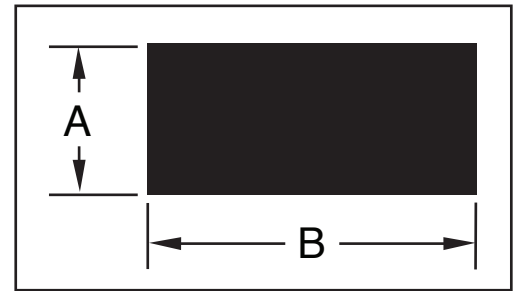
Die Number	Dimension		Weight
#	A	B	Lb/Ft
1168	1.500 (+/-0.024)	10.000 (+/-0.074)	17.640
1753	1.500 (+/-0.024)	12.000 (+/-0.084)	21.168
1971	1.520 (+/-0.014)	8.000 (+/-0.054)	14.300
1972	1.520 (+/-0.014)	10.000 (+/-0.074)	17.875
1473	1.750 (+/-0.014)	2.000 (+/-0.024)	4.116
1270	1.750 (+/-0.014)	2.500 (+/-0.024)	5.145
1350	1.750 (+/-0.014)	3.000 (+/-0.024)	6.174
1732	1.750 (+/-0.014)	3.500 (+/-0.024)	7.203
1807	1.750 (+/-0.014)	4.000 (+/-0.034)	8.232
1416	1.750 (+/-0.014)	5.000 (+/-0.034)	10.290
1754	1.750 (+/-0.014)	6.000 (+/-0.044)	12.348
1755	1.750 (+/-0.024)	12.000 (+/-0.084)	24.696
1405	2.000 (+/-0.024)	2.250 (+/-0.024)	5.292
1476	2.000 (+/-0.024)	2.500 (+/-0.024)	5.880
1427	2.000 (+/-0.024)	3.000 (+/-0.024)	7.060
1399	2.000 (+/-0.024)	3.500 (+/-0.024)	8.232
1422	2.000 (+/-0.024)	4.000 (+/-0.034)	9.408
1475	2.000 (+/-0.024)	4.500 (+/-0.034)	10.584
1409	2.000 (+/-0.024)	5.000 (+/-0.034)	11.760

** Designates dies that run on our P50 press.

RECTANGULAR BAR

Tolerances listed apply to 6061-T6

Weight is based on 6061 alloy



Die Number	Dimension		Weight
#	A	B	Lb/Ft
1385	2.000 (+/- .024)	6.000 (+/- .044)	14.112
1349	2.000 (+/- .024)	8.000 (+/- .054)	18.816
1468	2.000 (+/- .034)	10.000 (+/- .074)	23.520
1809	2.000 (+/- .034)	12.000 (+/- .084)	28.224
1702	2.250 (+/- .024)	3.000 (+/- .024)	7.938
1415	2.500 (+/- .024)	3.000 (+/- .024)	8.820
1428	2.500 (+/- .024)	3.500 (+/- .024)	10.290
1355	2.500 (+/- .024)	4.000 (+/- .034)	11.760
2226	2.500 (+/- .024)	4.500 (+/- .034)	13.334
1406	2.500 (+/- .024)	5.000 (+/- .034)	14.700
1514	2.500 (+/- .024)	5.500 (+/- .034)	16.170
1376	2.500 (+/- .024)	6.000 (+/- .044)	17.640
1548	2.500 (+/- .024)	6.500 (+/- .044)	19.110
1183	2.500 (+/- .024)	8.000 (+/- .054)	23.520
1445	3.000 (+/- .024)	3.500 (+/- .024)	12.348
1377	3.000 (+/- .024)	4.000 (+/- .034)	14.112
1829	3.000 (+/- .024)	4.500 (+/- .034)	15.876
1378	3.000 (+/- .024)	5.000 (+/- .034)	17.640
1423	3.000 (+/- .024)	6.000 (+/- .044)	21.168

** Designates dies that run on our P50 press.

RECTANGULAR BAR

Tolerances listed apply to 6061-T6

Weight is based on 6061 alloy

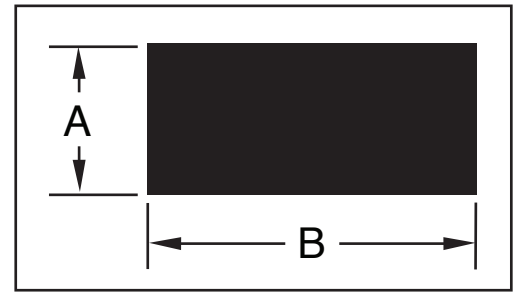


Die Number	Dimension		Weight
#	A	B	Lb/Ft
1317	3.000 (+/- .024)	7.000 (+/- .044)	24.696
1444	3.000 (+/- .024)	8.000 (+/- .054)	28.224
1424	3.500 (+/- .024)	4.000 (+/- .034)	16.464
1425	3.500 (+/- .024)	4.500 (+/- .034)	18.522
1530	3.500 (+/- .024)	6.000 (+/- .044)	24.696
1724	4.000 (+/- .034)	4.500 (+/- .034)	21.168
1379	4.000 (+/- .034)	5.000 (+/- .034)	23.520
2091	4.000 (+/- .034)	5.500 (+/- .034)	25.871
1356	4.000 (+/- .034)	6.000 (+/- .044)	28.224
1410	4.000 (+/- .034)	8.000 (+/- .054)	37.632
1639	4.500 (+/- .034)	5.000 (+/- .034)	26.460
1478	4.500 (+/- .034)	5.500 (+/- .034)	29.106

** Designates dies that run on our P50 press.

RECTANGULAR BAR

Tolerances listed apply to 6061-T6
Weight is based on 6061 alloy



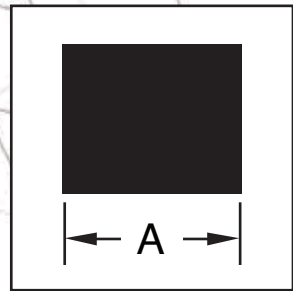
Die Number	Dimension		Weight
#	A	B	Lb/Ft
1690	4.500 (+/- .034)	7.500 (+/- .044)	39.631
1395	5.000 (+/- .034)	5.500 (+/- .034)	32.340
1404	5.000 (+/- .034)	6.000 (+/- .044)	35.280
1640	5.000 (+/- .034)	7.000 (+/- .044)	41.160

** Designates dies that run on our P50 press.

SQUARE BAR

Tolerances listed apply to 6061-T6

Weight is based on 6061 alloy



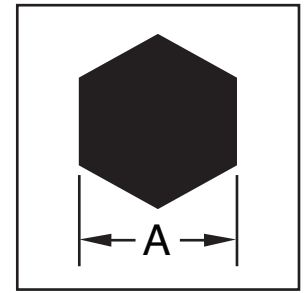
Die Number	Dimension	Weight
#	A	Lb/Ft
1471 **	1.000 (+/- .012)	1.176
1472 **	1.250 (+/- .012)	1.838
1528 **	1.500 (+/- .014)	2.646
1531	1.750 (+/- .014)	3.602
1419	2.000 (+/- .024)	4.704
1197	2.250 (+/- .024)	5.954
1386	2.500 (+/- .024)	7.350
1387	3.000 (+/- .024)	10.584
1429	3.500 (+/- .024)	14.406
1268	4.000 (+/- .034)	18.816
1549	4.500 (+/- .034)	23.814
1354	5.000 (+/- .034)	29.400
1474	5.500 (+/- .034)	35.574
1420	6.000 (+/- .044)	42.336

** Designates dies that run on our P50 press.

HEXAGONAL BAR

Tolerances listed apply to 6061-T6

Weight is based on 6061 alloy

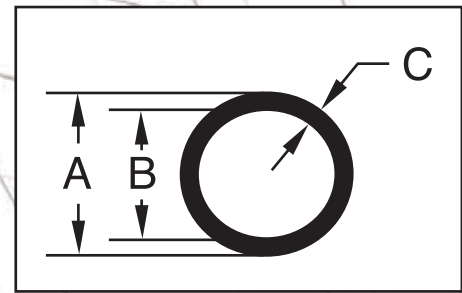


Die Number	Dimension	Weight
#	A	Lb/Ft
1552 **	1.000 (+/- .012)	1.018
1299 **	1.125 (+/- .012)	1.289
2074 **	1.250 (+/- .012)	1.591
1097 **	2.000 (+/- .024)	4.074
1209 **	2.500 (+/- .024)	6.336

** Designates dies that run on our P50 press.

TUBE - STRUCTURAL

Weight is based on 6061 alloy

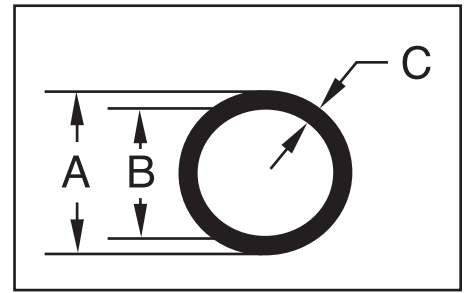


Die Number	Dimension			Weight
#	A (OD)	B (ID)	C (Wall)	Lb/Ft
1637 **	1.500	1.250	0.125	0.635
1501 **	2.000	1.750	0.125	0.866
1927 **	2.000	1.624	0.188	1.258
1286 **	2.000	1.500	0.250	1.616
1847	2.000	1.250	0.375	2.251
1324 **	2.419	1.781	0.319	2.475
1185 **	2.750	2.000	0.375	3.290
1462 **	3.000	2.500	0.250	2.540
1155 **	3.000	2.250	0.375	3.637
1135	3.000	2.000	0.500	4.618
1602 **	3.250	2.750	0.250	2.771
1876	3.500	3.124	0.188	2.300
1193	3.750	2.750	0.500	6.004
1447 **	4.000	3.750	0.125	1.790
1288 **	4.000	3.500	0.250	3.464
1744	4.000	3.250	0.375	5.023
1095	4.000	2.500	0.750	9.006
1186	4.270	3.250	0.510	7.084
1369	4.500	3.500	0.500	7.329

** Designates dies that run on our P50 press.

TUBE - STRUCTURAL

Weight is based on 6061 alloy

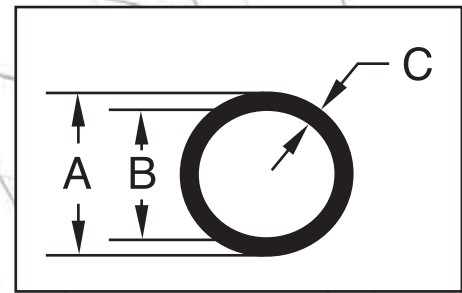


Die Number	Dimension			Weight
#	A (OD)	B (ID)	C (Wall)	Lb/Ft
1090	4.750	3.750	0.500	7.850
1047 **	5.000	4.750	0.125	2.251
1935 **	5.000	4.624	0.188	3.342
1845	5.000	4.250	0.375	6.408
1093	5.500	4.750	0.375	7.100
1745	5.500	4.000	0.750	13.162
1290	6.000	5.000	0.500	10.160
1735	6.000	4.000	1.000	18.473
1273	6.430	5.312	0.559	12.125
1048	6.450	6.074	0.188	4.350
1411	6.734	5.565	0.589	13.391
1630	7.000	6.000	0.500	12.007
1746	7.000	5.000	1.000	22.168
1332	7.023	5.751	0.636	15.008
1643	7.500	6.500	0.500	12.931
1295	7.500	6.000	0.750	18.703
1945	8.000	7.000	0.500	13.854
1360	8.000	6.500	0.750	20.830
2231	8.000	6.000	1.000	25.861

** Designates dies that run on our P50 press.

TUBE - STRUCTURAL

Weight is based on 6061 alloy

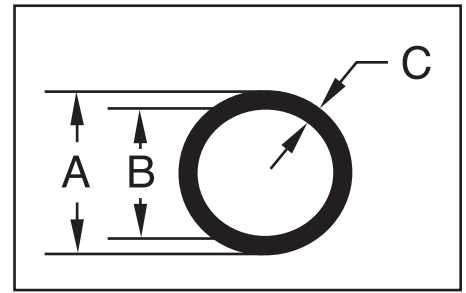


Die Number	Dimension			Weight
#	A (OD)	B (ID)	C (Wall)	Lb/Ft
1631	8.500	7.500	0.500	14.778
1635	9.000	8.000	0.500	15.702
1465	9.000	7.000	1.000	29.556
1598	10.000	9.624	0.188	6.815
1999	10.000	9.500	0.250	9.005
1257	12.000	11.500	0.250	10.852

** Designates dies that run on our P50 press.

PIPE - STRUCTURAL

Weight is based on 6061 alloy

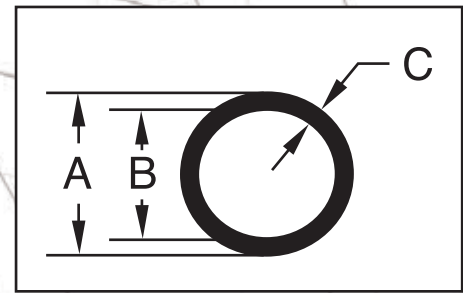


Die Number	Designation		Dimension			Weight
#	Pipe Size	Schedule No.	A (OD)	B (ID)	C (Wall)	Lb/Ft
1057 **	1.50	40	1.900	1.610	0.145	0.940
1485 **	1.50	80	1.900	1.500	0.200	1.256
1573 **	1.50	160	1.900	1.338	0.281	1.681
1058 **	2.00	40	2.375	2.067	0.154	1.264
1318 **	2.00	80	2.375	1.939	0.218	1.737
1059 **	2.50	40	2.875	2.469	0.203	2.004
1316 **	2.50	80	2.875	2.323	0.276	2.650
1570 **	3.00	10	3.500	3.260	0.120	1.498
1050 **	3.00	40	3.500	3.068	0.216	2.621
1319 **	3.00	80	3.500	2.900	0.300	3.547
1051	3.50	40	4.000	3.548	0.226	3.151
1644 **	4.00	10	4.500	4.260	0.120	1.942
1052	4.00	40	4.500	4.026	0.237	3.733
1326	4.00	80	4.500	3.826	0.337	5.183
1053	5.00	40	5.563	5.047	0.258	5.075
1297	5.00	80	5.563	4.813	0.375	7.188
1054	6.00	40	6.625	6.065	0.280	6.564
1217	6.00	80	6.625	5.761	0.432	9.884
1076	8.00	40	8.625	7.981	0.322	9.878

** Designates dies that run on our P50 press.

PIPE - STRUCTURAL

Weight is based on 6061 alloy

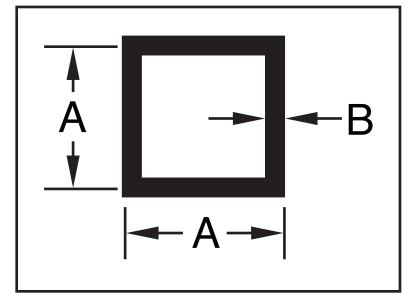


Die Number	Designation		Dimension			Weight
	#	Pipe Size	Schedule No.	A (OD)	B (ID)	
1174	8.00	80	8.625	7.625	0.500	15.010
1077	10.00	40	10.750	10.020	0.365	14.004
1175	10.00	80	10.750	9.562	0.594	22.290
1078	12.00	40	12.750	11.938	0.406	18.520
1218	12.00	80	12.750	11.374	0.688	30.660

** Designates dies that run on our P50 press.

SQUARE TUBE

Weight is based on 6061 alloy

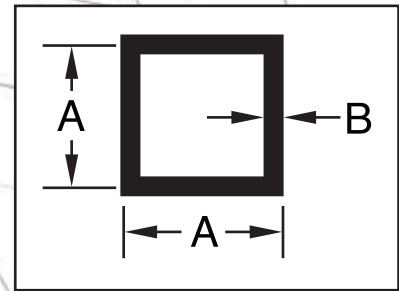


Die Number	Dimension		Weight
#	A	B	Lb/Ft
1344 **	1.250	0.125	0.662
1128 **	1.500	0.125	0.809
1763 **	1.500	0.188	1.161
1222 **	2.000	0.125	1.103
1366 **	2.000	0.188	1.603
1109 **	2.000	0.250	2.058
1237 **	2.500	0.125	1.397
1129 **	2.500	0.188	2.039
1130 **	2.500	0.250	2.646
1224 **	3.000	0.125	1.691
1131 **	3.000	0.250	3.234
1258	3.000	0.375	4.631
1576	3.000	0.500	5.880
1577 **	3.500	0.250	3.822
1223 **	4.000	0.125	2.279
1932	4.000	0.188	3.372
1260 **	4.000	0.250	4.410
1172 **	4.000	0.375	6.395
1578	4.000	0.500	8.232

** Designates dies that run on our P50 press.

SQUARE TUBE

Weight is based on 6061 alloy

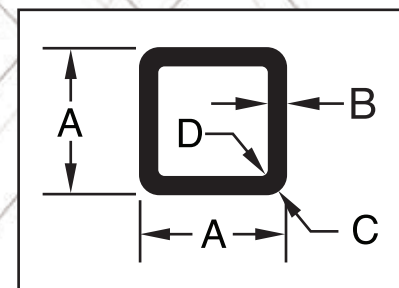


Die Number	Dimension		Weight
#	A	B	Lb/Ft
1579	5.000	0.375	8.159
1198 **	6.000	0.125	3.455
1469	6.000	0.250	6.762
1213	6.000	0.375	9.923
1435	6.000	0.500	12.936
1534	8.000	0.188	6.891
1228	8.000	0.250	9.114
1242	8.000	0.375	13.451
1234	8.000	0.500	17.640

** Designates dies that run on our P50 press.

SQUARE TUBE RADIUS CORNERS

Weight is based on 6061 alloy

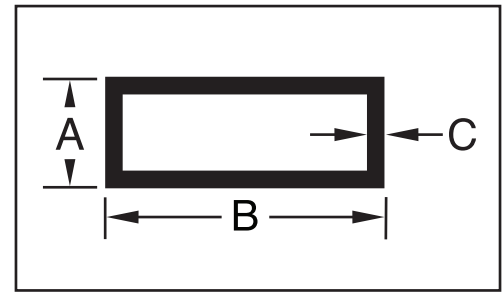


Die Number	Dimension				Weight
#	A	B	C	D	Lb/Ft
1108 **	2.000	0.188	0.180	0.062	1.570

** Designates dies that run on our P50 press.

RECTANGULAR TUBE

Weight is based on 6061 alloy

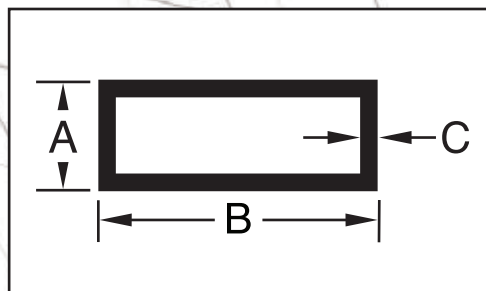


Die Number	Dimension			Weight
#	A	B	C	Lb/Ft
1239 **	1.000	2.000	0.125	0.809
1519 **	1.000	3.000	0.125	1.103
1645 **	1.000	4.000	0.125	1.397
1238 **	1.000	5.000	0.125	1.691
1615 **	1.000	6.000	0.125	1.985
1287 **	1.500	2.000	0.125	0.956
1470 **	1.500	2.500	0.125	1.103
1481 **	1.500	3.000	0.125	1.250
1522 **	1.750	3.000	0.125	1.323
1152 **	2.000	3.000	0.125	1.397
1536 **	2.000	3.000	0.250	2.646
1314 **	2.000	4.000	0.125	1.691
1511 **	2.000	4.000	0.188	2.487
1110 **	2.000	4.000	0.250	3.234
1550 **	2.000	5.000	0.125	1.985
1480 **	2.000	6.000	0.125	2.279
1368 **	2.000	6.000	0.250	4.410
1236 **	2.000	8.000	0.125	2.867

** Designates dies that run on our P50 press.

RECTANGULAR TUBE

Weight is based on 6061 alloy

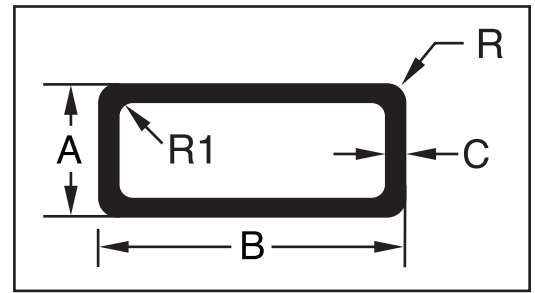


Die Number	Dimension			Weight
#	A	B	C	Lb/Ft
2220 **	2.000	10.000	0.125	3.455
1138 **	3.000	4.000	0.125	1.985
1094 **	3.000	4.000	0.250	3.822
1694 **	3.000	6.000	0.125	2.573
2219 **	3.000	6.000	0.250	4.998
1132 **	4.000	6.000	0.250	5.586
1783	4.000	6.000	0.500	10.584
1466	4.000	8.000	0.250	6.762
1947	4.000	8.000	0.500	12.936
1768	5.000	8.000	0.375	10.805
1840	6.000	8.000	0.375	11.687

** Designates dies that run on our P50 press.

RECTANGULAR TUBE RADIUS CORNERS

Weight is based on 6061 alloy

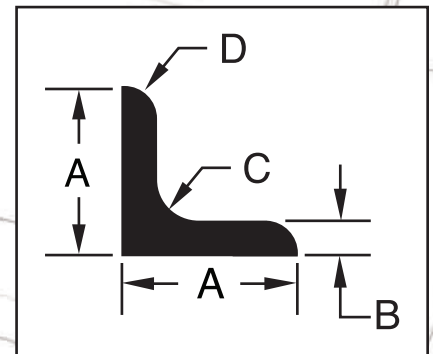


Die Number	Dimension					Weight
#	A	B	C	R	R1	Lb/Ft
1687 **	2.000	3.000	0.250	0.250	0.250	2.646

** Designates dies that run on our P50 press.

AMERICAN STANDARD EQUAL ANGLE

Weight is based on 6061 alloy

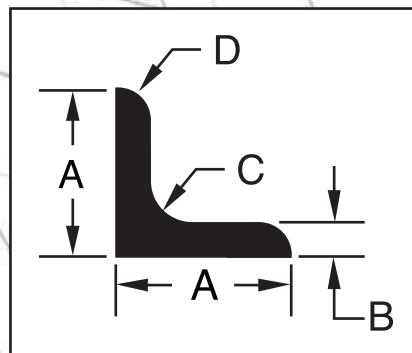


Die Number	Dimension				Weight
#	A	B	C	D	Lb/Ft
1535 **	2.000	0.125	0.250	0.125	0.577
1407 **	2.000	0.188	0.250	0.125	0.849
1148 **	2.000	0.250	0.250	0.125	1.110
1103 **	2.000	0.375	0.250	0.125	1.606
1759 **	2.500	0.250	0.250	0.125	1.404
1879 **	2.500	0.375	0.250	0.125	2.047
1104 **	3.000	0.250	0.312	0.250	1.684
1555 **	3.000	0.375	0.312	0.250	2.474
1461 **	3.000	0.500	0.312	0.250	3.227

** Designates dies that run on our P50 press.

AMERICAN STANDARD EQUAL ANGLE

Weight is based on 6061 alloy

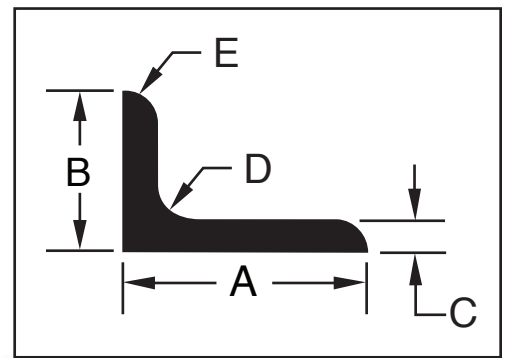


Die Number	Dimension				Weight
#	A	B	C	D	Lb/Ft
1849	3.500	0.375	0.375	0.250	2.926
1105 **	4.000	0.250	0.375	0.250	2.283
1569 **	4.000	0.375	0.375	0.250	3.366
1509 **	5.000	0.375	0.500	0.375	4.267
2018 **	5.000	0.500	0.500	0.375	5.578
1539 **	6.000	0.375	0.500	0.375	5.119
1747	6.000	0.500	0.500	0.375	6.754
1556	6.000	0.625	0.500	0.375	8.352
1733	8.000	0.500	0.625	0.375	9.141

** Designates dies that run on our P50 press.

AMERICAN STANDARD UNEQUAL ANGLE

Weight is based on 6061 alloy

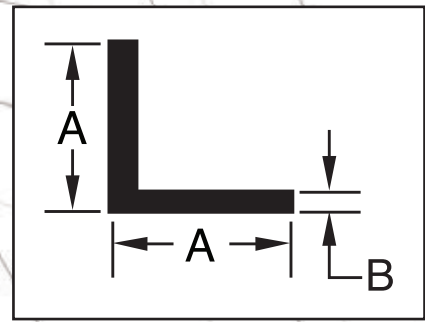


Die Number	Dimension					Weight
#	A	B	C	D	E	Lb/Ft
1936 **	1.500	1.000	0.250	0.188	0.125	0.662
1883 **	2.000	1.500	0.250	0.188	0.125	0.956
1508 **	3.000	2.000	0.188	0.312	0.188	1.071
1106 **	3.000	2.000	0.250	0.312	0.188	1.403
1650 **	3.000	2.000	0.375	0.312	0.188	2.046
1688	4.000	3.000	0.250	0.375	0.250	1.988
1507 **	5.000	3.000	0.375	0.375	0.313	3.349
1503 **	6.000	4.000	0.375	0.500	0.375	4.237
1538 **	6.000	4.000	0.500	0.500	0.375	5.578

** Designates dies that run on our P50 press.

ARCHITECTURAL EQUAL ANGLE

Weight is based on 6061 alloy

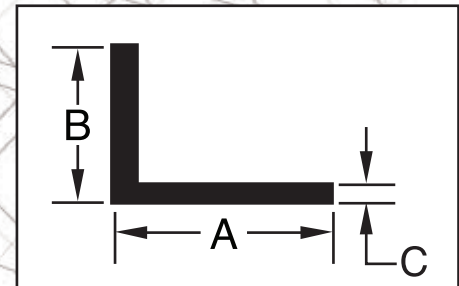


Die Number	Dimension		Weight
#	A	B	Lb/Ft
1384 **	1.500	0.125	0.422
1484 **	1.500	0.250	0.809
1371 **	2.000	0.125	0.569
1740 **	2.000	0.188	0.843
1454 **	2.000	0.250	1.103
1455 **	3.000	0.250	1.691

** Designates dies that run on our P50 press.

ARCHITECTURAL UNEQUAL ANGLE

Weight is based on 6061 alloy

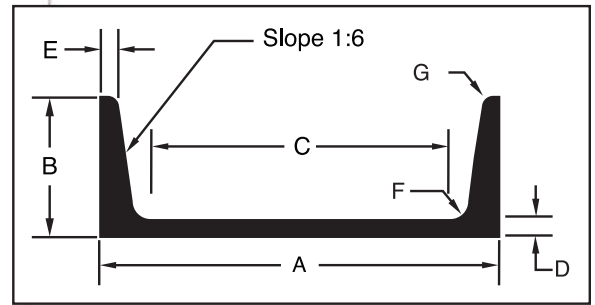


Die Number	Dimension			Weight
#	A	B	C	Lb/Ft
1510 **	2.000	1.500	0.188	0.733
1801 **	2.500	2.000	0.188	0.954
1559 **	4.000	2.000	0.125	0.863
2221 **	4.000	2.000	0.250	1.689

** Designates dies that run on our P50 press.

AMERICAN STANDARD CHANNEL

Weight is based on 6061 alloy

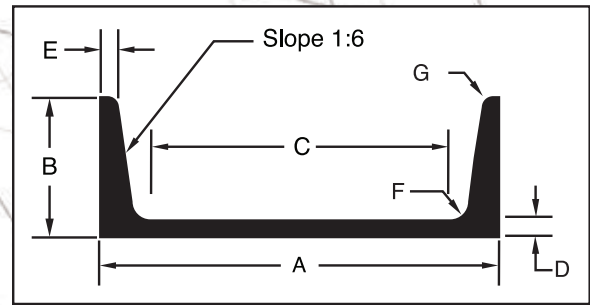


Die Number	Dimension							Weight
#	A	B	C	D	E	F	G	Lb/Ft
1123 **	3.000	1.410	1.750	0.170	0.170	0.270	0.100	1.417
1756 **	3.000	1.498	1.750	0.258	0.170	0.270	0.100	1.729
1124 **	4.000	1.580	2.750	0.180	0.180	0.280	0.110	1.846
1502 **	4.000	1.647	2.750	0.247	0.180	0.280	0.110	2.161
1433 **	4.000	1.720	2.750	0.320	0.180	0.280	0.110	2.504
1329 **	5.000	1.750	3.750	0.190	0.190	0.290	0.110	2.316
1330 **	5.000	1.885	3.750	0.325	0.190	0.290	0.110	3.108
1489 **	6.000	1.920	4.500	0.200	0.200	0.300	0.120	2.826
1125 **	6.000	1.945	4.500	0.225	0.200	0.300	0.120	3.002
1449 **	6.000	2.034	4.500	0.314	0.200	0.300	0.120	3.631
1246 **	8.000	2.290	6.250	0.250	0.220	0.320	0.130	4.252
1940	8.000	2.435	6.250	0.395	0.220	0.320	0.130	5.617
1497	8.000	2.527	6.250	0.487	0.220	0.320	0.130	6.484
1248 **	9.000	2.430	7.250	0.230	0.230	0.330	0.140	4.604
1176	9.000	2.648	7.250	0.448	0.230	0.330	0.140	6.911
1226	10.000	2.600	8.250	0.240	0.240	0.340	0.140	5.278
1254	10.000	2.886	8.250	0.526	0.240	0.340	0.140	8.641
1841	10.000	3.033	8.250	0.673	0.240	0.340	0.140	10.371

** Designates dies that run on our P50 press.

AMERICAN STANDARD CHANNEL

Weight is based on 6061 alloy

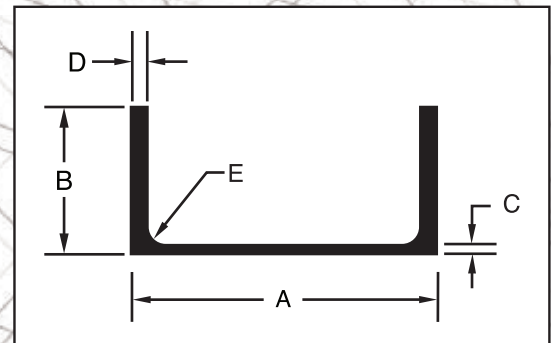


Die Number	Dimension							Weight
#	A	B	C	D	E	F	G	Lb/Ft
1251	12.000	2.960	10.000	0.300	0.280	0.380	0.170	7.411
1939	12.000	3.047	10.000	0.387	0.280	0.380	0.170	8.639
1252	12.000	3.170	10.000	0.510	0.280	0.380	0.170	10.375
1177	15.000	3.400	12.375	0.400	0.400	0.500	0.240	11.708

** Designates dies that run on our P50 press.

ALUMINUM ASSOCIATION CHANNEL

Weight is based on 6061 alloy

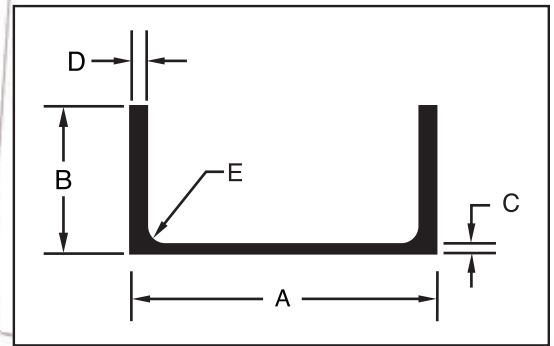


Die Number	Dimension					Weight
#	A	B	C	D	E	Lb/Ft
1693 **	3.000	1.500	0.130	0.200	0.250	1.135
1487 **	4.000	2.000	0.150	0.230	0.250	1.738
1325 **	4.000	2.250	0.190	0.290	0.250	2.331
1941 **	5.000	2.250	0.150	0.260	0.300	2.212
1464 **	5.000	2.750	0.190	0.320	0.300	3.089

** Designates dies that run on our P50 press.

ALUMINUM ASSOCIATION CHANNEL

Weight is based on 6061 alloy

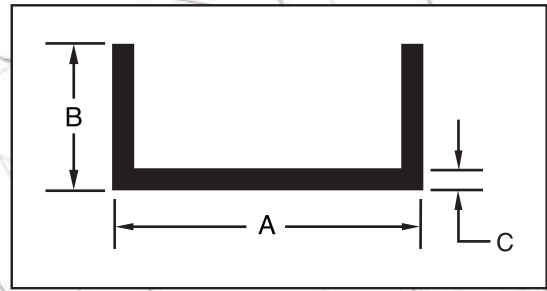


Die Number	Dimension					Weight
#	A	B	C	D	E	Lb/Ft
1448 **	6.000	3.250	0.210	0.350	0.300	4.030
1937 **	7.000	2.750	0.170	0.290	0.300	3.205
1245 **	7.000	3.500	0.210	0.380	0.300	4.715
1247 **	8.000	3.000	0.190	0.350	0.300	4.147
1232	8.000	3.750	0.250	0.410	0.350	5.789
1249	10.000	3.500	0.250	0.410	0.350	6.136
1250	10.000	4.250	0.310	0.500	0.400	8.360
1253	12.000	4.000	0.290	0.470	0.400	8.274
1633	12.000	5.000	0.350	0.620	0.450	11.822

** Designates dies that run on our P50 press.

ARCHITECTURAL CHANNEL

Weight is based on 6061 alloy

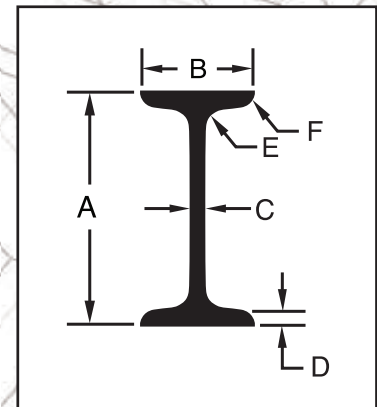


Die Number	Dimension			Weight
#	A	B	C	Lb/Ft
1533 **	2.000	1.000	0.125	0.552
1800 **	3.000	1.000	0.125	0.699
1544 **	3.000	2.000	0.125	0.991
1543 **	4.000	1.500	0.125	0.993
1676 **	4.000	2.000	0.125	1.140
1446 **	8.000	2.000	0.125	1.728

** Designates dies that run on our P50 press.

AMERICAN STANDARD I-BEAM

Weight is based on 6061 alloy

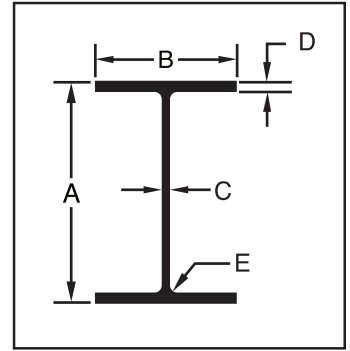


Die Number	Dimension						Weight
#	A	B	C	D	E	F	Lb/Ft
1565 **	4.000	2.660	0.190	0.190	0.290	0.110	2.644
1505 **	6.000	3.330	0.230	0.230	0.330	0.140	4.302
1995	8.000	4.262	0.532	0.270	0.370	0.160	8.813

** Designates dies that run on our P50 press.

ALUMINUM ASSOCIATION I-BEAM

Weight is based on 6061 alloy

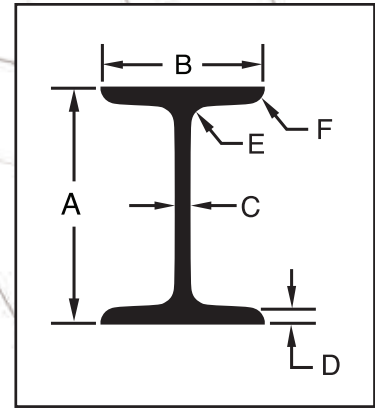


Die Number	Dimension					Weight
#	A	B	C	D	E	Lb/Ft
1537 **	4.000	3.000	0.170	0.290	0.250	2.793
1675 **	5.000	3.500	0.190	0.320	0.300	3.700
1493 **	6.000	4.000	0.190	0.290	0.300	4.030
1729	6.000	4.000	0.210	0.350	0.300	4.692
1642 **	7.000	4.500	0.230	0.380	0.300	5.800
1361	8.000	5.000	0.230	0.350	0.300	6.181
1684	8.000	5.000	0.250	0.410	0.300	7.023
1938	9.000	5.500	0.270	0.440	0.300	8.361
1685	10.000	6.000	0.250	0.410	0.400	8.646
1632	10.000	6.000	0.290	0.500	0.400	10.287
1388	12.000	7.000	0.290	0.470	0.400	11.672
1686	12.000	7.000	0.310	0.620	0.400	14.292
1629	14.000	8.000	0.300	0.600	0.400	15.967

** Designates dies that run on our P50 press.

AMERICAN STANDARD H-BEAM

Weight is based on 6061 alloy

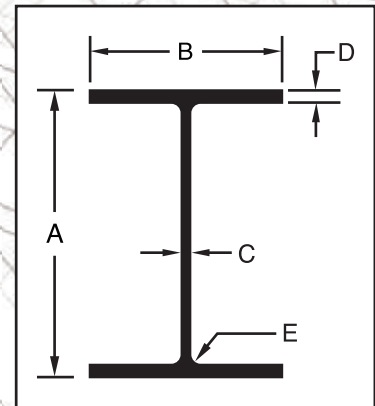


Die Number	Dimension						Weight
#	A	B	C	D	E	F	Lb/Ft
1281	5.000	5.000	0.313	0.330	0.313	0.165	6.494
1498	6.000	5.938	0.250	0.360	0.313	0.180	7.853

** Designates dies that run on our P50 press.

AMERICAN STANDARD WIDE FLANGE BEAM

Weight is based on 6061 alloy

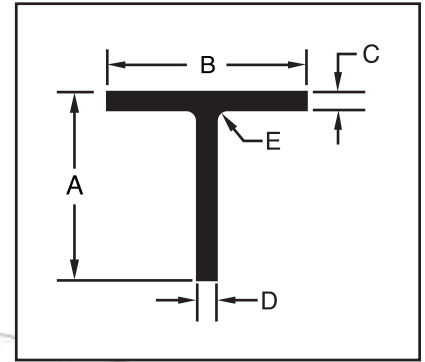


Die Number	Dimension						Weight
#	A	B	C	D	E	Lb/Ft	
1269 **	6.000	4.000	0.230	0.279	0.250	4.161	
2019 **	8.000	5.250	0.230	0.308	0.320	5.904	
1512	8.000	8.000	0.288	0.433	0.400	10.725	

** Designates dies that run on our P50 press.

CANADIAN TEE

Weight is based on 6061 alloy

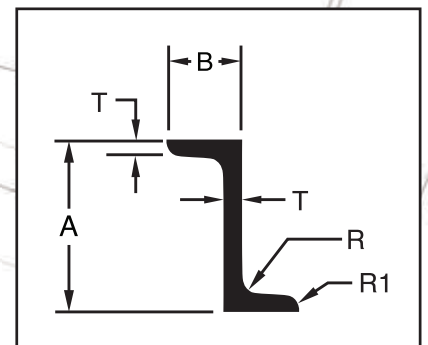


Die Number	Dimension					Weight
#	A	B	C	D	E	Lb/Ft
1227	4.000	4.000	0.375	0.375	0.375	3.434

** Designates dies that run on our P50 press.

AMERICAN STANDARD ZEE

Weight is based on 6061 alloy



Die Number	Dimension					Weight
#	A	B	T	R	R1	Lb/Ft
1949 **	3.000	2.688	0.250	0.312	0.250	2.333
2017 **	4.125	3.188	0.375	0.312	0.250	4.300

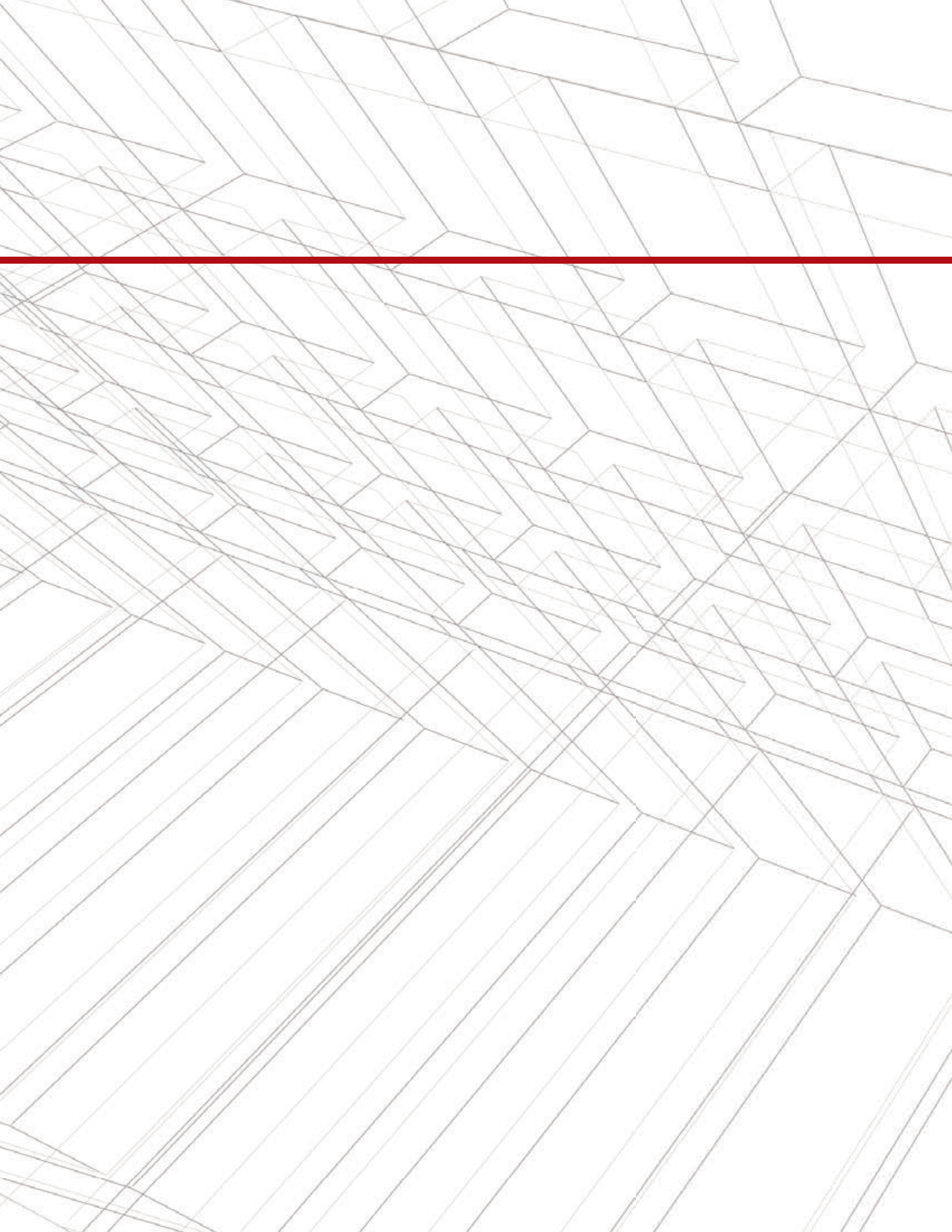
** Designates dies that run on our P50 press.



NOTES

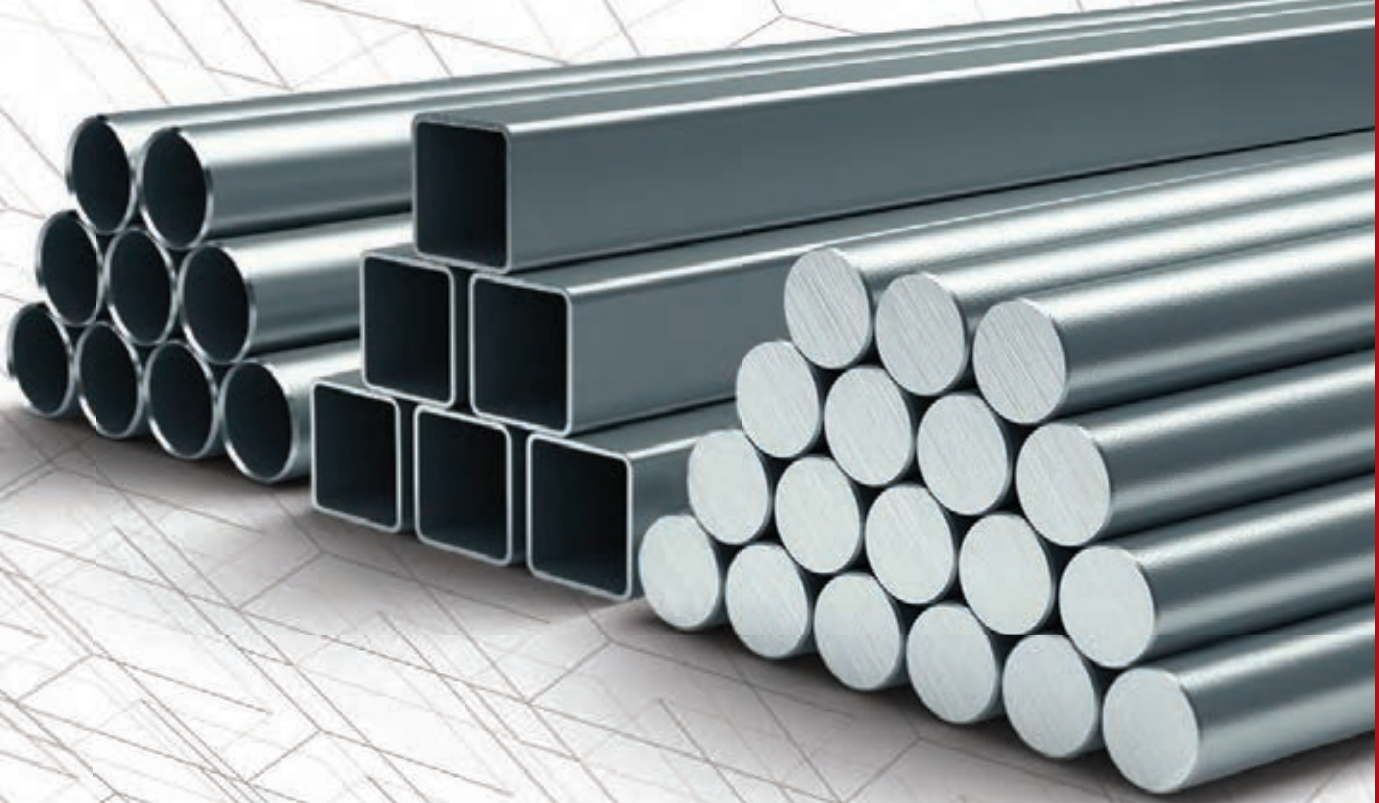
Lined area for taking notes, consisting of 20 horizontal lines.







**THANK YOU FOR
CHOOSING NANSHAN.**



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