



WESTERN
E X T R U S I O N S

STANDARD SHAPES

AVAILABLE WITHOUT DIE CHARGES

EFFECTIVE MAY, 2019

WESTERN EXTRUSIONS CORPORATION

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CARROLLTON, TEXAS 75006

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GENERAL INFORMATION

WESTERN EXTRUSIONS CUSTOMER SERVICE:

- PHONE (972) 245-7515
- TOLL FREE: (800) 888-6063
- FAX: (972) 245-2980

FINISHES AVAILABLE:

- MILL
- PRETREAT
- PAINT
- ANODIZE
 - CLEAR
 - COLOR BRITE DIP
 - POLISH AND BRITE DIP
 - MECHANICAL FINISHES AND BRITE DIP
 - TWO STEP ELECTROLYTIC BRONZE AND BLACK

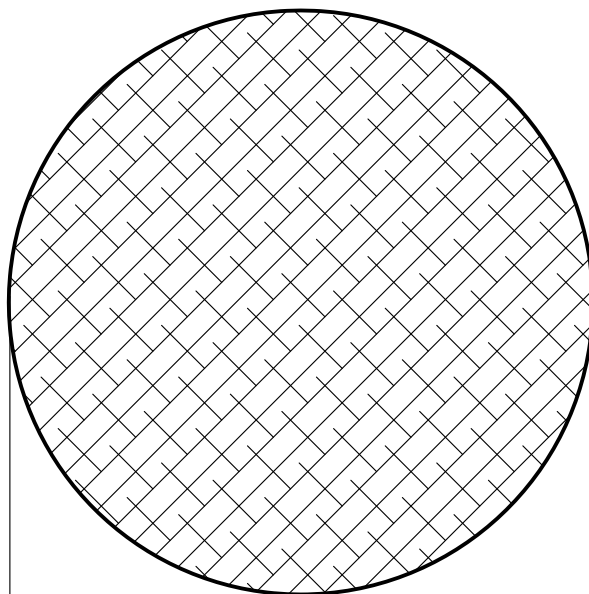
STANDARD ALLOYS:

- | | |
|-------|-----------------------------------|
| -6005 | -SHARP CORNERS BROKEN AT 0.020 R. |
| -6061 | -SHARP CORNERS BROKEN AT 0.020 R. |
| -6063 | -SHARP CORNERS BROKEN AT 0.015 R. |
| -6463 | -SHARP CORNERS BROKEN AT 0.015 R. |
| -6351 | -SHARP CORNERS BROKEN AT 0.020 R. |

ALL SHAPES ARE PRODUCED TO ORDER. NO STANDARD SHAPES ARE KEPT IN STOCK.

OTHER STANDARD SHAPES THAT ARE NOT LISTED MAY BE AVAILABLE WITHOUT DIE COST. PLEASE CONTACT YOUR CUSTOMER SERVICE REPRESENTATIVE FOR MORE INFORMATION

ROD



← DIA. →

ROD

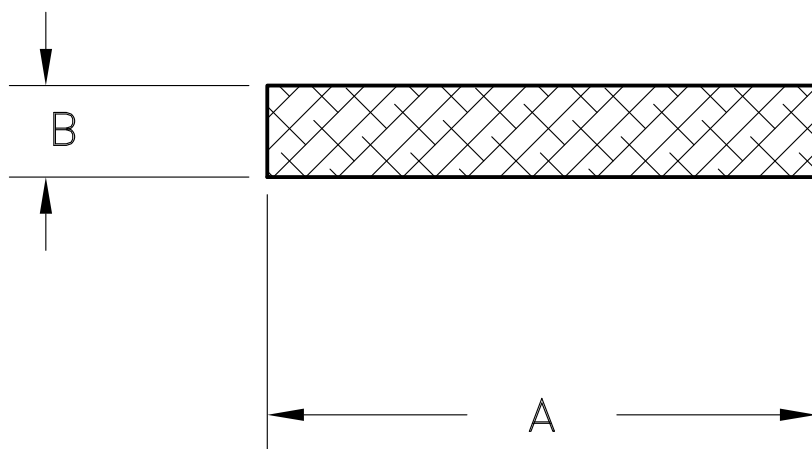
DIE No.	DIAMETER	WT/FT	PERIMETER
19475	0.312	0.091	0.980
19859	0.375	0.132	1.178
19820	0.500	0.235	1.571
19753	0.625	0.368	1.963
19373	0.688	0.446	2.161
19817	0.750	0.530	2.356
19895	0.875	0.721	2.749
19446	0.938	0.829	2.947
19905	1.000	0.942	3.142
19903	1.125	1.193	3.534
19909	1.250	1.472	3.927
19427	1.312	1.622	4.122
19426	1.375	1.782	4.320
19933	1.500	2.120	4.712
19888	1.750	2.886	5.498
19951	1.910	3.438	6.000
19730	2.000	3.770	6.283

ROD

[illegible]

RECTANGULAR BAR

SHARP CORNERS



RECTANGULAR BAR SHARP CORNERS

DIE No.	A	DIM	B	WT/FT	PERIM
19760	0.750	X	0.187	0.169	1.858
19681	0.750	X	0.375	0.337	2.224
19866	1.000	X	0.125	0.150	2.233
19803	1.000	X	0.250	0.300	2.473
19843	1.000	X	0.313	0.376	2.626
19786	1.000	X	0.375	0.450	2.750
19791	1.000	X	0.500	0.600	3.000
19802	1.250	X	0.187	0.281	2.858
19547	1.250	X	0.250	0.376	3.000
19578	1.250	X	0.500	0.750	3.500
19468	1.375	X	0.125	0.206	3.000
19647	1.500	X	0.125	0.226	3.250
19879	1.500	X	0.250	0.450	3.483
19798	1.500	X	0.375	0.676	3.750
19033	1.500	X	0.375	0.676	3.750
19033 (FOR 6463/T5 OR T6 ORDERS ONLY)					
19968	1.500	X	0.500	0.900	4.000
19433	1.500	X	0.625	1.126	4.250
19764	1.750	X	0.187	0.394	3.858
19585	1.750	X	0.500	1.050	4.500
19055	1.811	X	0.125	0.271	3.838

RECTANGULAR BAR SHARP CORNERS

DIE No.	A	DIM	B	WT/FT	PERIM
19944	2.000	X	0.125	0.300	4.233
19893	2.000	X	0.187	0.449	4.357
19877	2.000	X	0.250	0.600	4.483
14781	2.000	X	0.250	0.600	4.483
DIE 14781 (FOR 6463 ALLOY ORDERS ONLY)					
19767	2.000	X	0.375	0.900	4.733
19792	2.000	X	0.500	1.200	5.000
19432	2.000	X	0.625	1.500	5.250
19965	2.000	X	0.750	1.800	5.500
19678	2.000	X	1.000	2.400	5.974
19404	2.000	X	1.500	3.600	7.000
19571	2.250	X	0.125	0.337	4.750
19763	2.250	X	0.187	0.506	4.858
19179	2.250	X	0.250	0.676	5.000
DIE 19179 SPECIAL TOLERANCES ON DIMENSION 2.250 ±0.010					
19481	2.500	X	0.188	0.563	5.375
19541	2.500	X	0.250	0.750	5.500
19716	2.500	X	0.375	1.124	5.724
19768	2.500	X	0.500	1.500	6.000
19412	2.500	X	0.625	1.874	6.250
19772	2.500	X	0.750	2.250	6.500
19601	3.000	X	0.125	0.450	6.250
19761	3.000	X	0.187	0.674	6.358
19761 (FOR 6061 & 6005 ORDERS ONLY)					

RECTANGULAR BAR SHARP CORNERS

DIE No.	A	DIM	B	WT/FT	PERIM
19601	3.000	X	0.125	0.450	6.250
19761	3.000	X	0.187	0.674	6.358
19761 (FOR 6061 & 6005 ORDERS ONLY)					
19785	3.000	X	0.375	1.350	6.750
19717	3.000	X	0.500	1.800	6.974
19596	3.000	X	1.000	3.600	8.000
19355	3.300	X	0.250	0.990	7.100
19655	3.500	X	0.250	1.050	7.500
19522	3.500	X	2.100	2.100	8.000
19613	4.000	X	0.125	0.600	8.250
19784	4.000	X	0.250	1.176	8.500
19250	4.000	X	0.250	1.200	8.500
19250 (FOR 6463/6063 ORDERS ONLY)					
19680	4.000	X	0.375	1.800	8.724
14776	4.000	X	0.375	1.800	8.724
14776 (FOR 6463 ALLOY ORDERS ONLY)					
19779	4.000	X	0.500	2.400	9.000
19410	4.000	X	0.625	3.000	9.250
19409	4.000	X	0.750	3.600	9.500
19245	4.000	X	2.000	9.600	12.000

RECTANGULAR BAR SHARP CORNERS

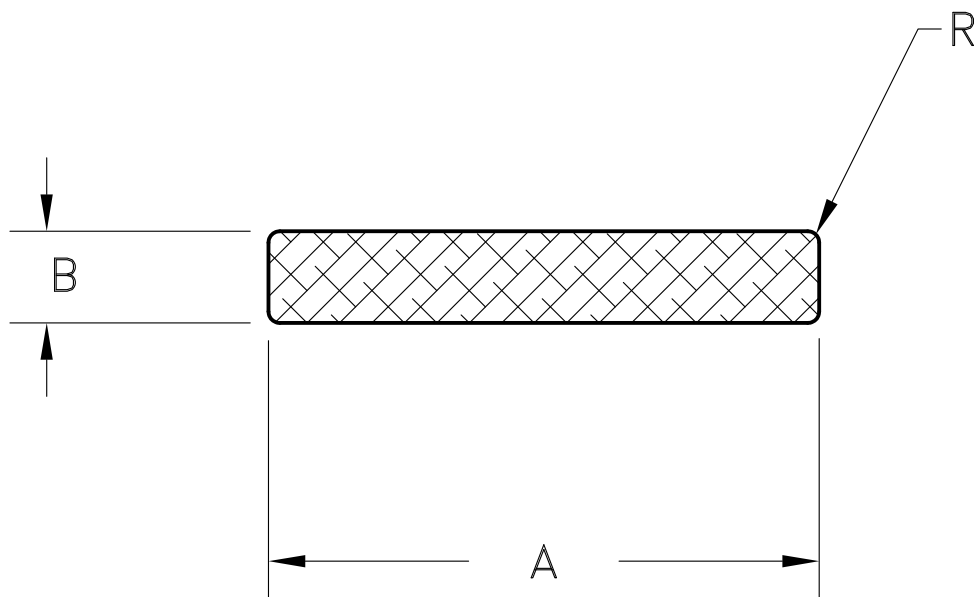
DIE No.	A	DIM	B	WT/FT	PERIM
19040	4.500	X	0.250	1.350	9.500
19040 (FOR 6061/6005A ORDERS ONLY)					
19953	4.500	X	0.250	1.350	9.500
19953 (FOR 6463/6063 ORDERS ONLY)					
19483	5.000	X	0.250	1.500	10.500
19738	5.000	X	0.375	2.250	10.750
14777	5.000	X	0.375	2.250	10.750
14777 (FOR 6463 ORDERS ONLY)					
19622	5.000	X	0.500	3.000	11.000
19064	5.000	X	0.625	3.750	11.224
19242	5.000	X	0.750	4.500	11.500
19243	5.000	X	1.500	9.000	13.000
19241	5.000	X	2.000	12.000	14.000
19191	6.000	X	0.188	1.327	12.376
19701	6.000	X	0.250	1.800	12.474
19113	6.000	X	0.313	2.250	12.625
19633	6.000	X	0.375	2.700	12.750
19718	6.000	X	0.500	3.600	12.974
19642	6.000	X	0.625	4.500	13.250
19390	6.000	X	0.750	5.400	13.500
19246	6.000	X	1.000	7.200	14.000
19244	6.000	X	1.500	10.800	15.000
19215	8.000	X	0.375	3.528	16.750
19277	8.000	X	0.500	4.800	17.000
19304	12.000	X	0.250	3.600	24.500
19354	12.000	X	0.340	4.896	24.680
19305	12.000	X	0.375	5.400	24.750
19279	12.000	X	0.500	7.200	25.000

RECTANGULAR BAR SHARP CORNERS

DIE No.	A	DIM	B	WT/FT	PERIM

RECTANGULAR BAR

ROUNDED CORNERS



RECTANGULAR BAR ROUND CORNERS

DIE No.	A	DIM	B	R	WT/FT	PERIM
19920	0.750	X	0.125	0.062	0.108	1.644
19177	0.750	X	0.250	0.062	0.221	1.894
19394	1.000	X	0.125	0.031	0.149	2.197
19527	1.000	X	0.500	0.125	0.584	2.785
19251	1.250	X	0.250	0.125	0.359	2.785
19208	1.250	X	0.375	0.125	0.546	3.035
19827	1.250	X	0.625	0.094	0.929	3.589
19514	1.250	X	0.875	0.093	1.303	4.090
19172	1.500	X	0.188	0.094	0.322	3.215
19524	1.500	X	0.500	0.125	0.884	3.785
19055	1.811	X	0.125	0.020	0.271	3.838
19892	2.000	X	0.250	0.062	0.584	4.394
14775	2.000	X	0.250	0.062	0.584	4.394
14775 (FOR 6463 ORDERS ONLY)						
19543	2.000	X	0.500	0.250	1.135	4.571
14779	2.000	X	0.500	0.250	1.135	4.571
14779 (FOR 6463 ORDERS ONLY)						
19930	2.335	X	0.109	0.054	0.304	4.815
19193	2.750	X	0.313	0.156	0.985	5.857
19066	3.000	X	0.750	0.156	2.675	7.232

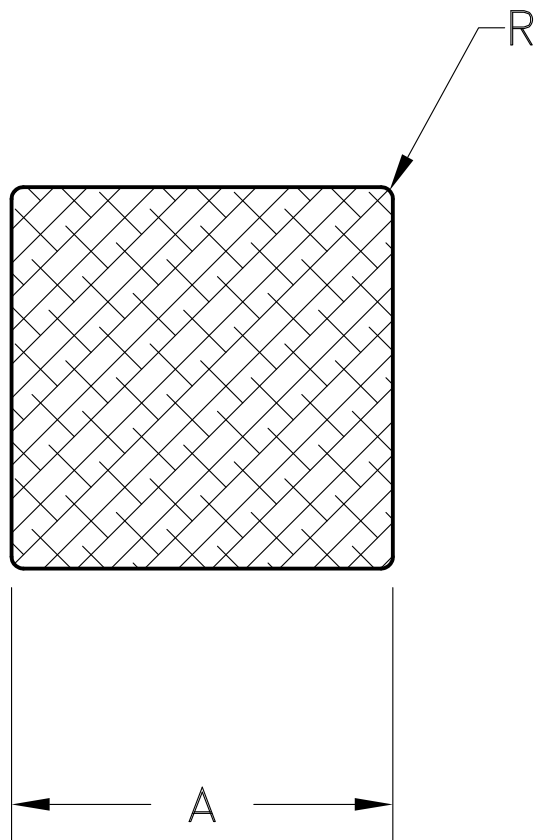
RECTANGULAR BAR ROUND CORNERS

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RECTANGULAR BAR ROUND CORNERS

DIE No.	A	DIM	B	R	WT/FT	PERIM

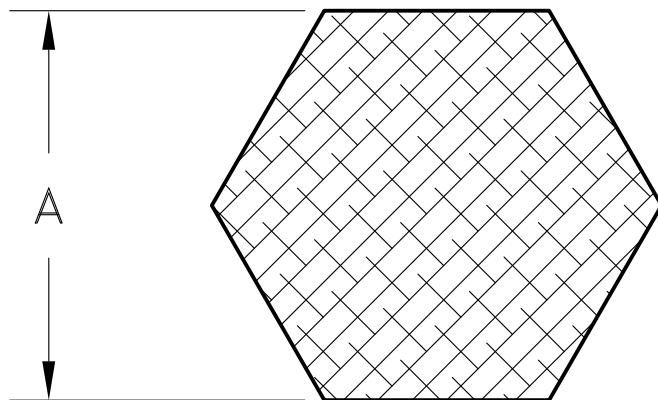
SQUARE BAR



SQUARE BAR

DIE No.	A	R	WT/FT	PERIM
19783	0.500		0.300	2.000
19606	0.500	0.075	0.294	1.866

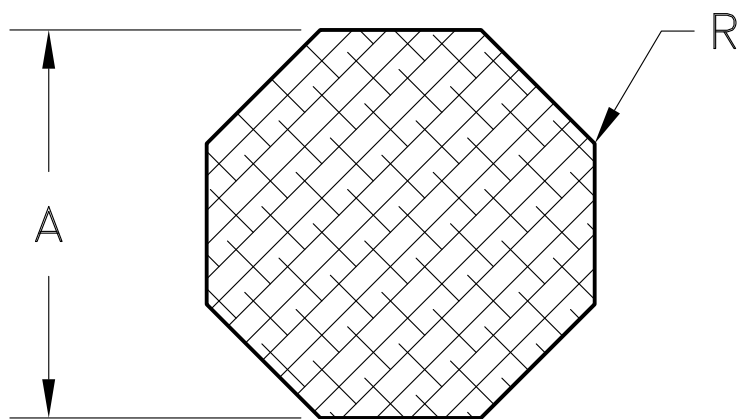
HEXAGONAL BAR



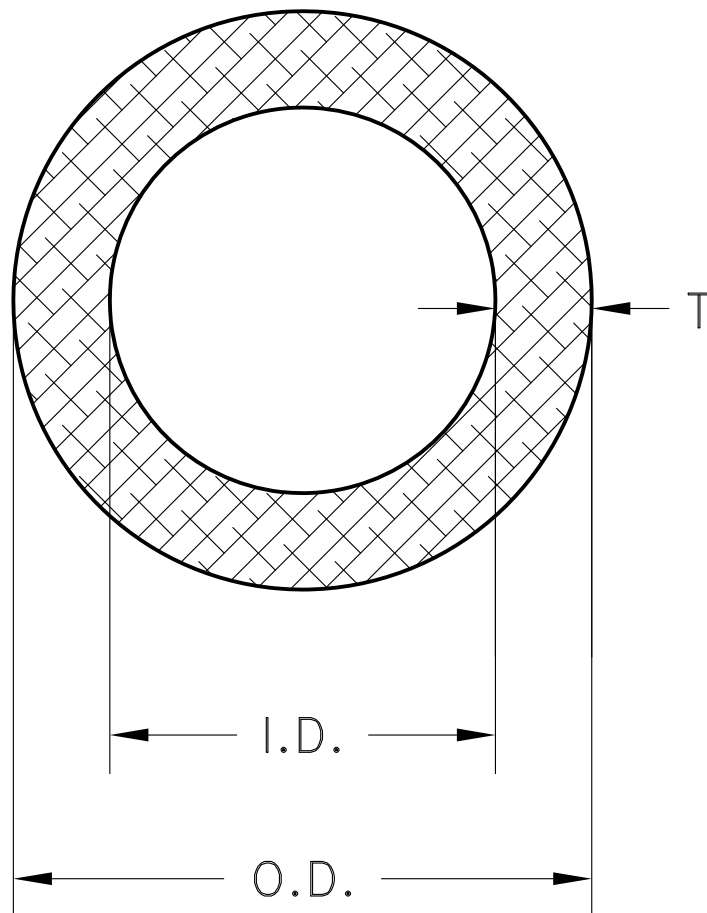
HEXAGONAL BAR

DIE No.	A	WT/FT	PERIM

OCTAGONAL BAR



ROUND TUBE



**PERIMETER EQUALS SUM OF INSIDE AND OUTSIDE PERIMETERS

ROUND TUBE

DIE No.	O.D.	I.D.	T	WT/FT	PERIM
H 19561	0.715	0.565	0.075	0.181	4.021
H 19719	0.750	0.500	0.125	0.295	3.927
H 19577	0.750	0.620	0.065	0.168	4.304
H 19452	0.850	0.650	0.100	0.282	4.712
H 19708	0.875	0.625	0.125	0.353	4.712
H 19463	0.875	0.685	0.095	0.277	4.904
H 19545	0.875	0.749	0.063	0.192	5.102
H 19765	1.000	0.750	0.125	0.412	5.510
H 19176	1.125	0.875	0.125	0.472	6.283
H 19851	1.250	1.000	0.125	0.530	7.069
H 19602	1.500	1.000	0.250	1.178	7.854
H 19782	1.500	1.250	0.125	0.648	8.639
H 14782	1.500	1.250	0.125	0.648	8.639
H 14782 (FOR 6463 ORDERS ONLY)					
H 19264	1.820	1.433	0.194	1.187	10.220
H 19573	1.890	1.622	0.134	0.888	11.034
H 19048	2.000	1.250	0.375	2.297	10.210
H 19105	2.000	1.624	0.188	1.284	11.397
H 19045	2.000	1.750	0.125	0.884	11.781
H 19045 (6463 FOR BRITE DIP ORDERS ONLY)					
H 19560	2.000	1.750	0.125	0.884	11.781
H 19047	2.000	1.750	0.125	0.884	11.781
H 19047 (6463 FOR BRITE DIP ORDERS ONLY)					

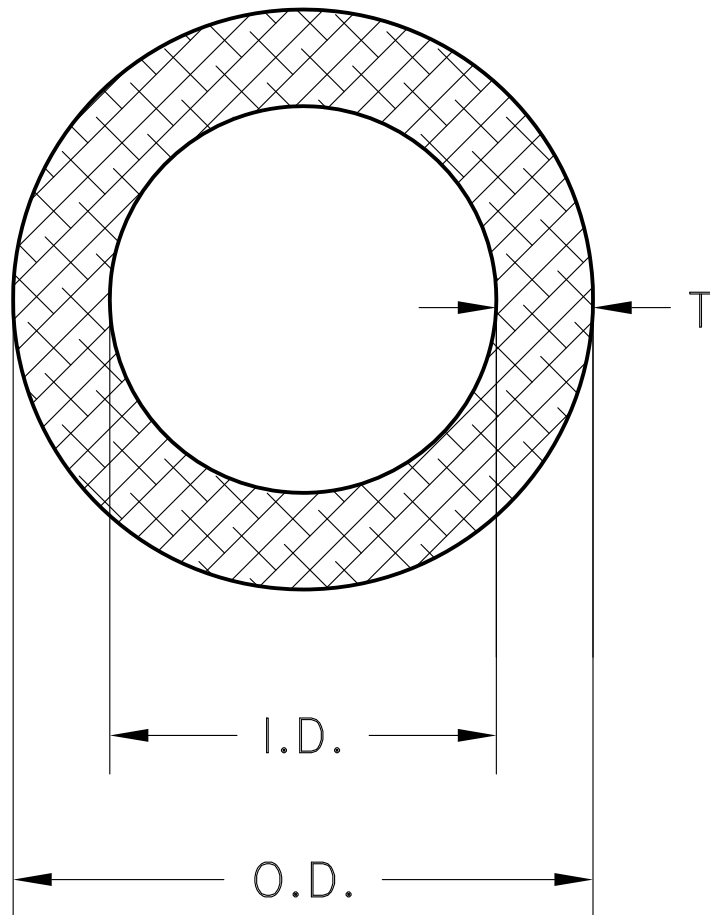
ROUND TUBE

DIE No.	O.D.	I.D.	T	WT/FT	PERIM
H 19942	2.000	1.870	0.065	0.475	12.158
H 19457	2.150	1.900	0.125	0.955	12.723
H 19086	2.365	1.939	0.213	1.724	13.525
H 19183	2.375	2.000	0.188	1.546	13.744
H 19952	2.375	2.193	0.091	0.784	14.351
H 19129	2.500	2.125	0.188	1.635	14.530
H 19732	2.500	2.250	0.125	1.120	14.923
H 19334	2.855	2.699	0.078	0.817	17.448
H 19897	3.000	2.500	0.250	2.592	17.279
H 19128	3.000	2.675	0.188	1.988	17.671
H 19544	3.000	2.750	0.125	1.355	18.064
H 19132	3.125	2.907	0.109	1.240	18.950
H 19126	3.500	3.124	0.188	2.341	20.813
H 19041	3.500	3.188	0.156	1.967	21.011
H 19127	3.500	3.250	0.125	1.590	21.206
H 19611	4.000	3.500	0.250	3.534	23.562
H 19216	4.000	3.750	0.125	1.825	24.347
H 19131	4.000	3.856	0.072	1.066	24.680
H 19124	5.000	4.375	0.313	5.522	29.452
H 19119	5.500	5.000	0.250	4.948	32.987

ROUND TUBE

DIE No.	O.D.	I.D.	T	WT/FT	PERIM
H 19119	5.500	5.000	0.250	4.948	32.987
H 19118	6.000	5.500	0.250	5.419	36.129
H 19123	6.500	5.500	0.500	11.310	37.699

PIPE
SCHEDULED PIPE



ANSI/ASME STANDARDS B36.10M AND B36.19M
**PERIMETER EQUALS SUM OF INSIDE AND OUTSIDE PERIMETERS

SCHEDULED PIPE

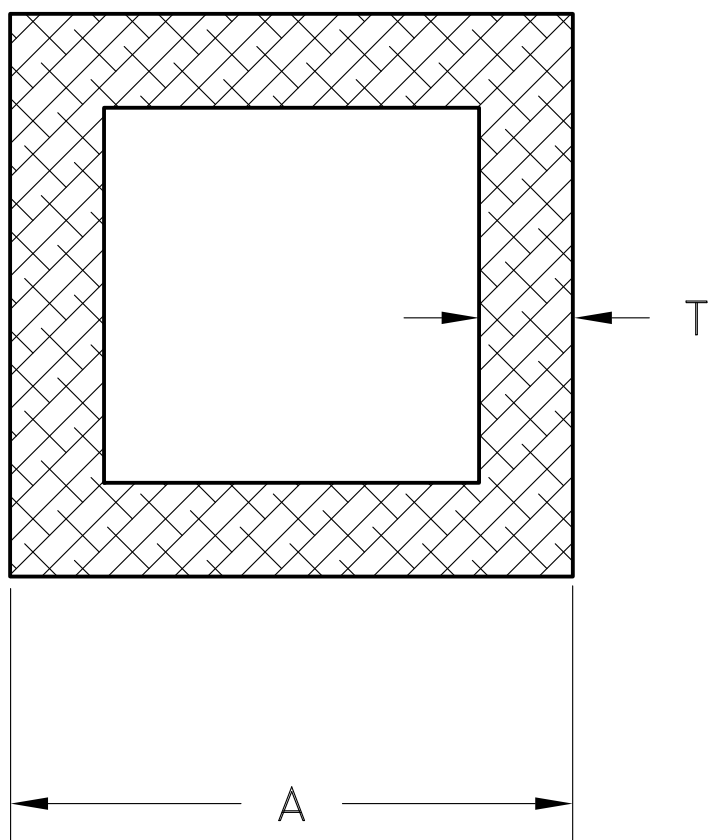
DIE No.	NOM.	SCHED.	O.D.	I.D.	T	WT/FT	PERIM
H 19799	1/2	40	0.840	0.622	0.109	0.300	4.593
H 19988	3/4	40	1.050	0.824	0.113	0.400	5.888
H 19911	1	40	1.315	1.049	0.133	0.581	7.427
H 19947	1 1/4	40	1.660	1.380	0.140	0.802	9.550
H 19382	1 1/4	80	1.660	1.278	0.191	1.057	9.230
H 19046	1 1/4	80	1.660	1.278	0.191	1.057	9.230
H 19046 (6463 FOR BRITE DIP ORDERS ONLY)							
H 19946	1 1/2	40	1.900	1.610	0.145	0.959	11.027
H 19237	1 1/2	80	1.890	1.503	0.194	1.238	10.660
H 19603	1 1/2	80	1.890	1.503	0.194	1.238	10.660
H 19603 (6463 FOR BRITE DIP ORDERS ONLY)							
H 19809	2	10	2.375	2.157	0.109	0.913	14.237
H 19969	2	40	2.375	2.067	0.154	1.290	13.955
H 19383	2	80	2.375	1.939	0.218	1.772	13.553
H 19383 (6463 FOR BRITE DIP ORDERS ONLY)							
H 19808	2 1/2	10	2.875	2.635	0.120	1.247	17.310
H 19459	2 1/2	40	2.875	2.469	0.203	2.045	16.789
H 19473	3	40	3.485	3.053	0.216	2.662	20.539
H 24505	3	40	3.485	3.053	0.216	2.662	20.539
H 24505 (6463 FOR BRITE DIP ORDERS ONLY)							
H 19255	3	80	3.500	2.900	0.300	3.619	20.107
H 19474	4	40	4.500	4.026	0.237	3.809	26.785
H 19065	8	40	8.625	7.981	0.322	10.069	52.171

SCHEDULED PIPE

DIE No.	NOM.	SCHED.	O.D.	I.D.	T	WT/FT	PERIM
H 19117	10	40	10.75	10.02	0.365	14.29	65.251

SQUARE TUBE

SHARP CORNERS



** PERIMETER EQUALS SUM OF INSIDE AND OUTSIDE PERIMETER

SQUARE TUBE SHARP CORNERS

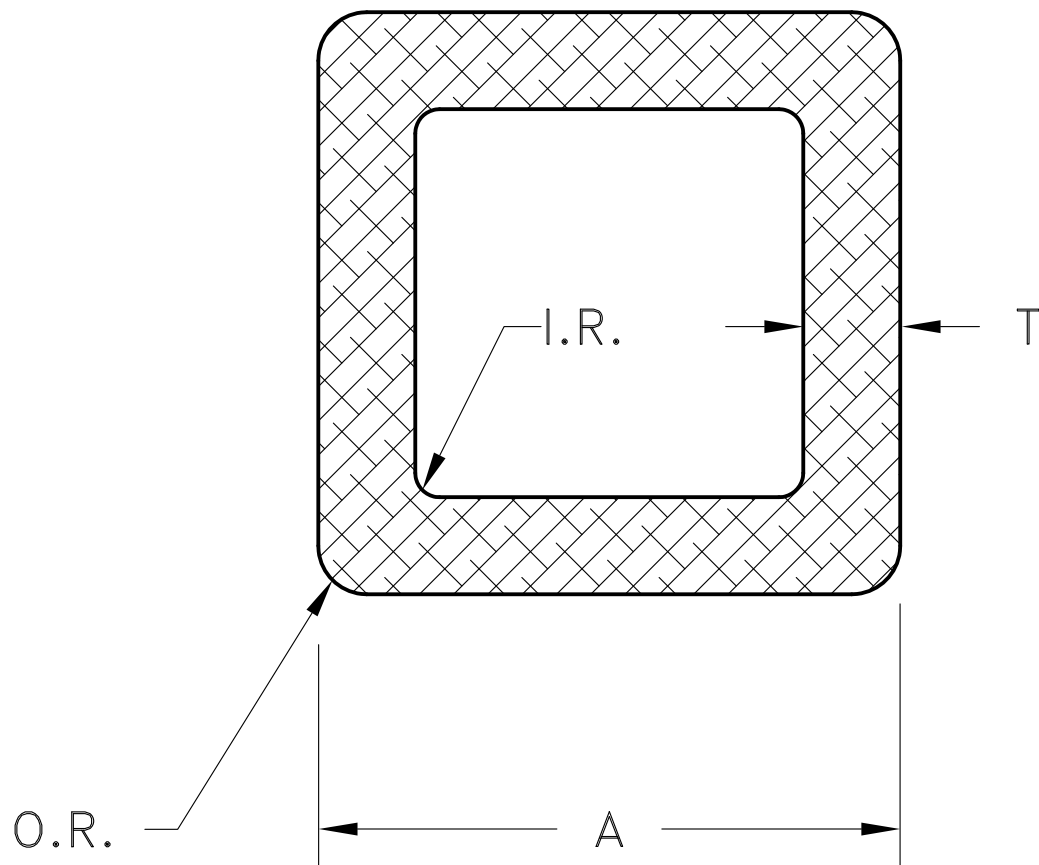
DIE NO.	A	T	WT/FT	PERIM
H 19521	0.750	0.062	0.204	5.504
H 19549	1.000	0.050	0.228	7.600
H 19620	1.000	0.125	0.526	7.000
H 19149	1.250	0.093	0.517	9.256
H 19607	1.250	0.125	0.674	9.000
H 19623	1.500	0.062	0.428	11.504
H 19148	1.500	0.093	0.628	11.256
H 19302	1.750	0.125	0.974	13.000
H 19550	2.000	0.065	0.604	15.480
H 19301	2.000	0.090	0.826	15.280
H 19598	2.000	0.125	1.124	15.000
H 19326	2.000	0.250	2.100	13.932
H 19280	3.000	0.125	1.724	23.000
H 19303	3.000	0.250	3.300	22.000
H 19449	4.000	0.125	2.324	31.000
H 19276	4.000	0.188	3.440	30.496
H 19361	4.000	0.250	4.500	30.000
H 19266	4.000	0.500	8.400	28.000
H 19281	6.000	0.125	3.524	47.000

SQUARE TUBE SHARP CORNERS

DIE NO.	A	T	WT/FT	PERIM

SQUARE TUBE

ROUNDED CORNERS



** PERIMETER EQUALS SUM OF INSIDE AND OUTSIDE PERIMETER

SQUARE TUBE ROUND CORNERS

DIE No.	A	T	IR	OR	WT/FT	PERIM
H 19300	0.750	0.045	0.044	0.093	0.145	5.404
H 19393	0.750	0.062	0.031	0.093	0.197	5.291
H 19285	0.750	0.125		0.093	0.366	4.840
H 19588	1.000	0.062	0.031	0.094	0.270	7.290
H 19397	1.000	0.067	0.156	0.156	0.300	6.928
H 19583	1.000	0.088	0.031	0.094	0.377	7.082
H 19556	1.000	0.094		0.030	0.408	7.196
H 19818	1.000	0.125		0.062	0.522	6.868
H 19396	1.000	0.125	0.089	0.156	0.508	6.579
H 19221	1.000	0.125	0.063	0.125	0.503	6.677
H 19206	1.000	0.125		0.141	0.504	6.758
H 19462	1.125	0.074	0.060	0.125	0.361	8.090
H 19748	1.250	0.072	0.053	0.125	0.394	9.118
	USE 19500	FOR 6463	BRITE DIP	ORDERS	ONLY	
H 19962	1.250	0.093	0.032	0.090	0.516	9.074
H 19312	1.250	0.125		0.125	0.659	8.796
H 19141	1.375	0.156	0.125	0.156	0.904	9.270
H 19465	1.500	0.090	0.098	0.188	0.583	10.789
H 19923	1.500	0.125	0.090	0.031	0.832	10.792

SQUARE TUBE ROUND CORNERS

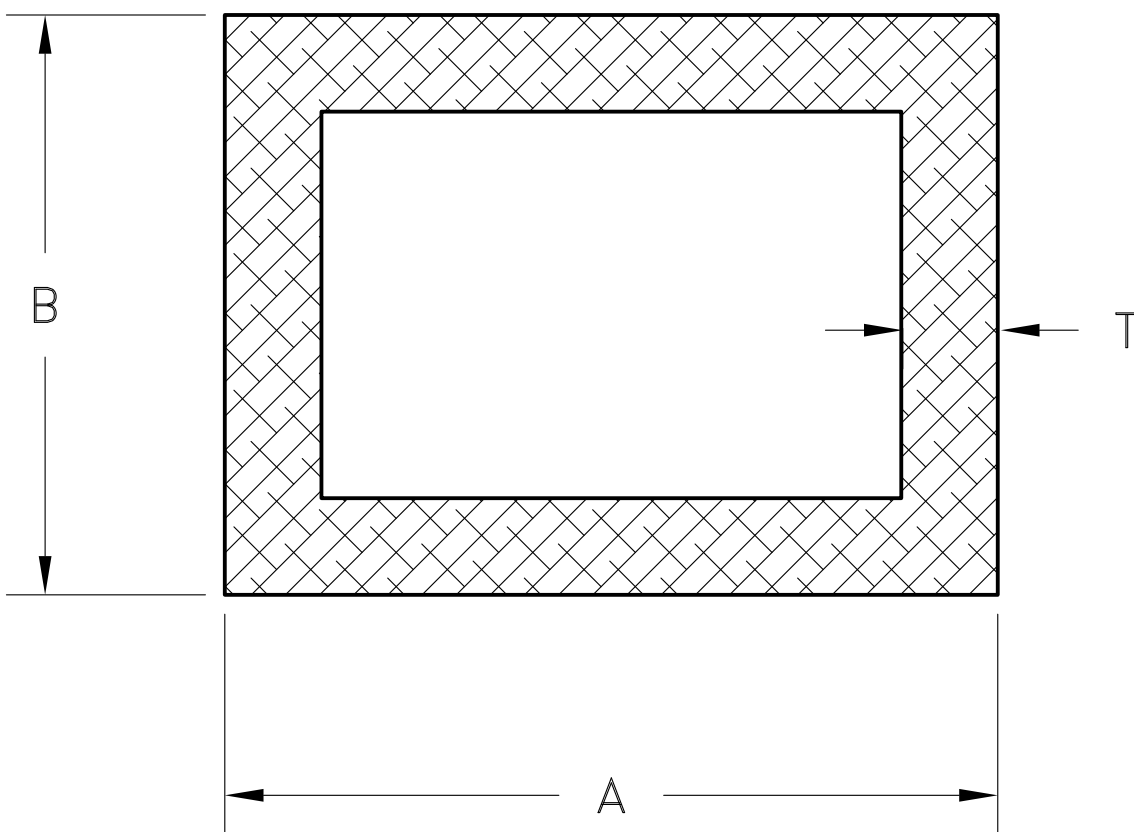
DIE No.	A	T	IR	OR	WT/FT	PERIM
H 19931	1.750	0.125	0.062	0.188	0.943	12.571
H 19314	2.000	0.125	0.030	0.125	1.110	14.745
H 19207	2.000	0.125	0.080	0.188	1.096	14.540
H 19966	2.000	0.125	0.125	0.125	1.126	14.570
H 19346	2.000	0.125	0.125	0.250	1.076	14.356
H 19702	2.000	0.188	0.031	0.031	1.634	14.390
H 19143	2.000	0.188	0.250	0.406	1.530	13.381
H 19707	2.000	0.250		0.250	2.035	13.554
H 19299	2.000	0.250	0.125	0.250	2.051	13.356
H 19917	2.500	0.125	0.090	0.031	1.432	18.792
H 19867	3.000	0.187	0.031	0.031	2.525	22.398
H 19323	3.000	0.250	0.031	0.187	3.265	21.626
H 19262	3.100	0.375	0.031	0.016	4.906	21.720
H 19365	4.000	0.125	0.250	0.125	2.374	30.356
H 19838	4.000	0.250	0.250	0.125	4.549	29.356
H 19034	4.000	0.375	0.250	0.250	6.525	28.142
H 19098	6.000	0.188	0.125	0.125	5.245	46.067
H 19038	6.000	0.500	0.250	0.250	13.200	43.142
H 19100	8.000	0.188	0.125	0.125	7.050	62.067
H 19039	8.000	0.500	0.250	0.750	17.485	58.283
H 19035	10.000	0.375	0.375	0.375	17.325	75.724

SQUARE TUBE ROUND CORNERS

DIE No.	A	T	IR	OR	WT/FT	PERIM

RECTANGULAR TUBE

SHARP CORNERS



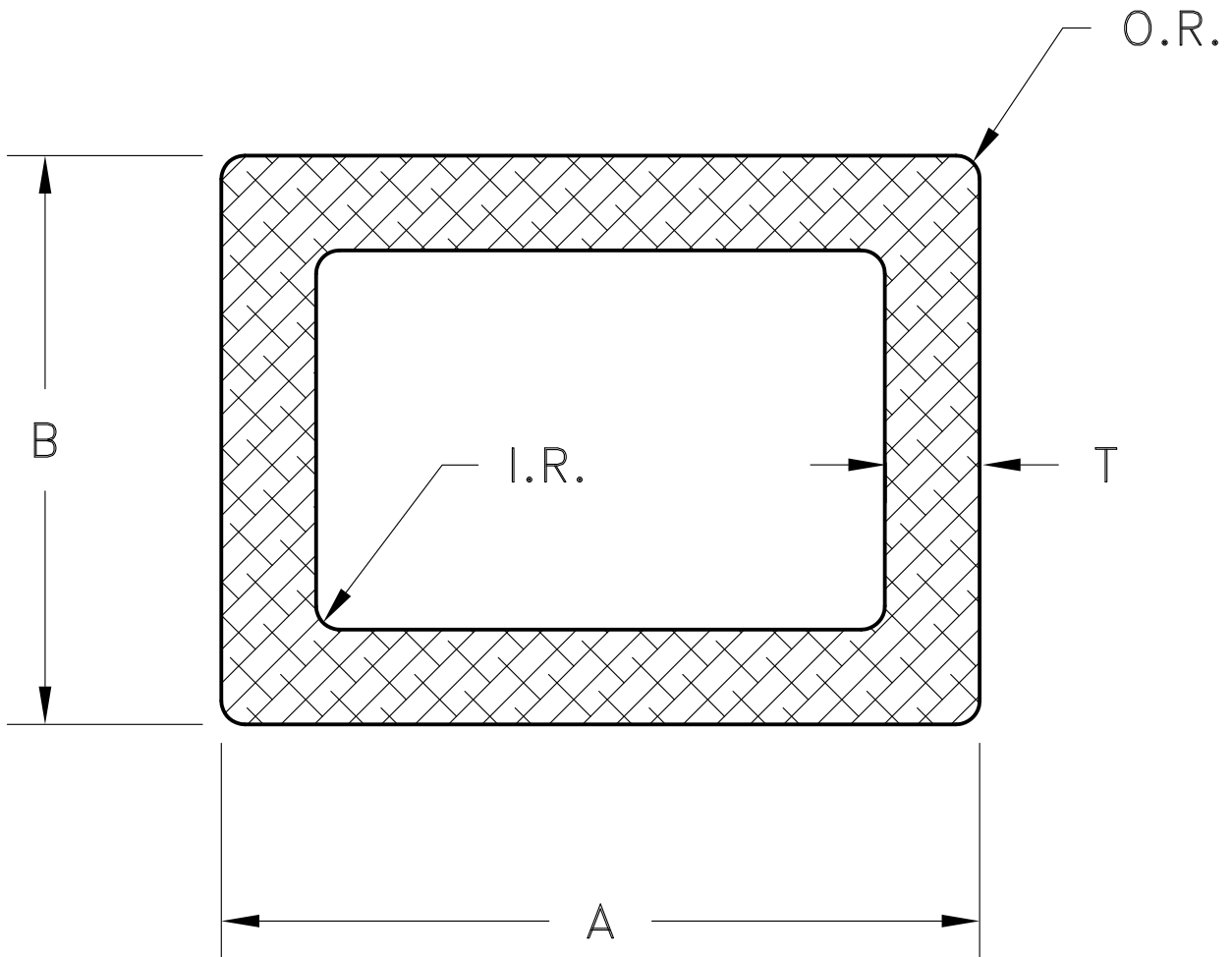
** PERIMETER EQUAL SUM OF INSIDE AND OUTSIDE PERIMETER

RECTANGULAR TUBE SHARP CORNERS

DIE No.	A	DIM	B	T	WT/FT	PERIM
H 19821	1.500	X	0.750	0.062	0.317	8.477
H 19510	2.000	X	1.000	0.125	0.824	11.000
H 19192	2.250	X	1.750	0.125	1.102	15.000
H 19619	2.500	X	1.250	0.125	1.050	14.000
H 19599	3.000	X	2.000	0.125	1.424	19.000
H 19847	4.000	X	1.750	0.115	1.524	22.080
H 19450	4.000	X	2.000	0.125	1.800	23.000
H 19130	4.000	X	2.000	0.250	3.300	21.945
H 19385	4.500	X	1.250	0.212	2.710	21.315
H 19834	4.500	X	1.750	0.115	1.662	24.080
H 19755	5.000	X	2.000	0.125	2.026	27.000
H 19357	6.000	X	2.000	0.125	2.324	31.000
H 19356	8.000	X	2.000	0.125	2.924	39.000

RECTANGULAR TUBE

ROUNDED CORNERS



** PERIMETER EQUALS SUM OF INSIDE AND OUTSIDE PERIMETER

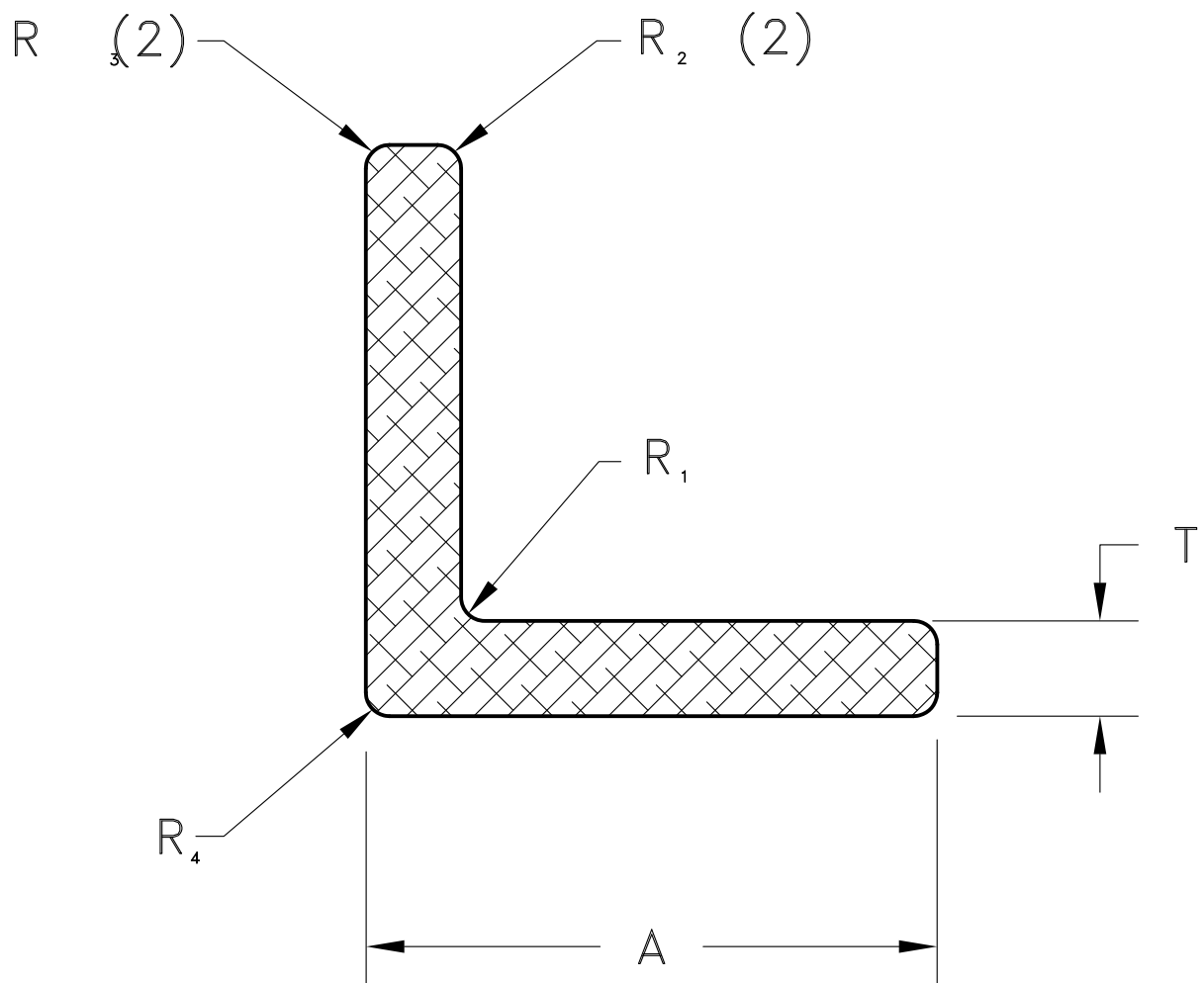
RECTANGULAR TUBE ROUND CORNERS

DIE No.	A	DIM	B	T	IR	OR	WT/FT	PERIM
H 19195	1.500	X	1.000	0.062		0.015	0.335	9.478
H 19152	1.500	X	1.000	0.062	0.062	0.062	0.354	9.291
H 19458	2.000	X	1.000	0.125	0.109	0.125	0.822	10.598
(USE H 19458 FOR BRITE DIP ORDERS ONLY)								
H 19889	2.000	X	1.500	0.125	0.031		0.976	12.947
H 19146	3.000	X	1.000	0.188	0.031	0.031	1.631	14.394
H 19924	3.000	X	2.000	0.125	0.090	0.030	1.432	18.792
H 19070	3.000	X	2.000	0.125	0.125	0.125	1.425	18.571
H 19922	3.000	X	2.000	0.250	0.090	0.031	2.707	17.792
H 19253	4.000	X	2.000	0.125	0.090	0.188	1.697	22.522
H 19212	4.000	X	2.000	0.125	0.125	0.250	1.676	22.356
H 19518	4.000	X	2.000	0.188	0.125		2.554	22.281
H 19160	4.000	X	2.000	0.250	0.062	0.250	3.240	21.464
H 19530	4.000	X	3.000	0.125	0.125	0.125	2.026	26.570
H 19210	5.000	X	2.000	0.125	0.063	0.125	2.014	26.677
H 19929	6.000	X	3.000	0.125	0.125	0.125	2.626	34.570
H 19366	6.000	X	4.000	0.150	0.062	0.125	3.480	38.479
H 19291	6.000	X	4.000	0.250	0.025	0.025	5.700	37.914
H 19072	8.000	X	4.000	0.150/0.190	0.125	0.125	4.567	46.211
H 19329	8.000	X	4.000	0.250	0.125		6.916	45.785
H 19330	8.000	X	4.000	0.250	0.125	0.125	6.900	45.570
H 19054	8.000	X	6.000	0.500	0.250	0.250	15.600	51.142
H 19061	10.000	X	2.000	0.125	0.031	0.031	3.525	46.907

RECTANGULAR TUBE ROUND CORNERS

DIE No.	A	DIM	B	T	IR	OR	WT/FT	PERIM
H 19062	12.000	X	2.000	0.190	0.031	0.031	6.211	54.385

ANGLE
EQUAL LEGS



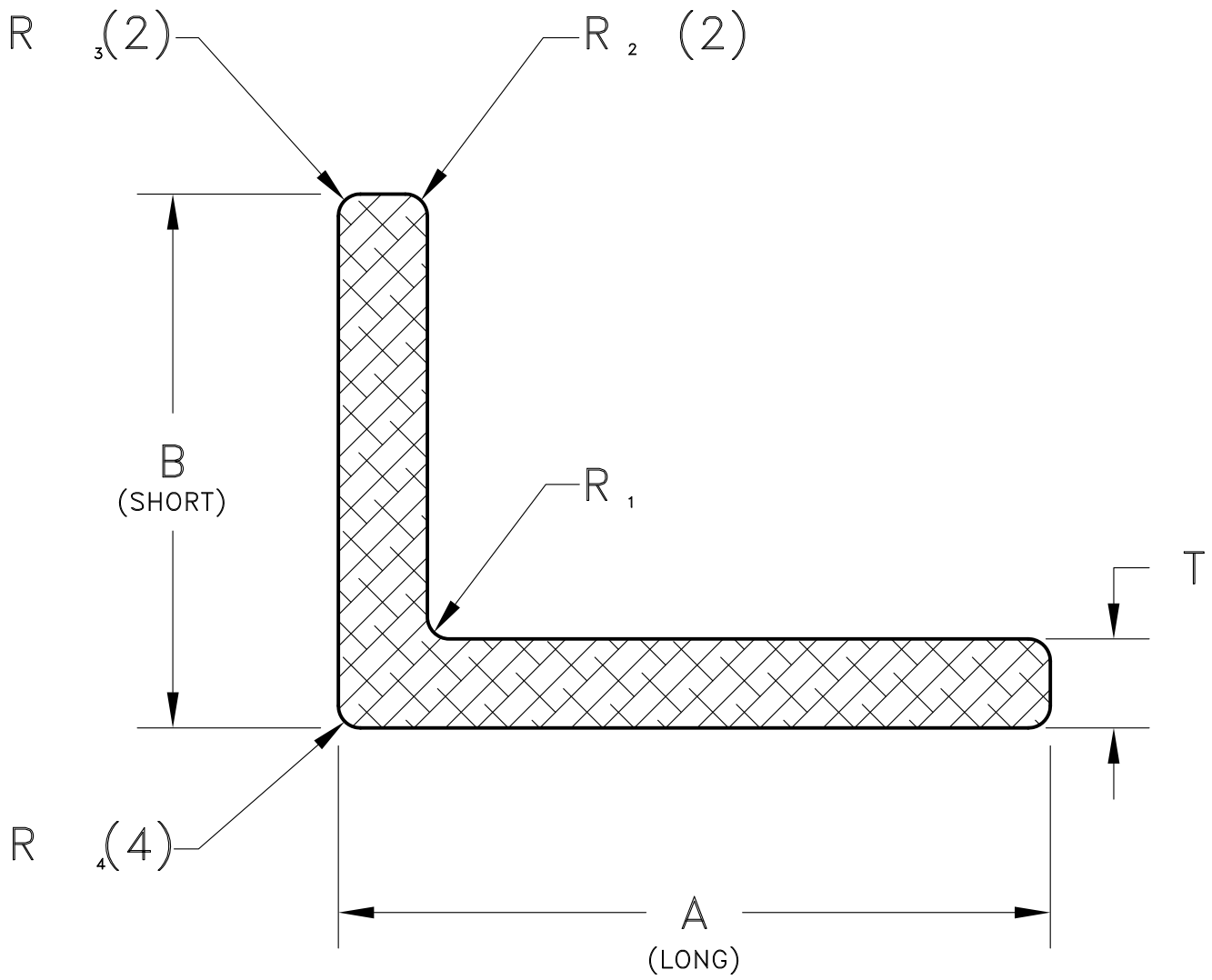
ANGLES EQUAL LEGS

DIE No.	A	T	R1	R2	R3	R4	WT/FT	PERIM
19913	0.500	0.125					0.131	2.000
19812	0.750	0.125					0.206	3.000
19575	1.000	0.062					0.144	4.000
19807	1.000	0.094		0.094			0.210	3.919
19994	1.000	0.125					0.281	3.959
19806	1.000	0.125		0.062	0.062	0.125	0.274	3.840
19743	1.250	0.125					0.356	5.000
19461	1.250	0.188	0.125				0.526	4.946
19932	1.500	0.125					0.431	6.000
19880	1.500	0.187					0.631	6.000
19864	1.500	0.250					0.824	6.000
19084	1.750	0.188	0.015	0.015	0.015	0.015	0.747	7.000
19511	2.000	0.125					0.581	8.000
19194	2.000	0.188					0.841	8.000
19878	2.000	0.250					1.124	8.000

ANGLES EQUAL LEGS

DIE No.	A	T	R1	R2	R3	R4	WT/FT	PERIM
19028	2.000	0.250	0.250	0.125	0.015	0.015	1.133	7.785
DIE 19028 (FOR 6463 ALLOY ORDERS ONLY)								
19940	2.500	0.187					1.080	10.000
19618	3.000	0.125					0.881	12.000
19154	3.000	0.313					2.093	12.000
19224	6.000	0.375	0.375				5.163	23.839

ANGLE
UNEQUAL LEGS



ANGLES UNEQUAL LEGS

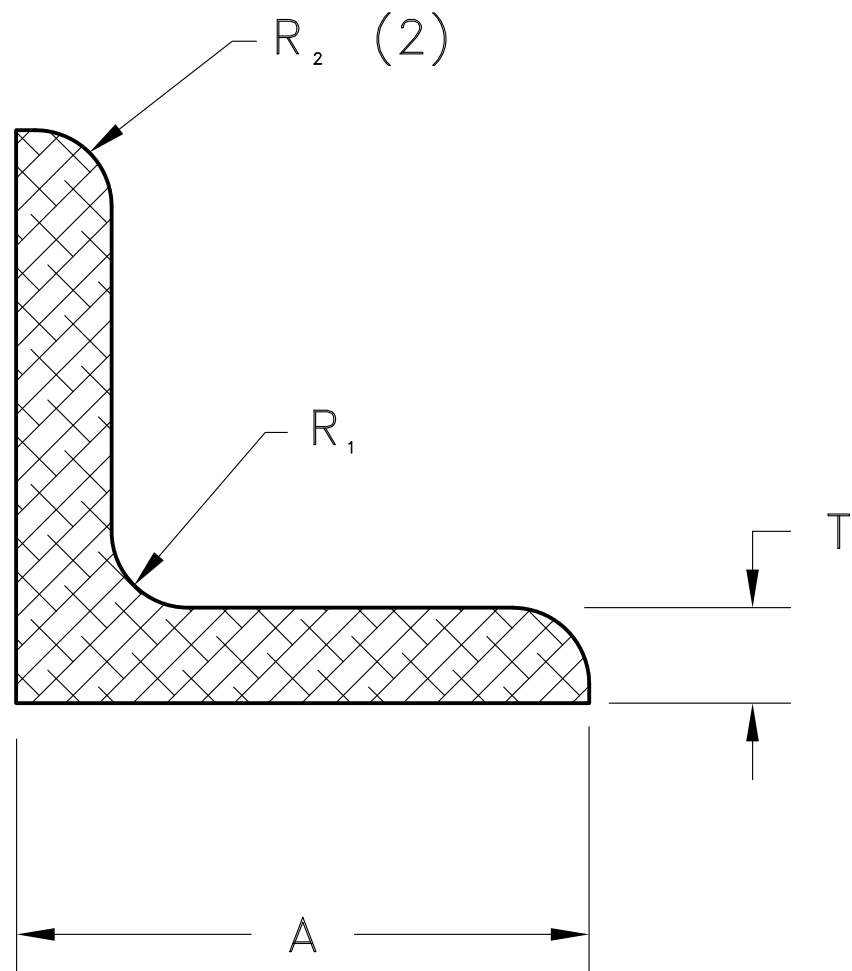
DIE NO.	A	B	T	R1	R2	R3	R4	WT/FT	PERIM
19133	0.666	0.563	0.063					0.088	2.458
19675	1.000	0.500	0.125					0.206	3.000
19766	1.500	0.500	0.125					0.281	4.000
19683	1.500	0.750	0.125					0.319	4.463
19744	1.500	1.000	0.125					0.356	4.993
19111	1.500	1.000	0.187					0.520	5.000
19085	1.500	1.250	0.188	0.015	0.015	0.015	0.015	0.578	5.500
19263	2.000	0.562	0.188					5.535	5.124
19891	2.000	1.000	0.062					0.218	6.000
19670	2.000	1.000	0.250					0.824	5.961
19810	2.000	1.500	0.125					0.506	7.000
19110	2.000	1.500	0.187					0.744	7.000
19686	2.000	1.750	0.250					1.050	7.461
19060	2.125	1.375	0.125					0.506	6.961
19203	2.175	1.175	0.175	SHARP	0.088			0.658	6.523
19466	2.500	1.500	0.125					0.581	8.011
19092	2.500	1.500	0.188					0.860	8.000
19112	2.500	1.500	0.250					1.125	8.000
19747	3.000	2.000	0.094					0.553	10.000
19516	3.000	2.000	0.125					0.731	10.000
19559	3.000	2.000	0.250					1.426	10.000
19052	3.375	1.375	0.375	0.020	0.188	0.188	0.188	1.924	9.089

ANGLES UNEQUAL LEGS

DIE NO.	A	B	T	R1	R2	R3	R4	WT/FT	PERIM
19685	3.500	1.250	0.125					0.694	9.461
19205	4.000	2.000	0.188					1.312	12.000
19986	4.000	2.000	0.250					1.724	11.959
19211	4.500	2.000	0.188/0.250	0.062	0.094/.125		0.250	1.531	12.678

STRUCTURAL ANGLE

EQUAL LEGS

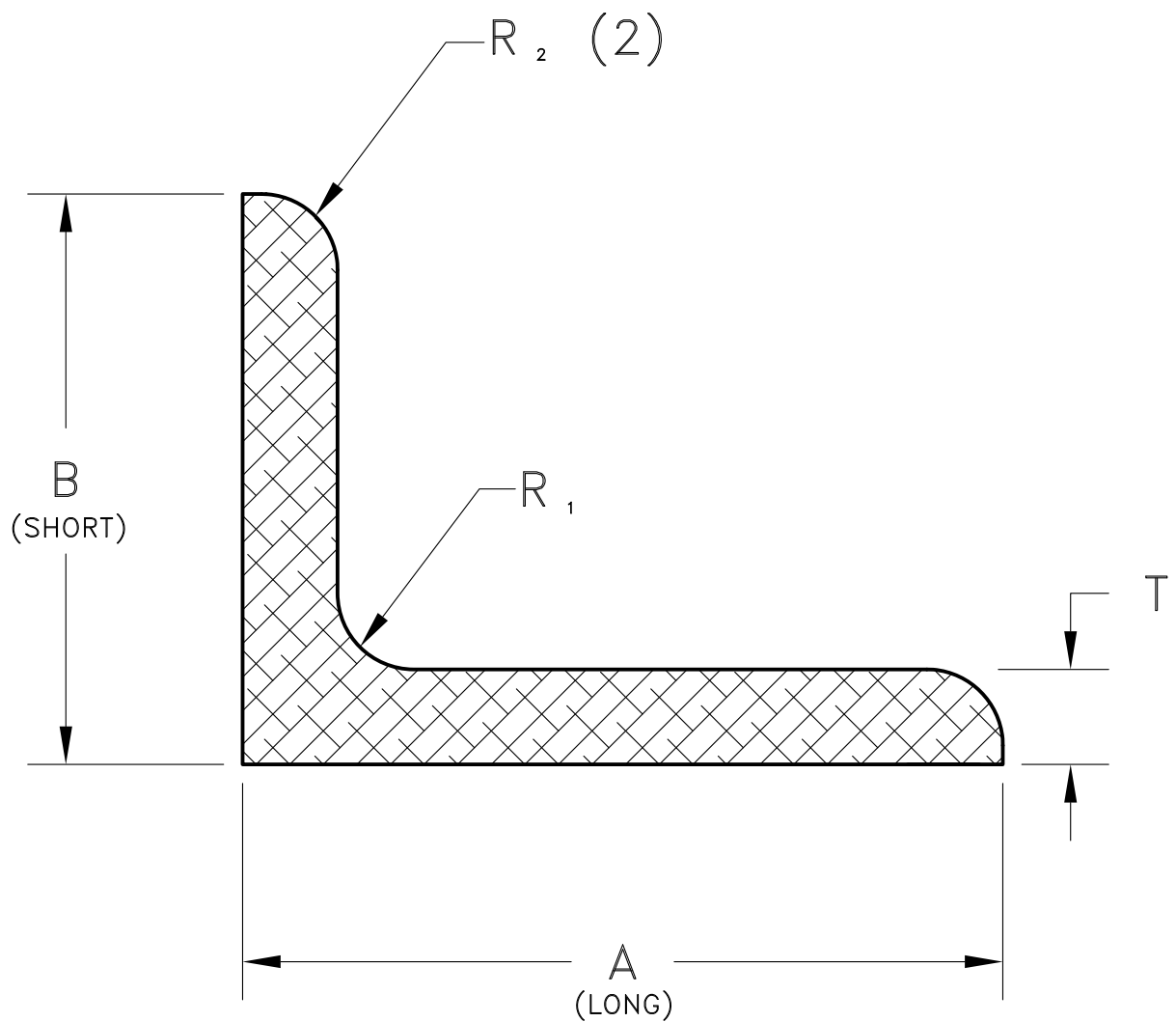


STRUCTURAL ANGLES EQUAL LEGS

DIE No.	A	T	R1	R2	WT/FT	PERIM
19890	1.000	0.125	0.125	0.093	0.281	3.867
19461	1.250	0.188	0.125		0.526	4.946
19671	1.500	0.125	0.188	0.125	0.432	5.795
19995	1.500	0.187	0.187	0.125	0.632	5.808
19990	2.000	0.125	0.250	0.125	0.589	7.766
19677	2.000	0.188	0.250	0.125	0.865	7.766
19855	2.000	0.250	0.250	0.125	1.133	7.785
19662	2.000	0.375	0.250	0.125	1.639	7.785
19664	2.500	0.188	0.250	0.125	1.093	9.785
19668	2.500	0.250	0.250	0.125	1.433	9.766
19739	3.000	0.250	0.312	0.250	1.720	11.656
19076	3.000	0.313	0.312	0.250	2.125	11.612
19667	3.000	0.375	0.312	0.250	2.524	11.651
19234	3.500	0.250	0.375	0.250	2.029	13.624
19075	4.000	0.250	0.375	0.250	2.329	15.589
19189	4.000	0.375	0.375	0.281	3.427	15.598
19074	5.000	0.500	0.500	0.375	5.691	19.424
19028	2.000	0.250	0.250	0.125	1.133	7.785
19028 (FOR 6463 ALLOY ONLY)						

STRUCTURAL ANGLE

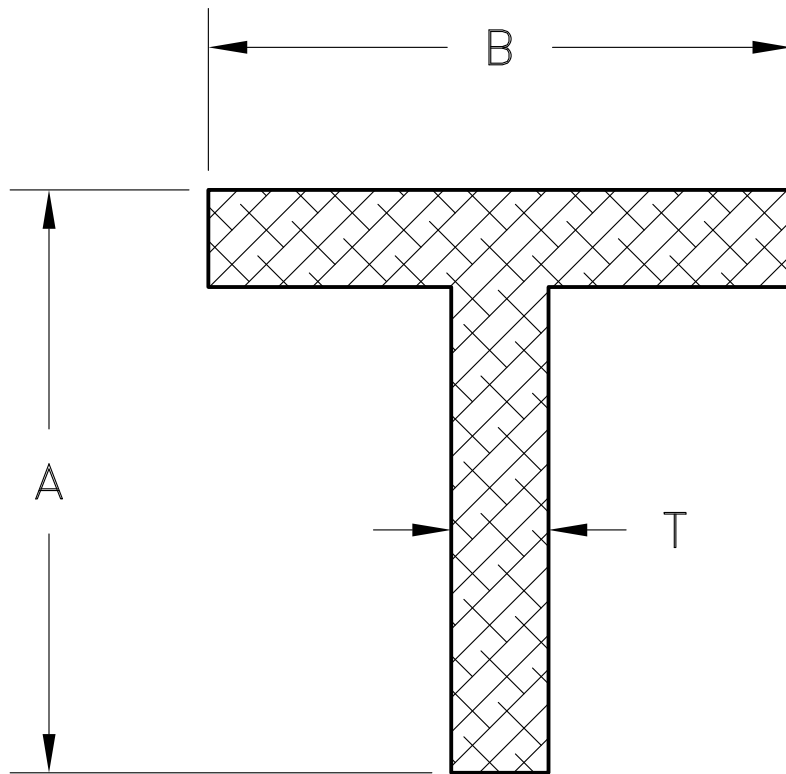
UNEQUAL LEGS



STRUCTURAL ANGLES UNEQUAL LEGS

DIE NO.	A	B	T	R1	R2	WT/FT	PERIM
19121	1.750	1.250	0.188	0.188	0.125	0.635	0.812
19692	2.000	1.500	0.125	0.188	0.125	0.508	6.812
19705	2.500	2.000	0.188	0.250	0.125	0.980	8.785
19201	3.000	2.000	0.188	0.312	0.188	1.070	9.705
19395	3.000	2.000	0.188	0.250	0.188	1.084	9.731
19236	3.000	2.000	0.250	0.312	0.188	1.432	9.705
19476	3.000	2.000	0.375	0.312	0.188	2.088	9.705
19771	4.000	3.000	0.250	0.375	0.250	2.024	13.625
19231	4.000	3.000	0.375	0.375	0.250	2.986	13.624
19140	5.000	3.000	0.375	0.375	0.312	3.418	15.571
BREAK SHARP CORNERS AT 0.062R ON 19140							
19230	5.000	3.500	0.375	0.438	0.312	3.655	16.544

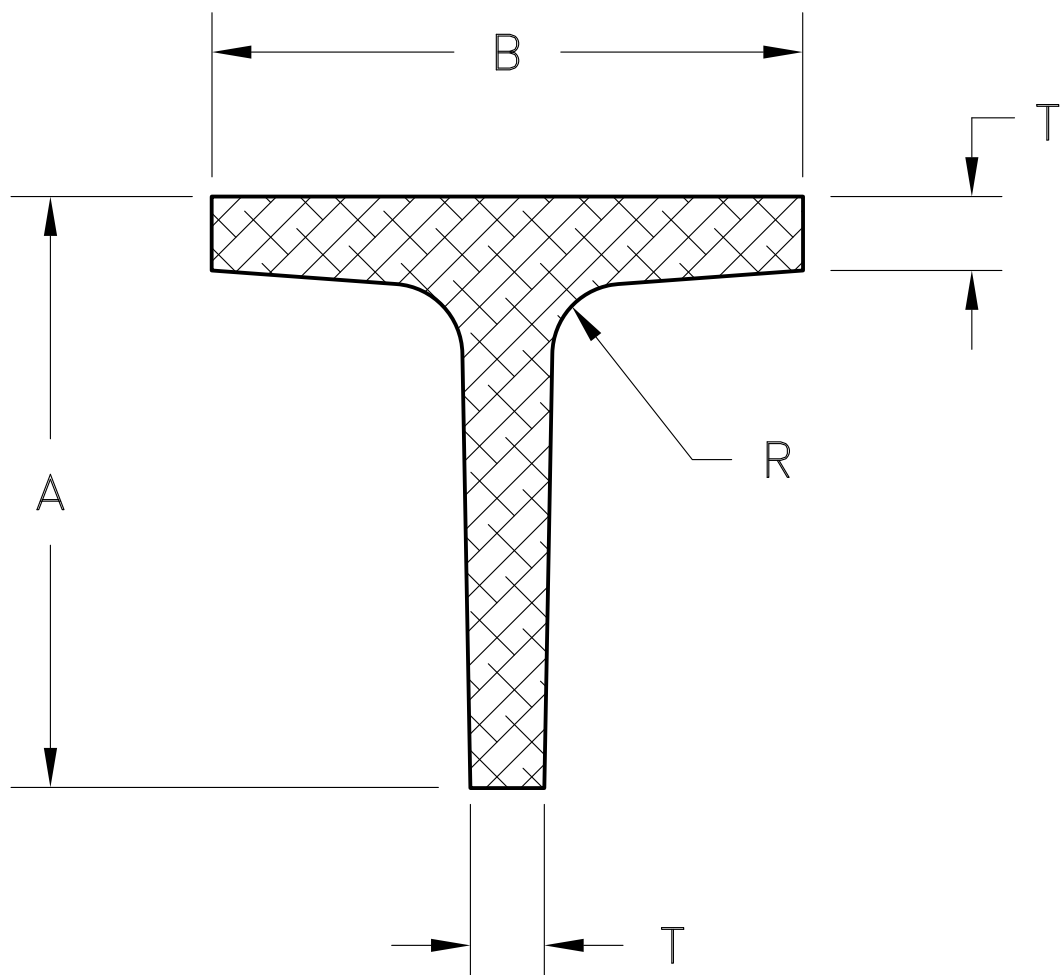
TEE



TEE

[illegible]

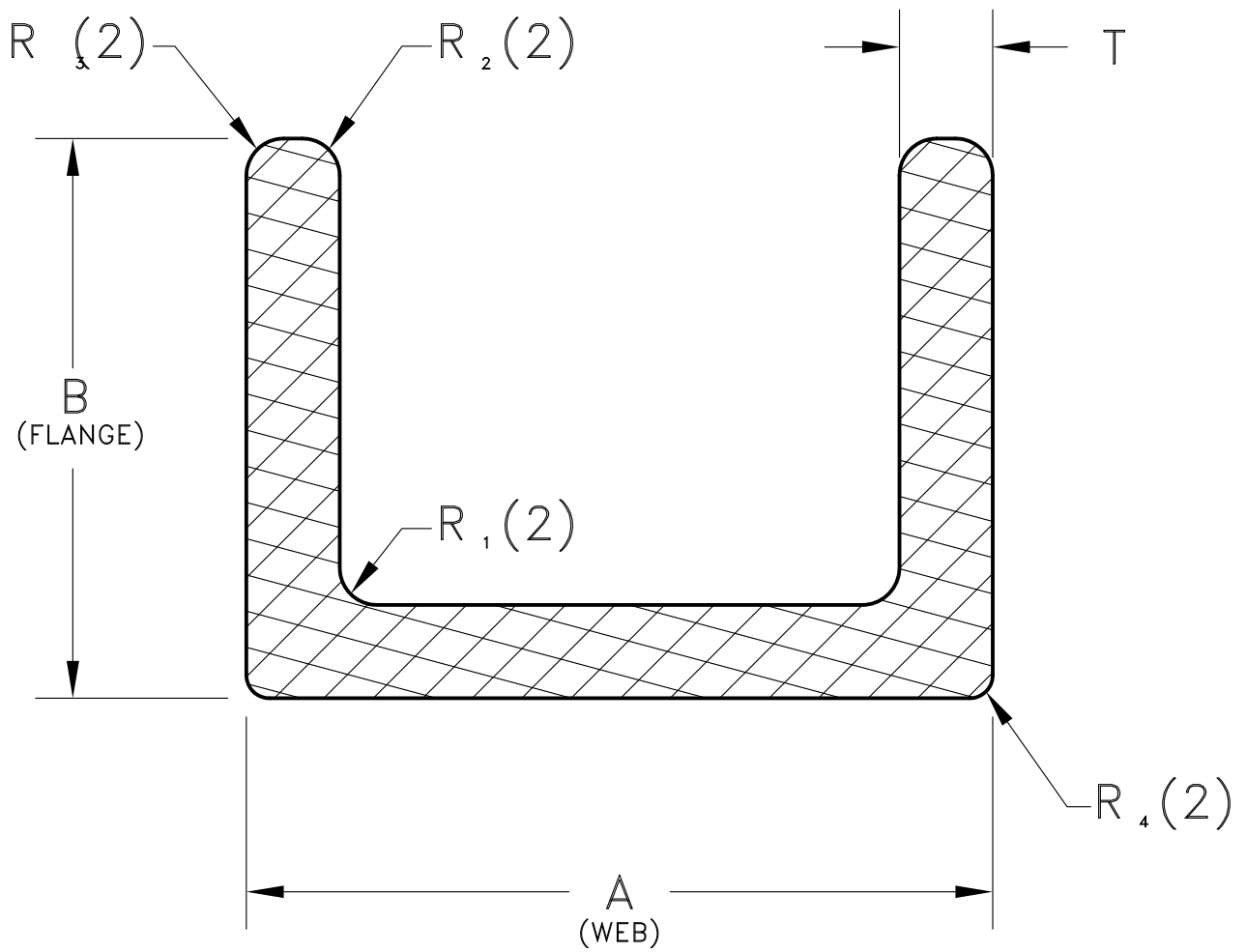
STRUCTURAL TEE



STRUCTURAL TEE

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CHANNEL



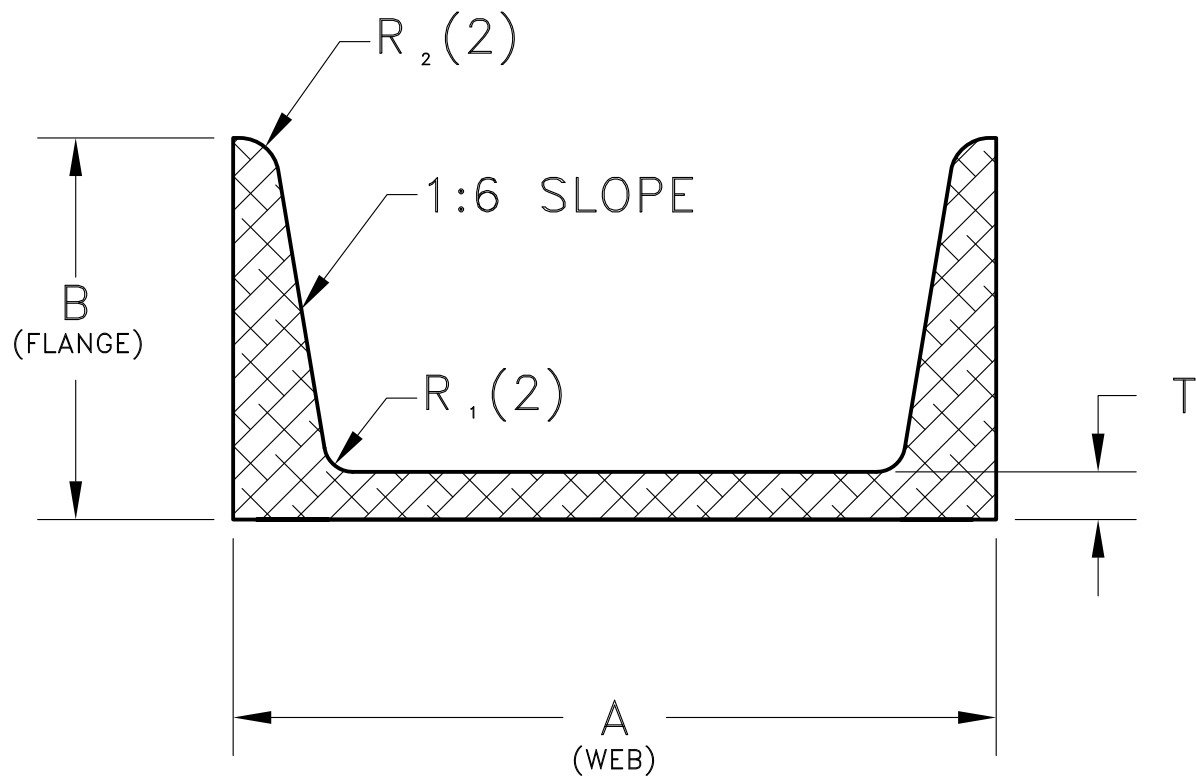
CHANNEL

DIE NO.	A	DIM	B	WEB/FLANGE	R1	R2	R3	R4	WT/FT	PERIM
19725	0.500	X	0.750	0.125					0.263	3.698
19811	1.000	X	0.500	0.125					0.263	3.750
19487	1.000	X	0.750	0.063					0.180	4.874
19377	1.000	X	1.000	0.125					0.413	5.750
19617	1.000	X	1.000	0.125				0.062	0.410	5.697
19554	1.000	X	1.500	0.125					0.563	7.750
19322	1.500	X	1.500	0.125					0.637	8.750
19515	1.750	X	1.000	0.125					0.526	7.250
19109	1.750	X	1.750	0.190	0.125	0.095		0.125	1.101	9.742
19254	1.894	X	2.000	0.197	0.062	0.031	0.031	0.062	1.394	11.140
19594	2.500	X	1.000	0.120	0.031	0.031	0.031	0.031	0.612	8.654
19875	2.500	X	1.500	0.125					0.787	10.750
19204	2.750	X	2.500	0.250	0.125			0.250	2.150	14.678
19286	3.000	X	1.500	0.130/0.200	0.250				1.158	11.525
19298	3.000	X	1.750	0.170/0.260	0.250				1.630	12.445
19178	4.000	X	1.500	0.150/0.185	0.250				1.352	13.485
19363	4.000	X	2.000	0.150/0.230	0.250				1.774	15.485
19362	4.000	X	2.250	0.190/0.290	0.250				2.377	16.405
19053	5.000	X	1.375	0.375	0.020	0.188	0.188	0.188	3.096	14.250
19037	5.000	X	2.000	0.188	0.031	0.031	0.031	0.031	1.945	17.518
19378	5.000	X	2.250	0.150/0.260	0.300				2.256	18.442
19292	5.000	X	2.750	0.190/0.320	0.300				3.152	20.362

CHANNEL

[illegible]

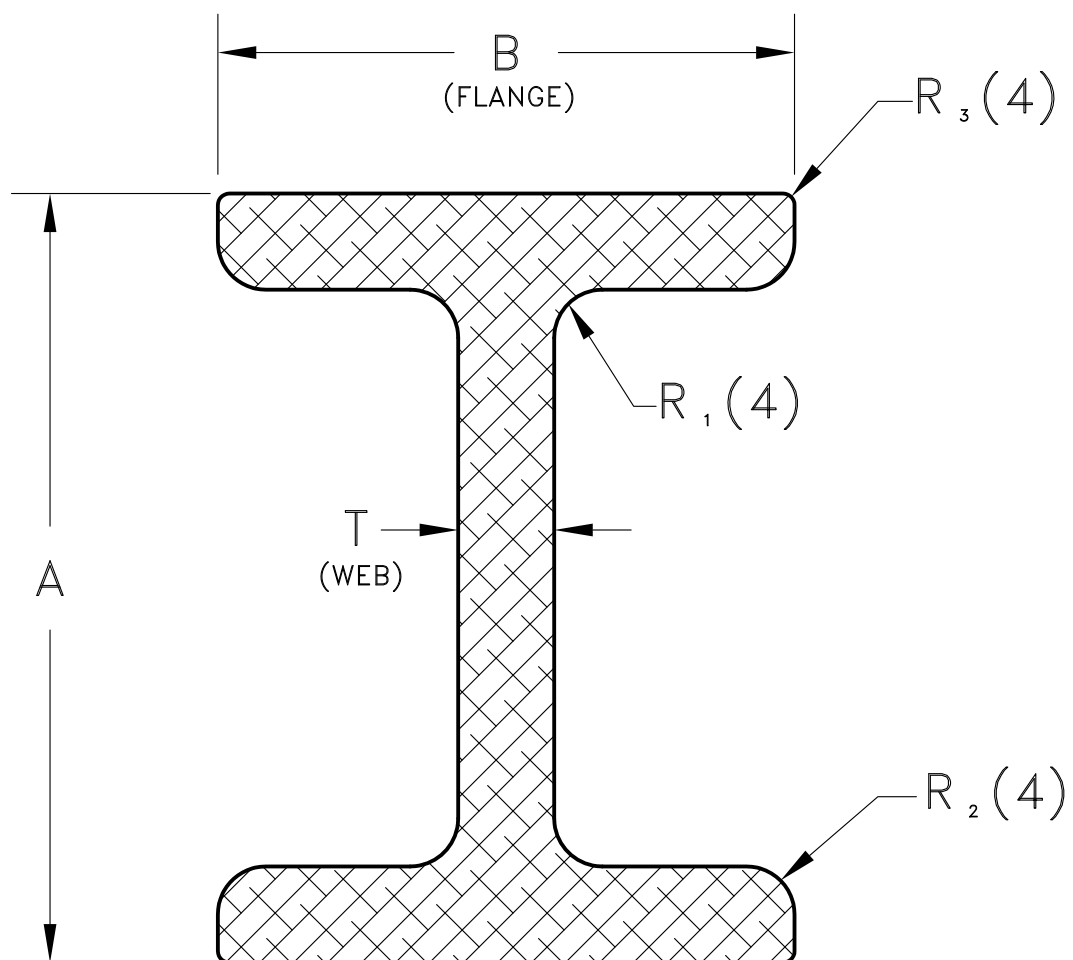
STRUCTURAL CHANNEL



STRUCTURAL CHANNEL

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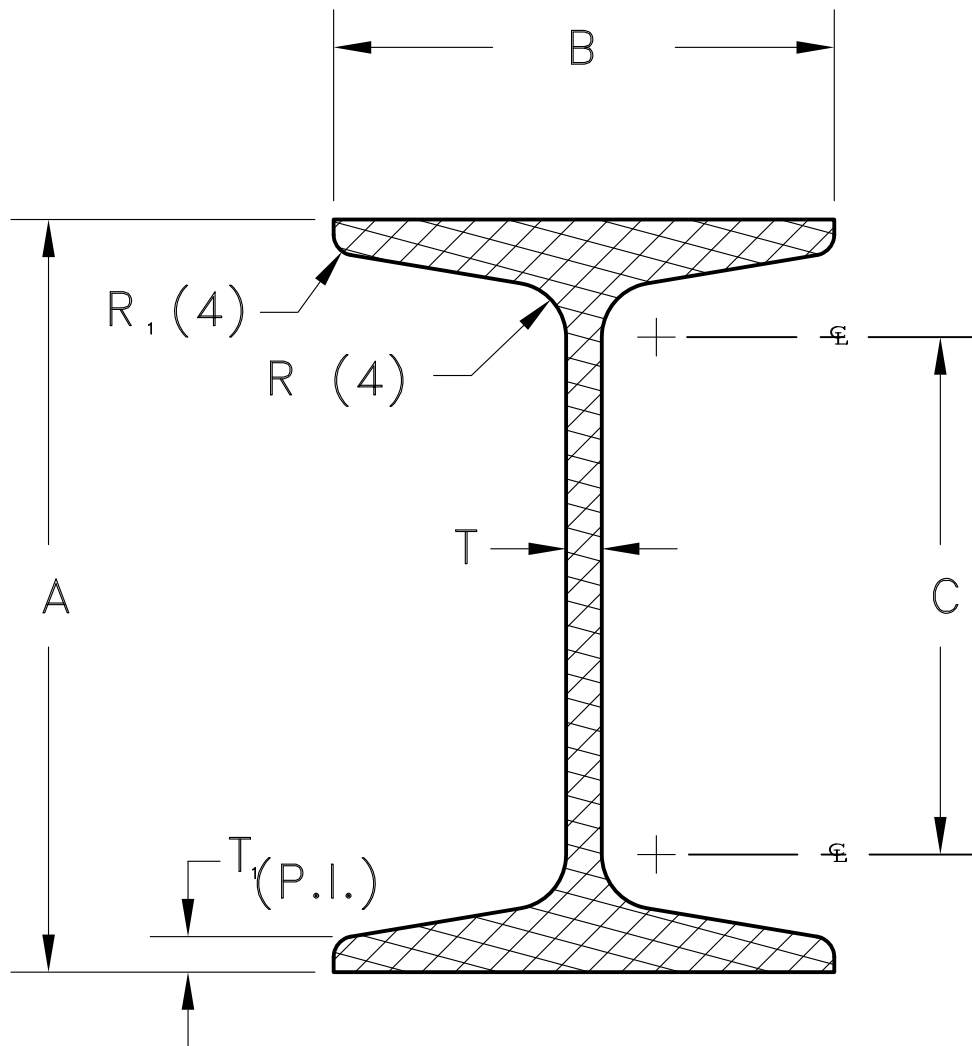
WIDE FLANGE BEAMS



WIDE FLANGE BEAMS

DIE NO.	A	DIM	B	WEB/FLANGE	R1	R2	R3	WT/FT	PERIM
19497	3.000	X	2.000	0.125/0.190	0.125	0.062		1.240	13.310
19226	3.000	X	2.500	0.150/0.260	0.250			2.070	15.282
19324	4.000	X	2.000	0.090/0.130		0.031		1.043	15.552
19375	4.000	X	2.250	0.130/0.090	0.125	0.030	0.030	1.120	16.502
19196	4.000	X	2.750	0.170/0.250	0.150	0.039	0.039	2.384	18.269
19660	4.000	X	3.000	0.125	0.062	0.062	0.062	1.458	19.431
19380	4.000	X	3.000	0.170/0.290	0.250			2.850	19.231
19341	5.000	X	3.500	0.190/0.320	0.300			3.775	23.105
19296	6.000	X	4.000	0.190/0.290	0.300			4.112	27.116
19379	6.000	X	4.000	0.210/0.350	0.300			4.788	27.065
19104	6.000	X	6.000	0.240/0.269	0.250	0.031	0.031	5.509	34.984
19095	8.000	X	4.000	0.175/0.230	0.175	0.060	0.060	3.815	31.155
19094	8.000	X	5.000	0.200/0.250	0.200	0.060	0.060	4.834	35.062
19297	8.000	X	5.000	0.230/0.350	0.300			6.307	35.036
19342	8.000	X	5.000	0.250/0.410	0.300			7.166	34.996
19093	8.000	X	5.500	0.250/0.400	0.250	0.060	0.060	7.497	36.876
19252	8.000	X	7.000	0.313/0.450	0.313	0.060	0.060	10.320	42.642
19150	12.000	X	7.000	0.290/0.470	0.400	0.060	0.060	11.910	50.745

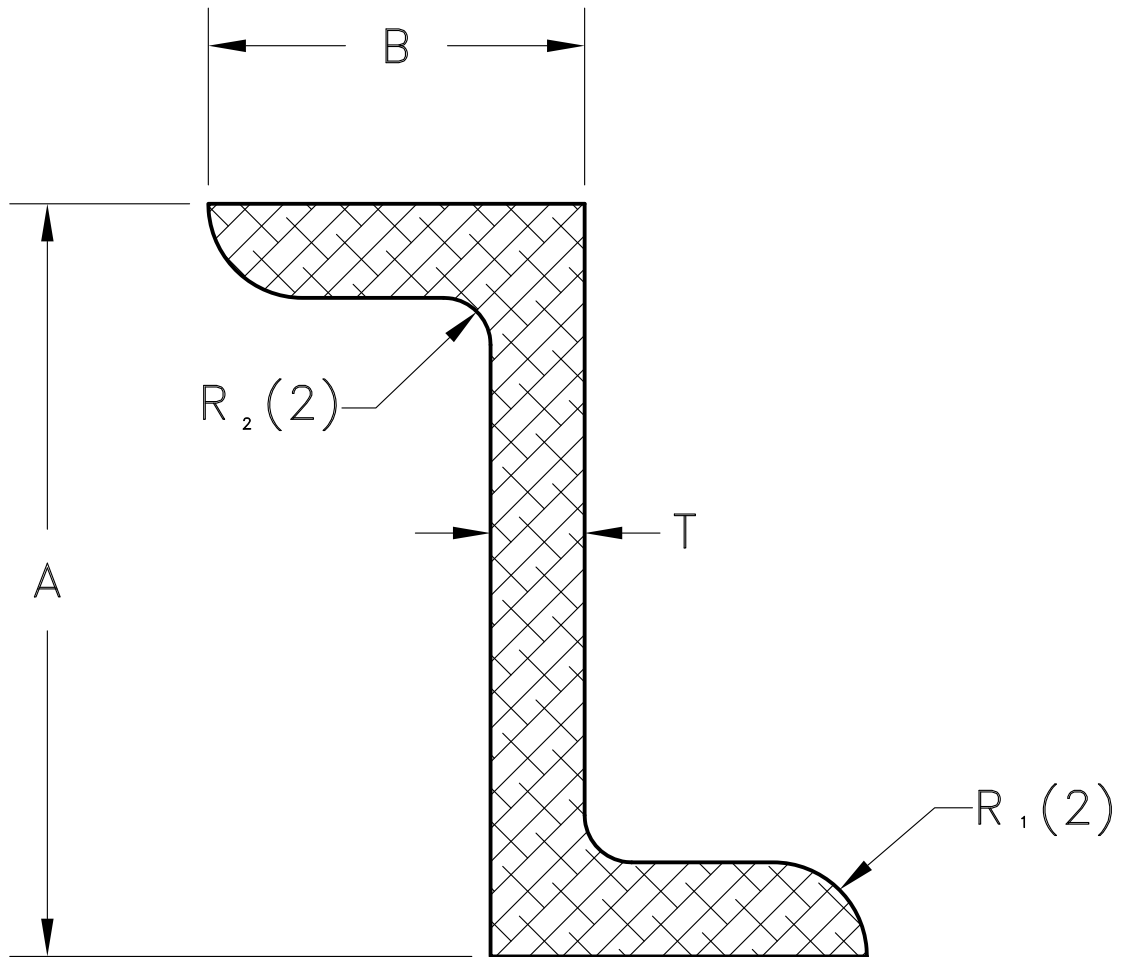
I BEAMS



I BEAM

[illegible]

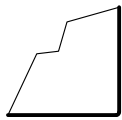
ZEE



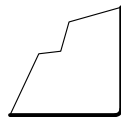
ZEE

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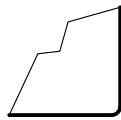
RADIUS TABLE



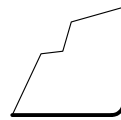
0.016 R.



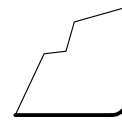
0.031 R.



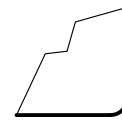
0.047 R.



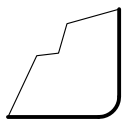
0.062 R.



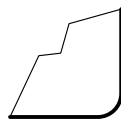
0.078 R.



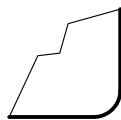
0.094 R.



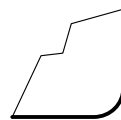
0.109 R.



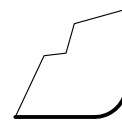
0.125 R.



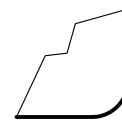
0.141 R.



0.156 R.



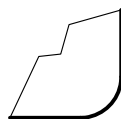
0.172 R.



0.188 R.



0.203 R.



0.219 R.



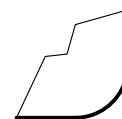
0.234 R.



0.250 R.



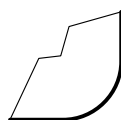
0.266 R.



0.281 R.



0.297 R.



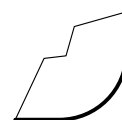
0.312 R.



0.328 R.



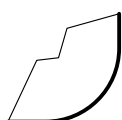
0.344 R.



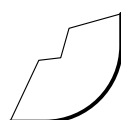
0.359 R.



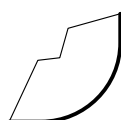
0.375 R.



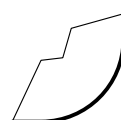
0.391 R.



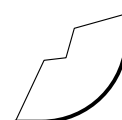
0.406 R.



0.422 R.



0.438 R.



0.453 R.



0.469 R.



0.484 R.



0.500 R.