



**Modellkatalog • Shape Catalog • Catalogue de formes •
Catálogo de formas**



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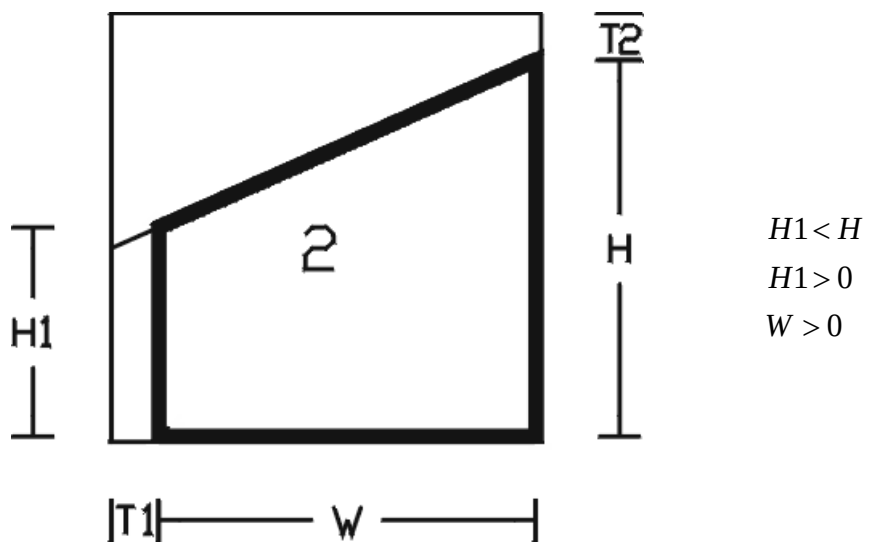
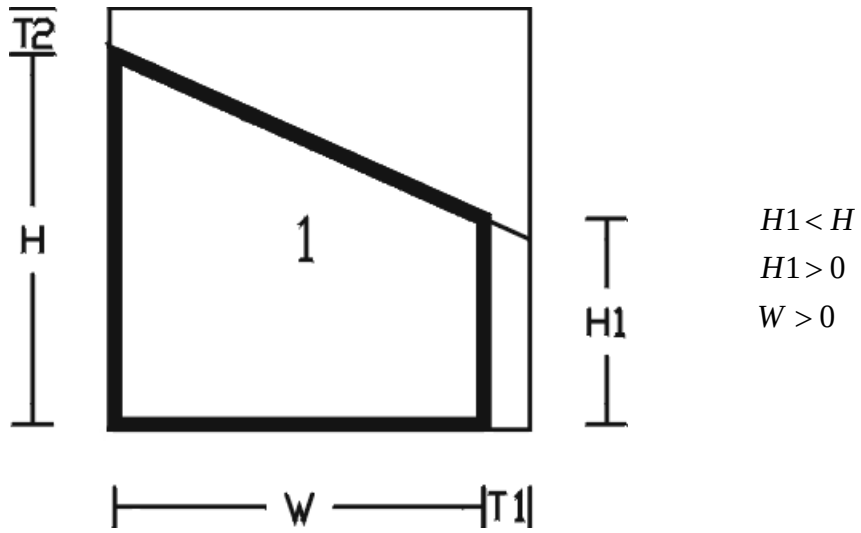
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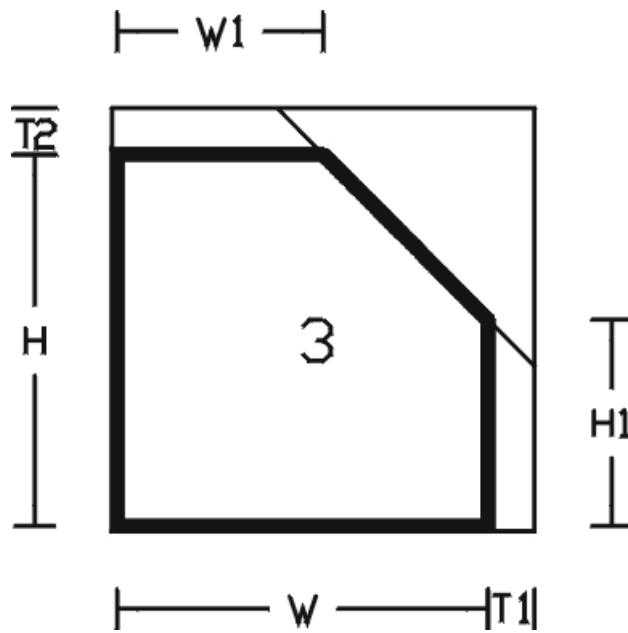
35415 Pohlheim · Germany

Tel. +49 6404 2051-0 · Fax +49 6404 2051 877

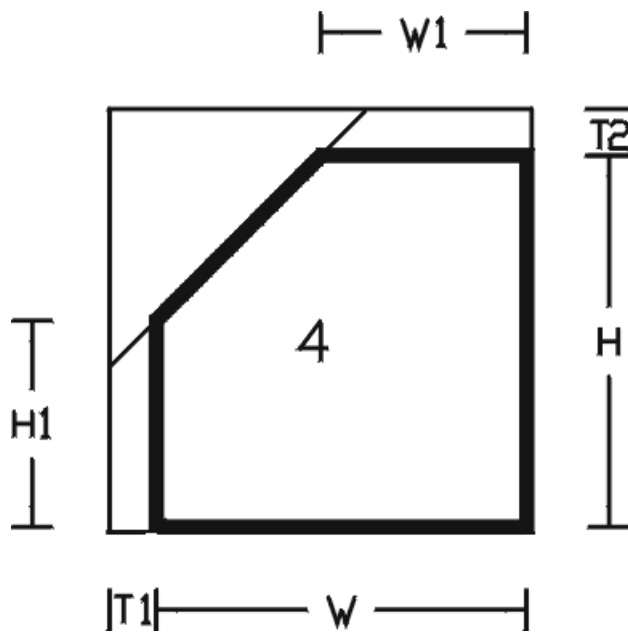
<http://www.a-w.com/> · zentrale@a-w.com

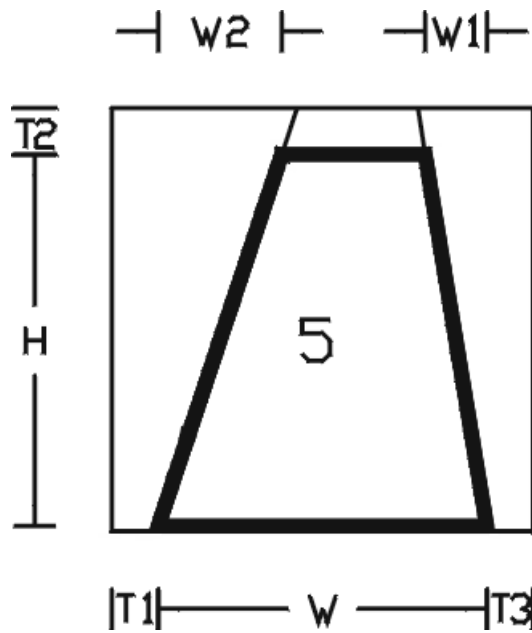


$$\begin{aligned} H1 &< H \\ W1 &< W \\ H1 &> 0 \\ W1 &> 0 \end{aligned}$$



$$\begin{aligned} H1 &< H \\ W1 &< W \\ H1 &> 0 \\ W1 &> 0 \end{aligned}$$



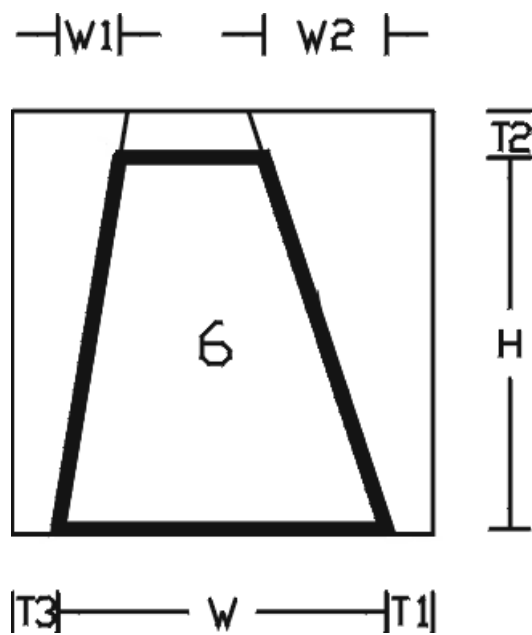


$$W_2 + W_1 \leq W$$

$$H > 0$$

$$W_1 > 0$$

$$W_2 > 0$$



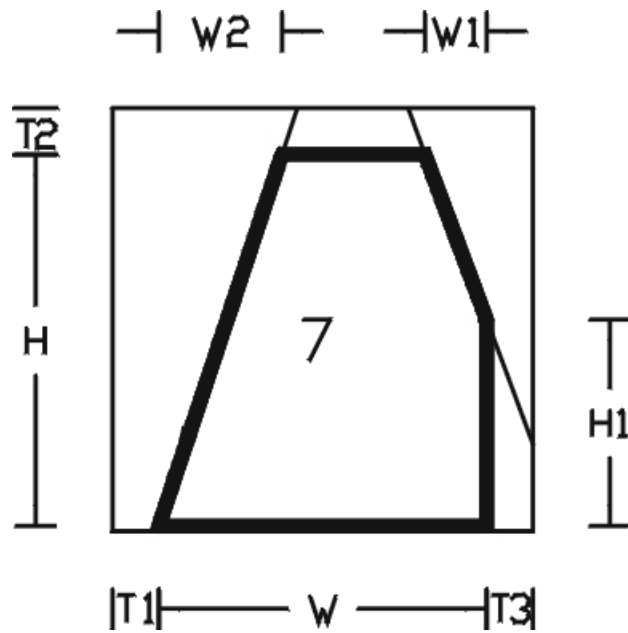
$$W_2 + W_1 \leq W$$

$$H > 0$$

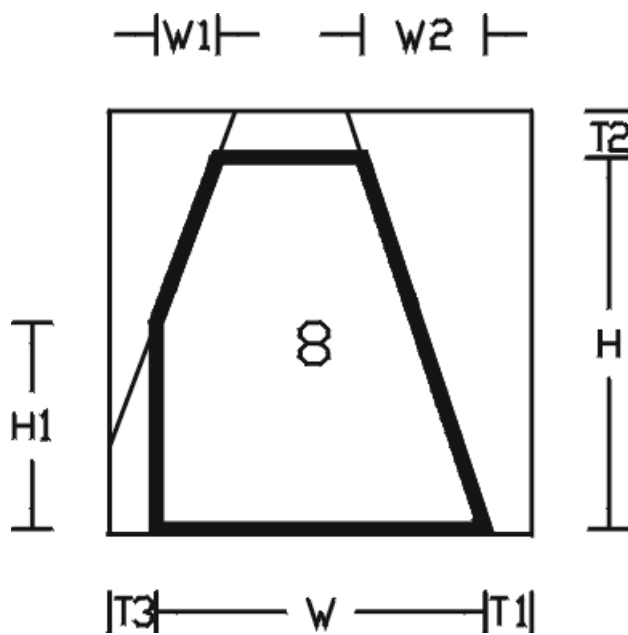
$$W_1 > 0$$

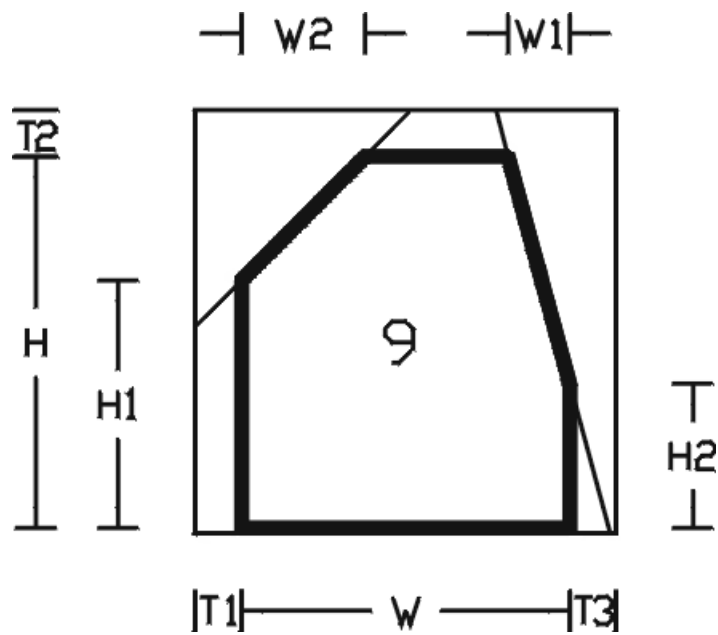
$$W_2 > 0$$

$$\begin{aligned} W2 + W1 &\leq W \\ H1 &< H \\ H1 &> 0 \\ W1 &> 0 \\ W2 &> 0 \end{aligned}$$

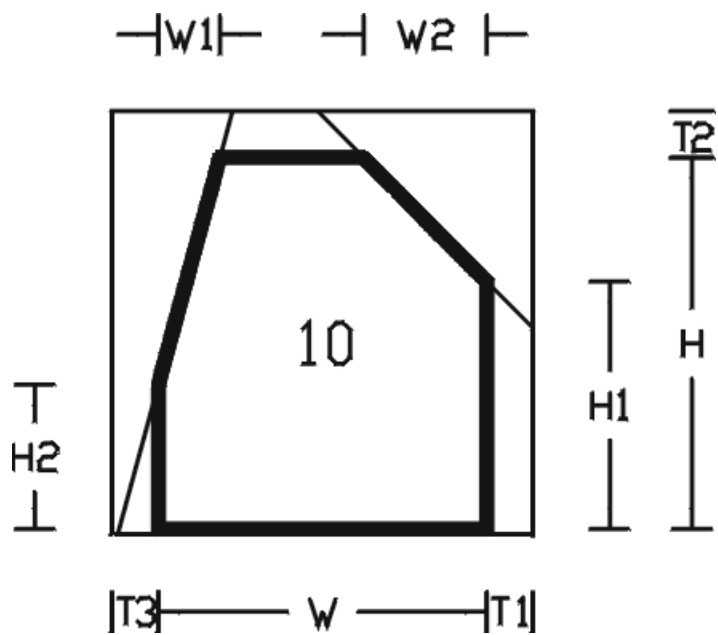


$$\begin{aligned} W2 + W1 &\leq W \\ H1 &< H \\ H1 &> 0 \\ W1 &> 0 \\ W2 &> 0 \end{aligned}$$



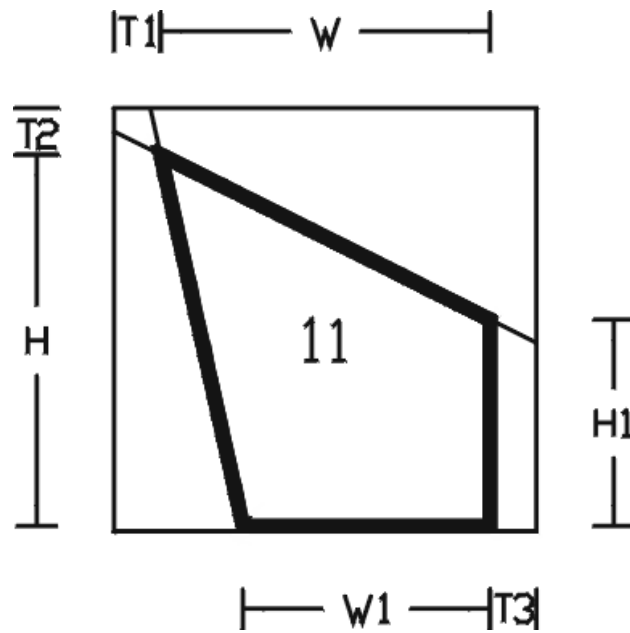


$$\begin{aligned} H2 &\leq H1 > H \\ W2 + W1 &\leq W \\ H2 &> 0 \\ W1 &> 0 \\ W2 &> 0 \end{aligned}$$

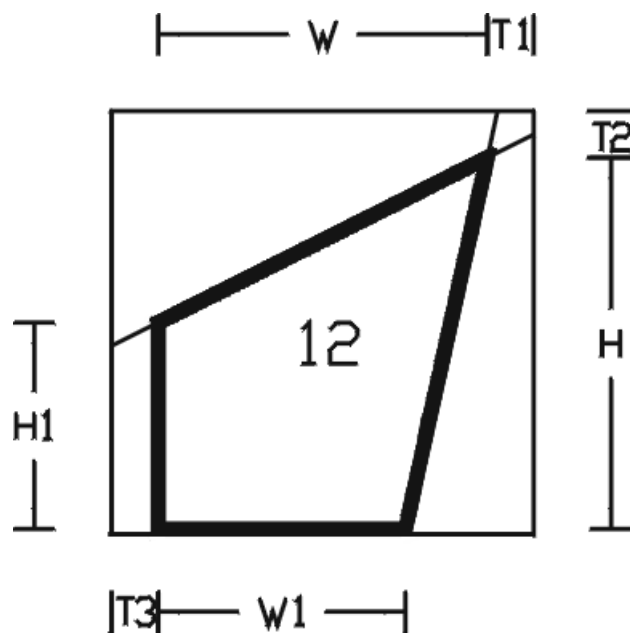


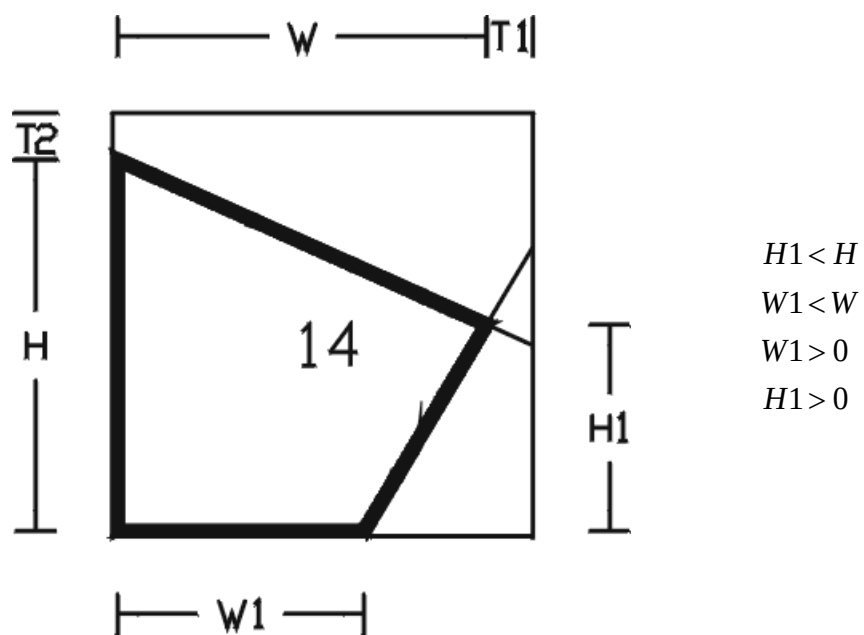
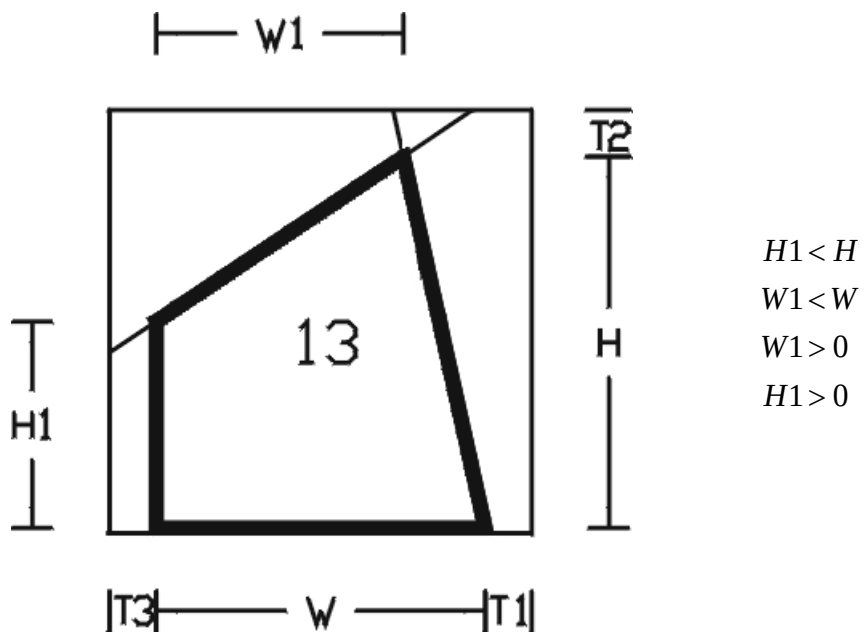
$$\begin{aligned} H2 &\leq H1 > H \\ W2 + W1 &\leq W \\ H2 &> 0 \\ W1 &> 0 \\ W2 &> 0 \end{aligned}$$

$$\begin{aligned} H1 < H \\ W1 < W \\ W1 > 0 \\ H1 > 0 \end{aligned}$$

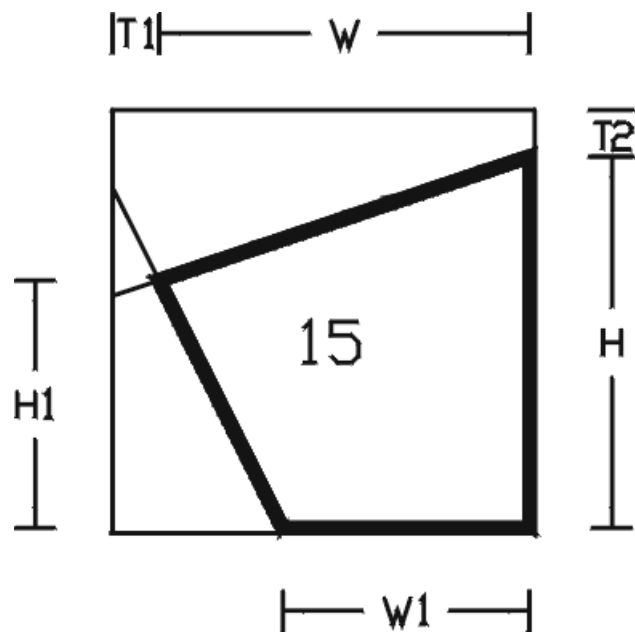


$$\begin{aligned} H1 < H \\ W1 < W \\ W1 > 0 \\ H1 > 0 \end{aligned}$$

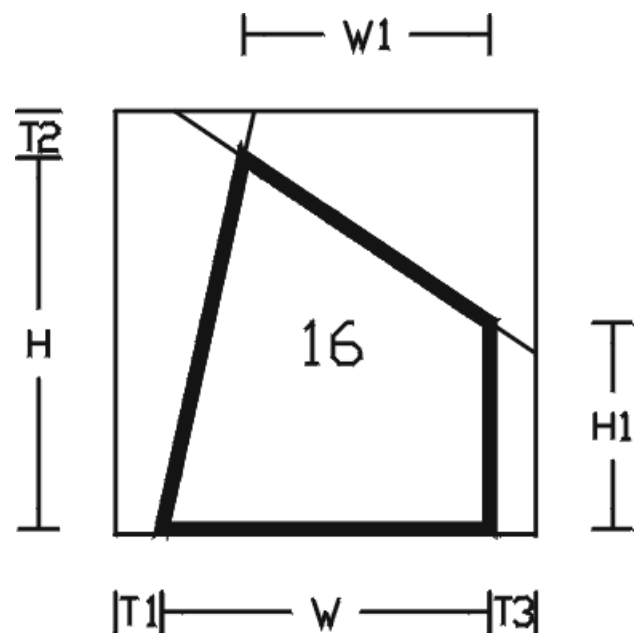


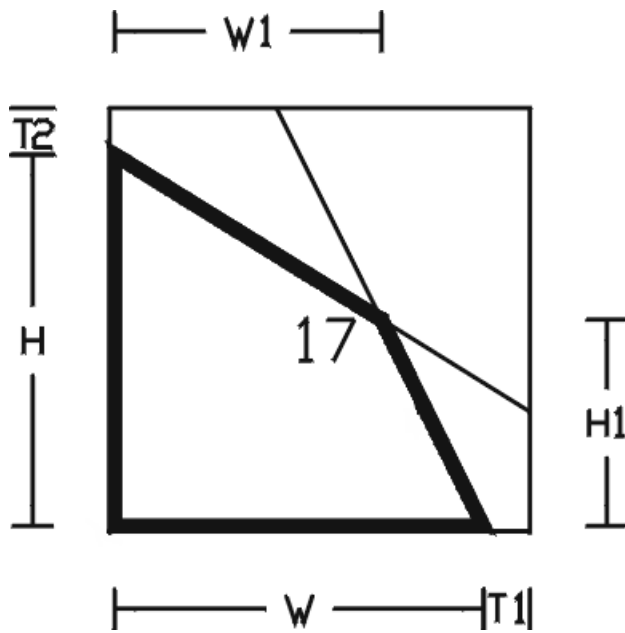


$$\begin{aligned} H1 < H \\ W1 < W \\ W1 > 0 \\ H1 > 0 \end{aligned}$$

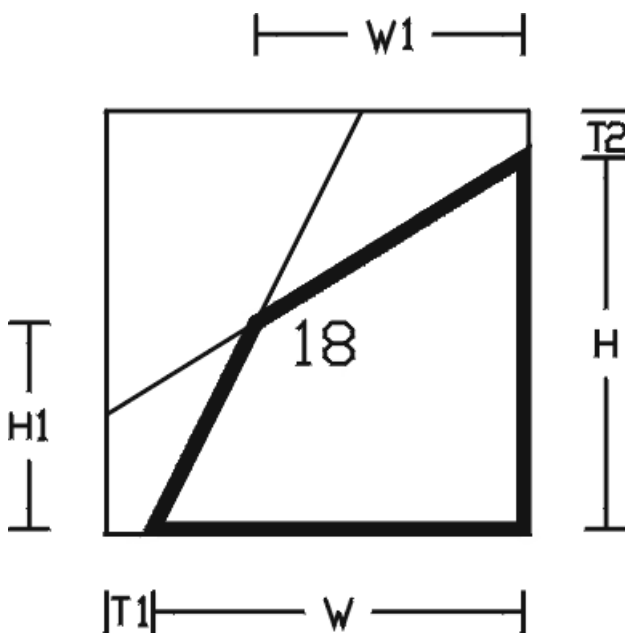


$$\begin{aligned} H1 < H \\ W1 < W \\ W1 > 0 \\ H1 > 0 \end{aligned}$$



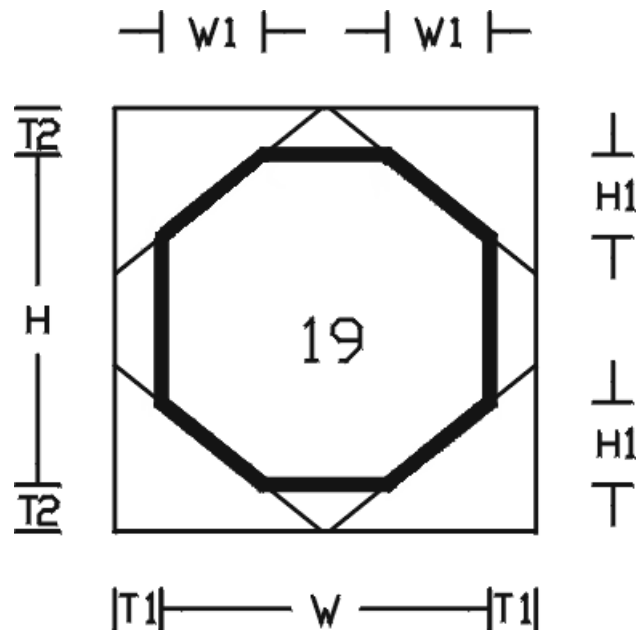


$$\begin{aligned} H1 &< H \\ W1 &< W \\ W1 &> 0 \\ H1 &> 0 \end{aligned}$$

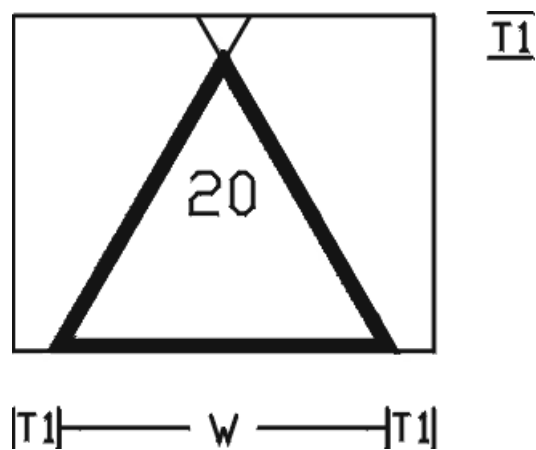


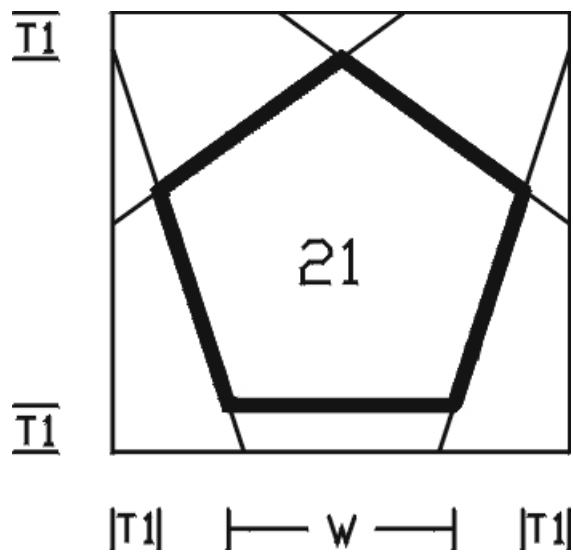
$$\begin{aligned} H1 &< H \\ W1 &< W \\ W1 &> 0 \\ H1 &> 0 \end{aligned}$$

$$\begin{aligned} 2 * H1 &< W \\ 2 * W1 &< W \\ H1 &> 0 \\ W1 &> 0 \end{aligned}$$

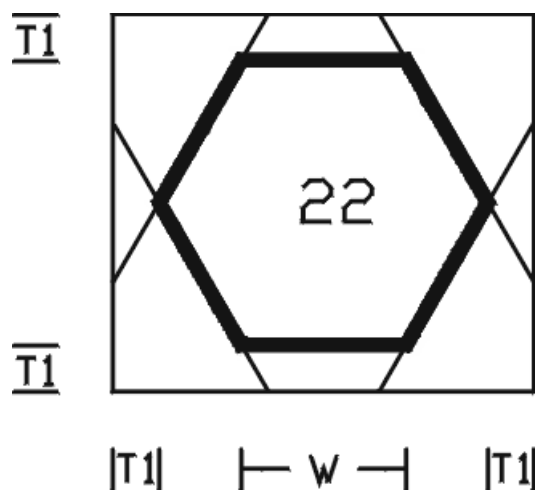


$$W > 0$$



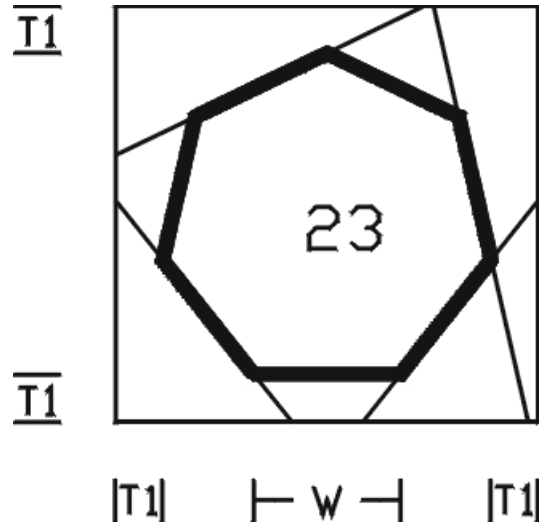


$W > 0$

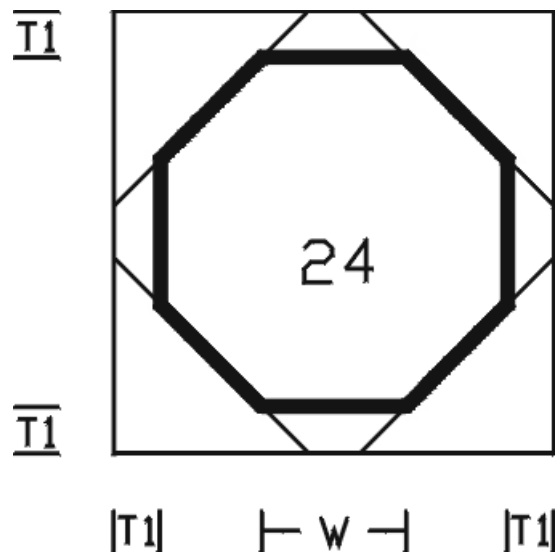


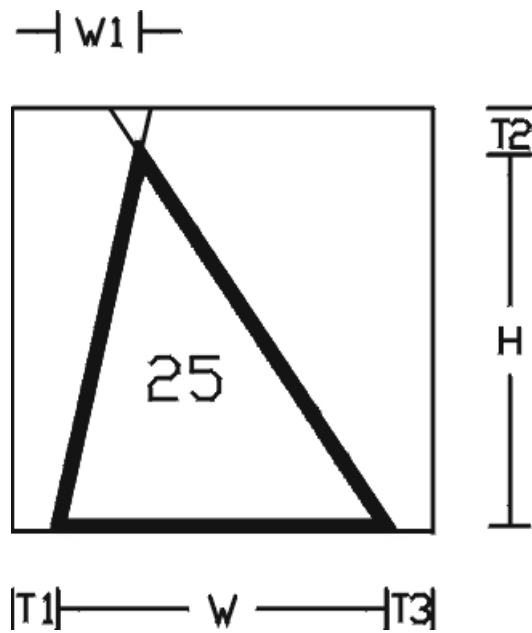
$W > 0$

$W > 0$



$W > 0$

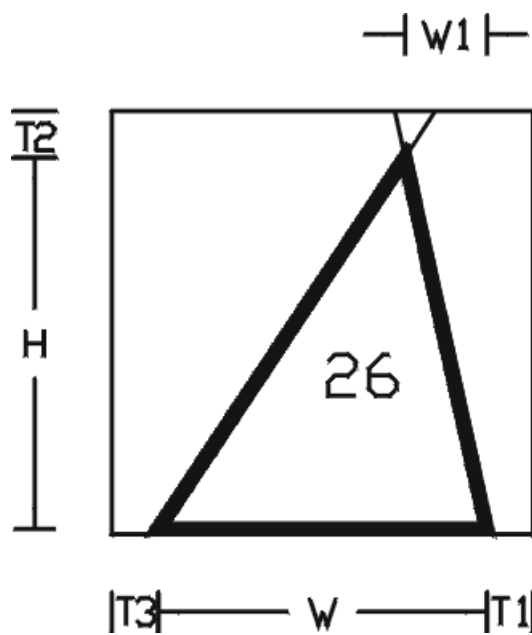




$$H > 0$$

$$W > 0$$

$$W1 > 0$$

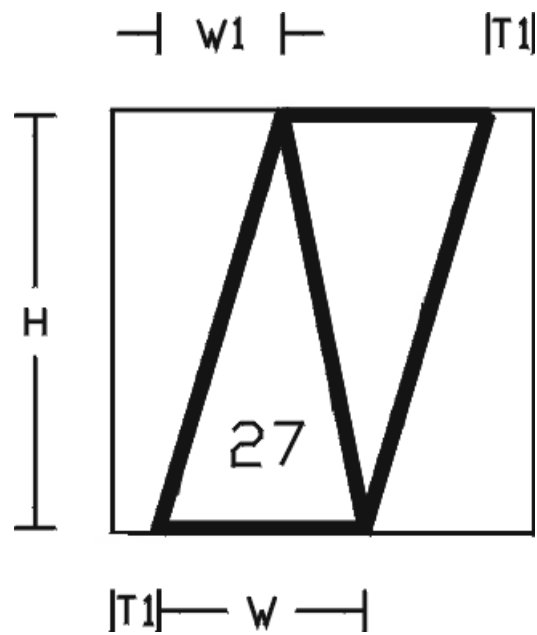


$$H > 0$$

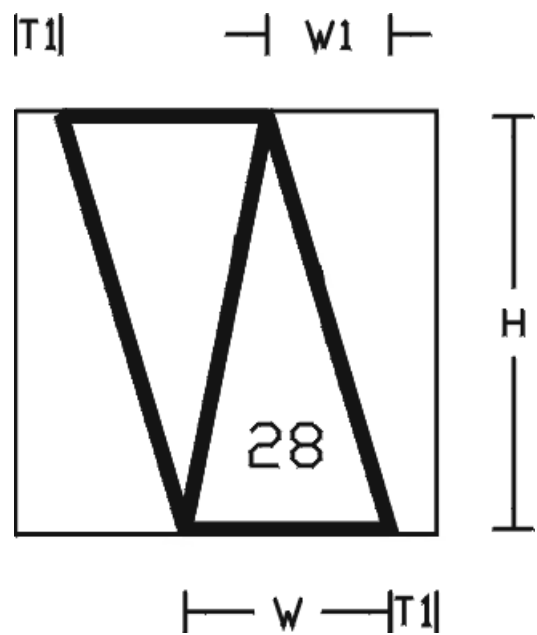
$$W > 0$$

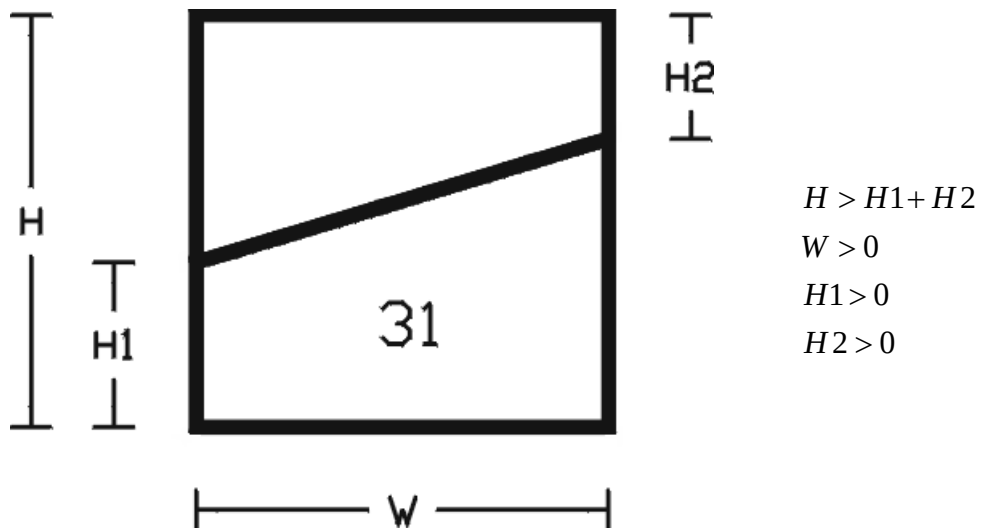
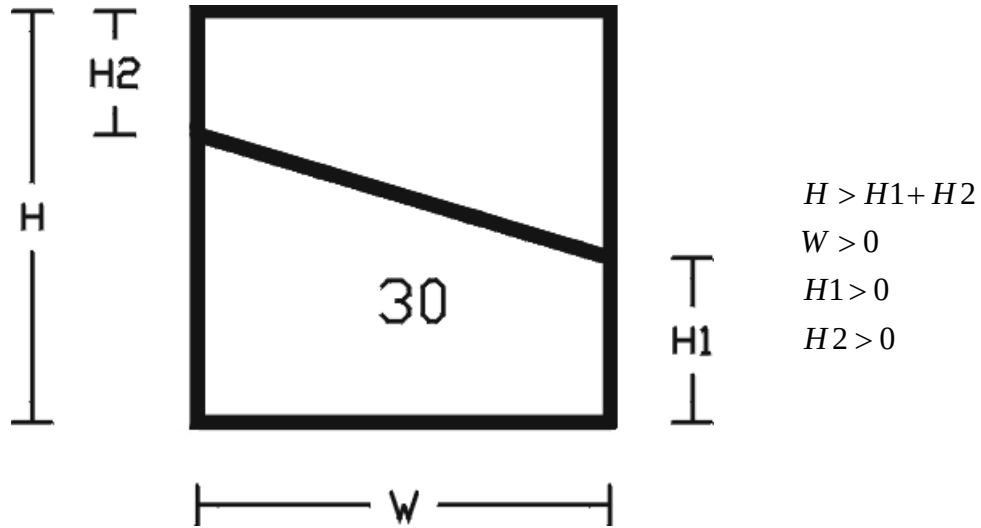
$$W1 > 0$$

$H > 0$
 $W > 0$
 $W1 > 0$



$H > 0$
 $W > 0$
 $W1 > 0$





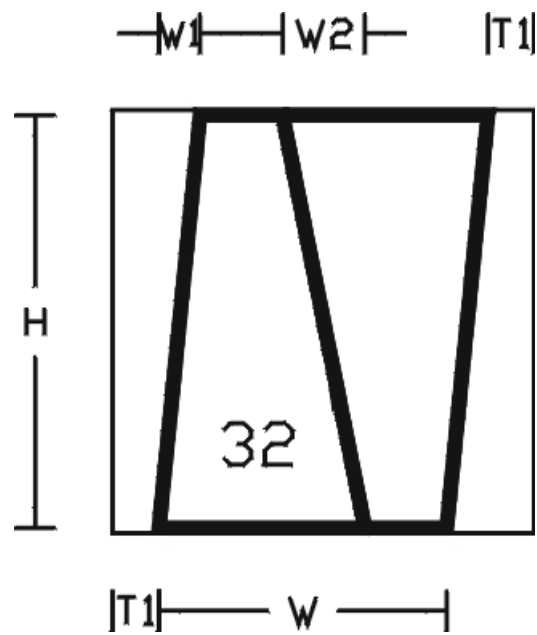
$$W_2 + 2 * W_1 \leq W$$

$$W > 0$$

$$H > 0$$

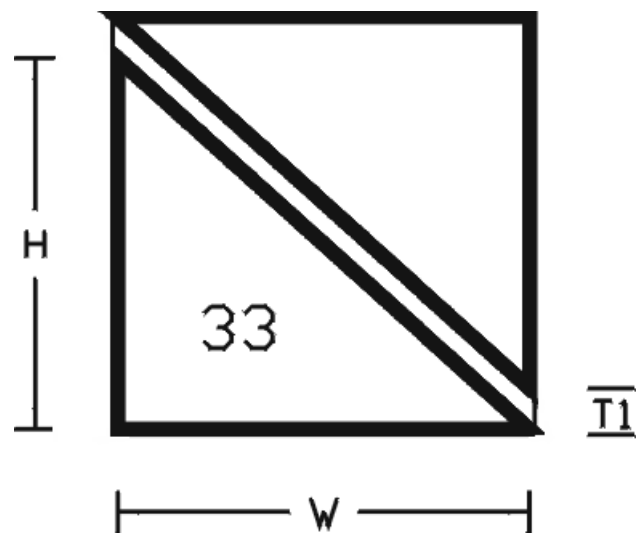
$$W_1 > 0$$

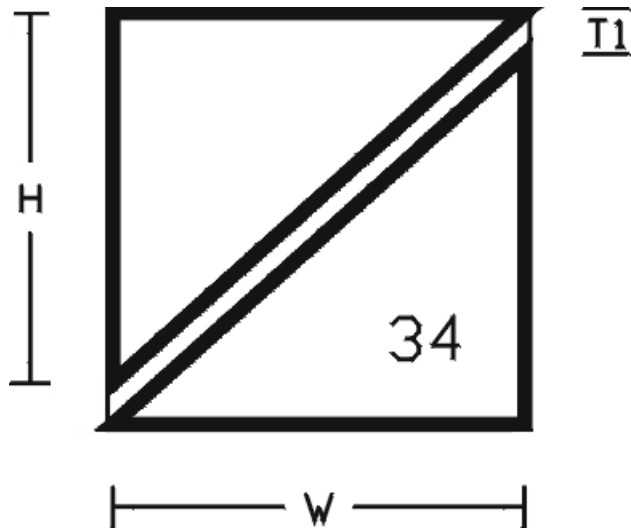
$$W_2 > 0$$



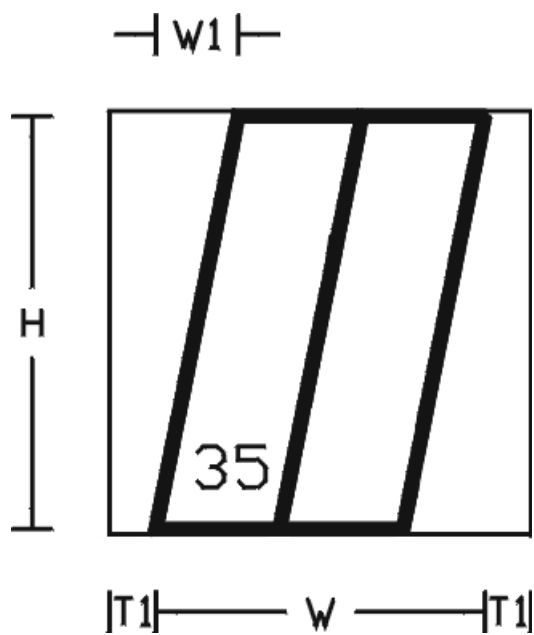
$$W > 0$$

$$H > 0$$



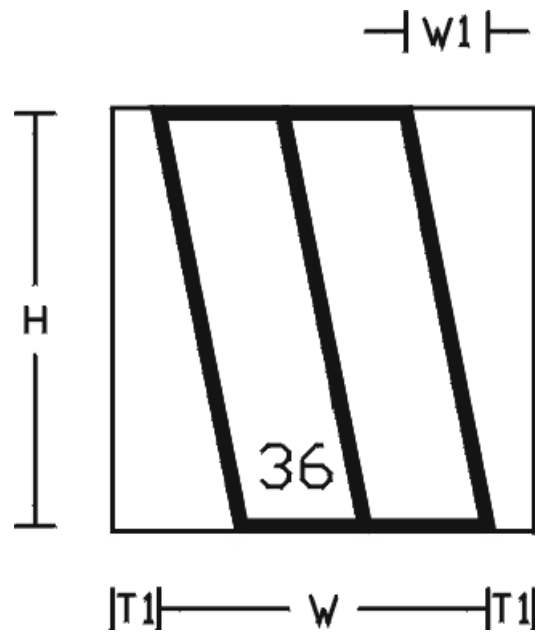


$$\begin{aligned} W1 &< W \\ W1 &> 0 \\ H &> 0 \end{aligned}$$

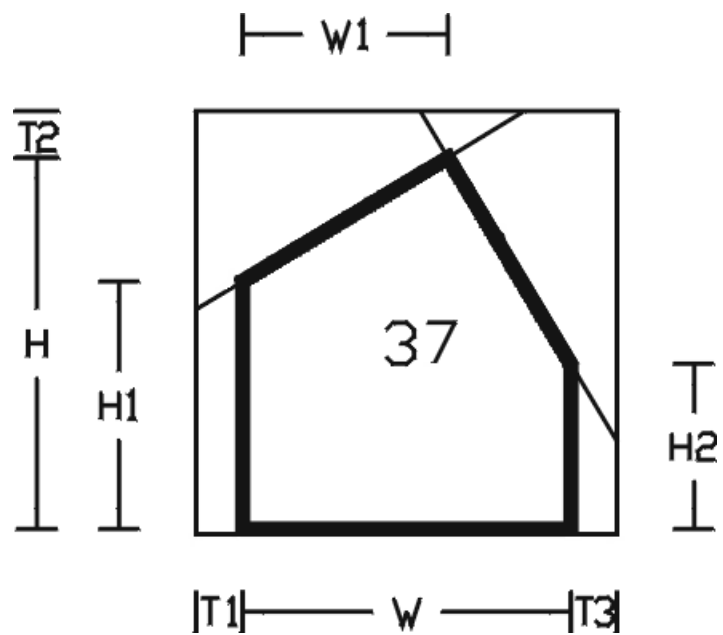


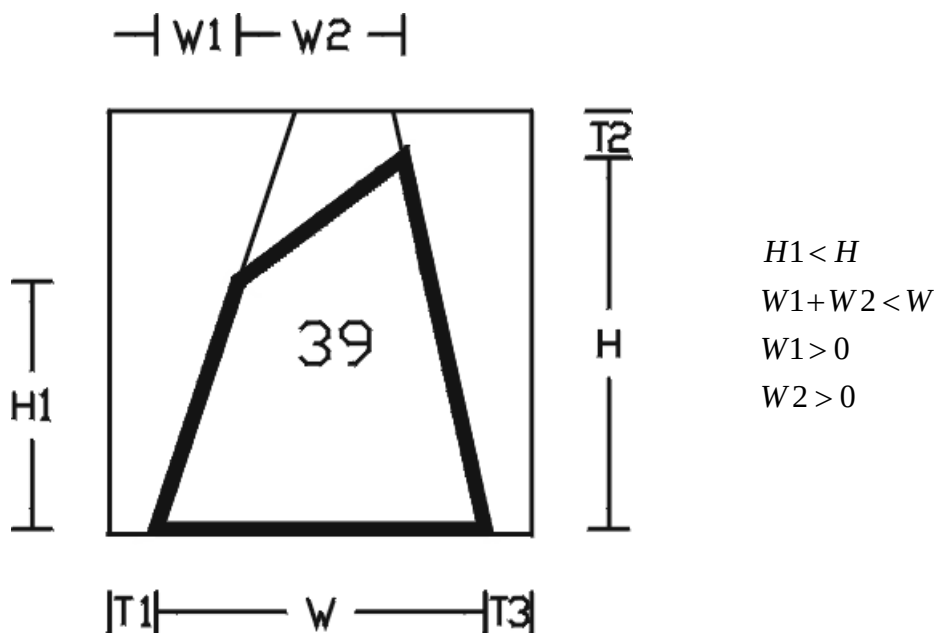
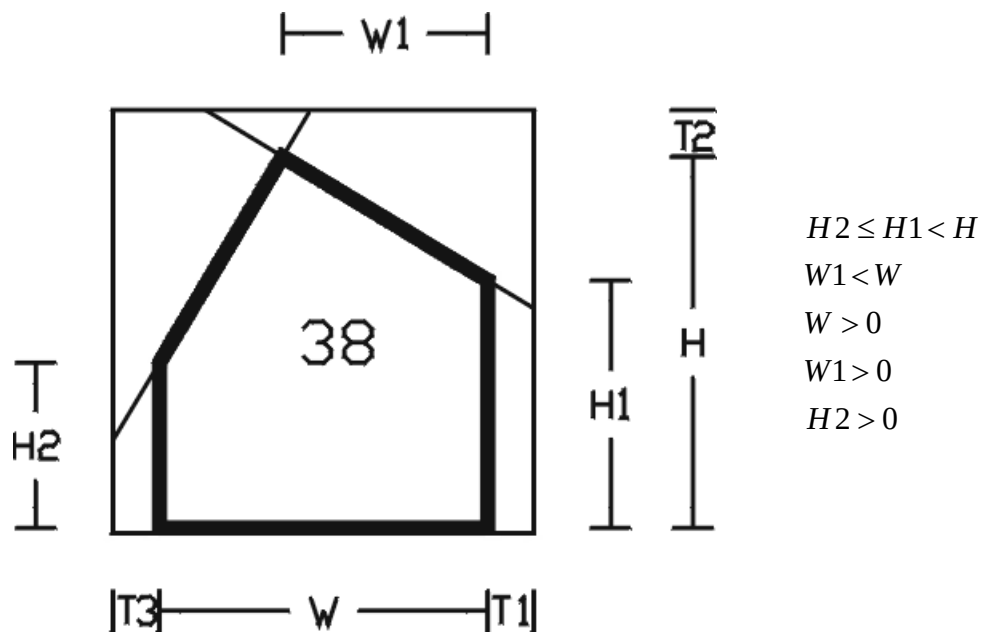
$$\begin{aligned} W1 &< W \\ W1 &> 0 \\ H &> 0 \end{aligned}$$

$$\begin{aligned} W_1 &< W \\ W_1 &> 0 \\ H &> 0 \end{aligned}$$

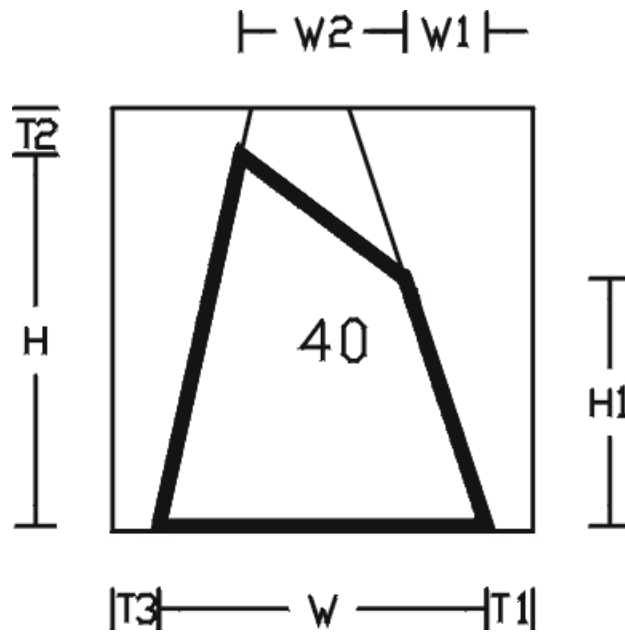


$$\begin{aligned} H_2 &\leq H_1 < H \\ W_1 &< W \\ W &> 0 \\ W_1 &> 0 \\ H_2 &> 0 \end{aligned}$$

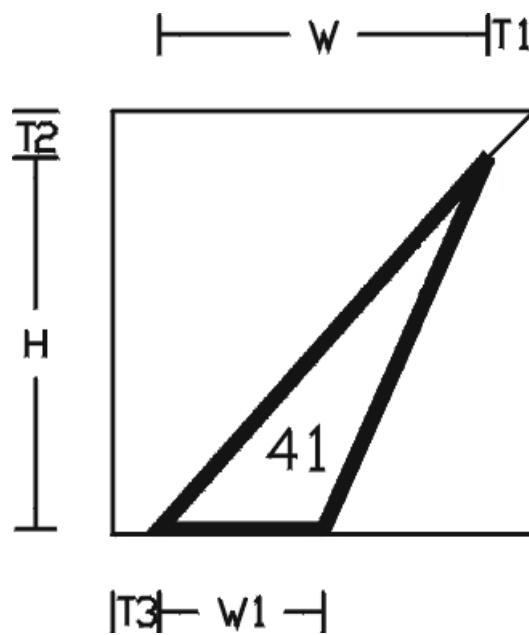


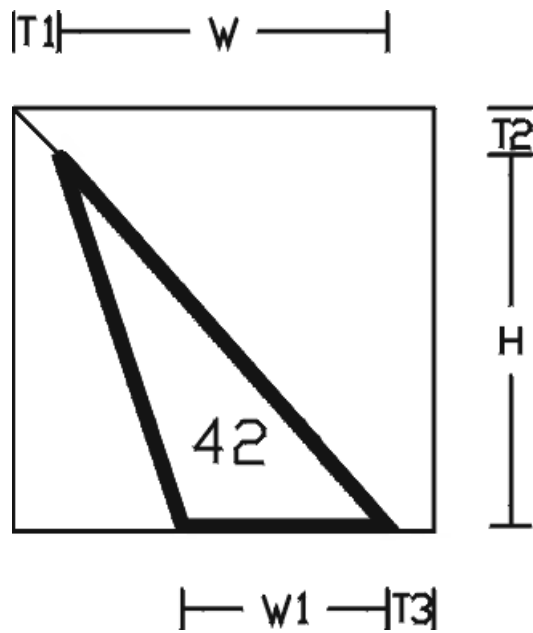


$$\begin{aligned} H_1 &< H \\ W_1 + W_2 &< W \\ W_1 &> 0 \\ W_2 &> 0 \end{aligned}$$



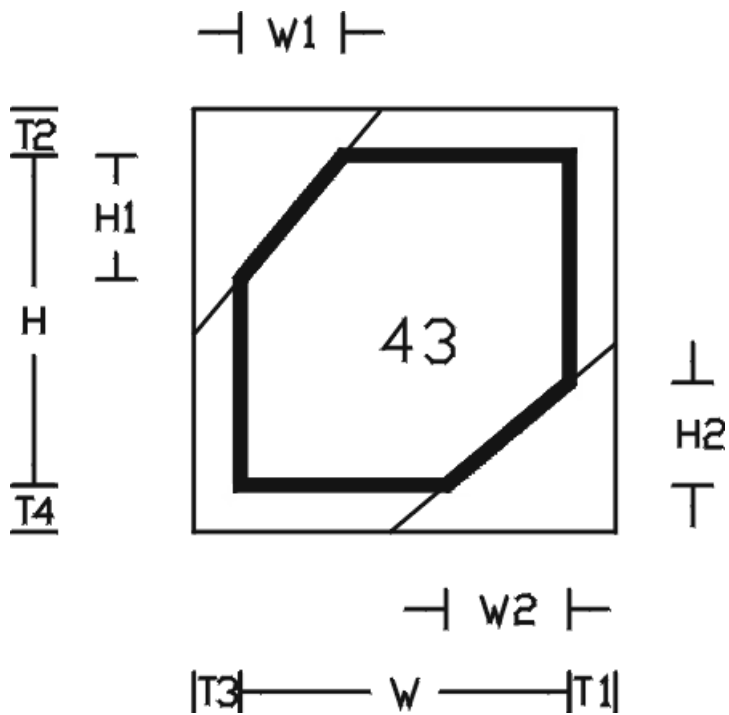
$$\begin{aligned} W &> W_1 > 0 \\ H &> 0 \end{aligned}$$





$$W > W_1 > 0$$

$$H > 0$$



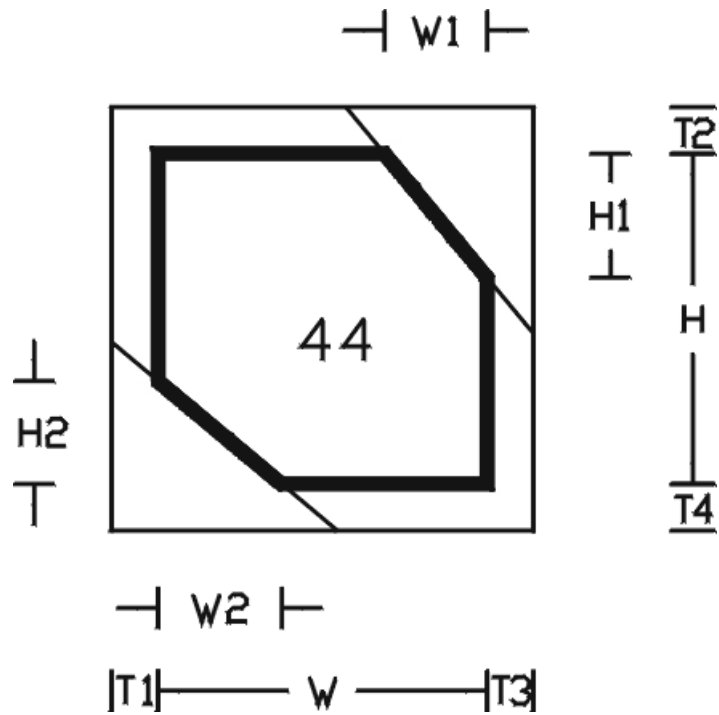
$$H > H_1 > 0$$

$$H > H_2 > 0$$

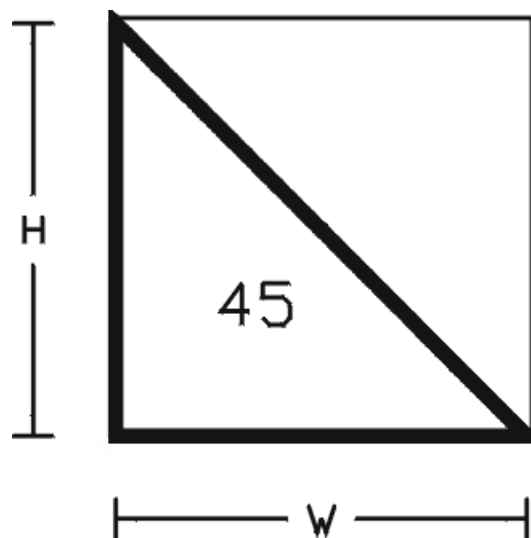
$$W > W_1 > 0$$

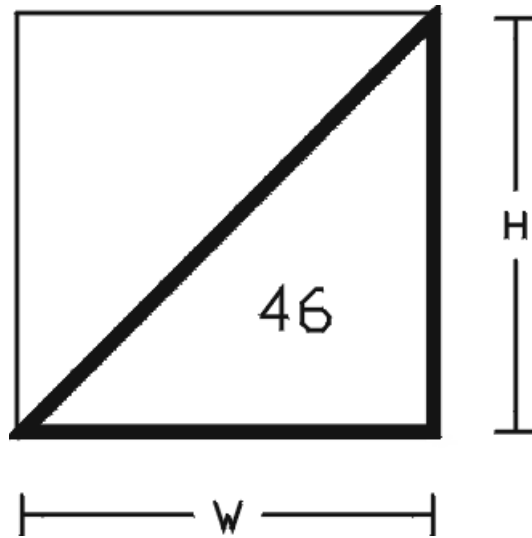
$$W > W_2 > 0$$

$$\begin{aligned} H &> H1 > 0 \\ H &> H2 > 0 \\ W &> W1 > 0 \\ W &> W2 > 0 \end{aligned}$$



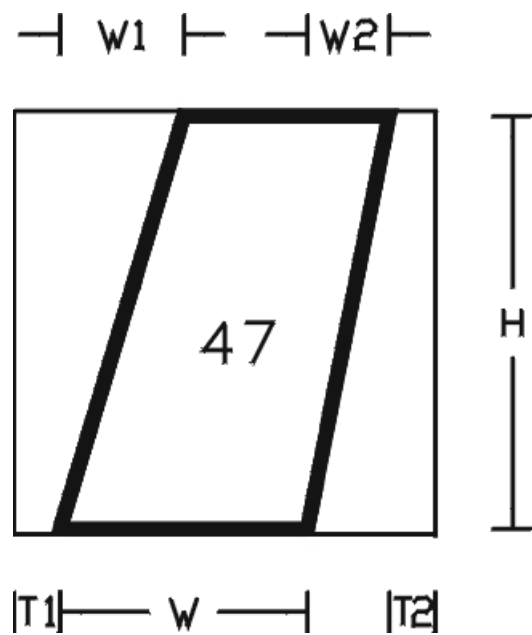
$$\begin{aligned} W &> 0 \\ H &> 0 \end{aligned}$$





$$W > 0$$

$$H > 0$$



$$W > 0$$

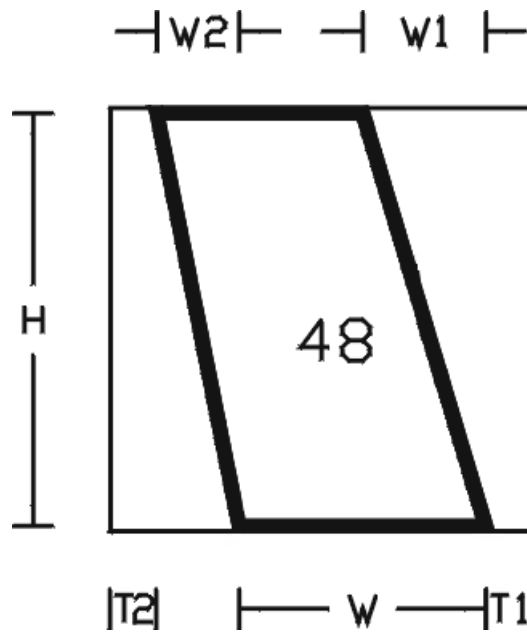
$$H > 0$$

$$W1 \leq W$$

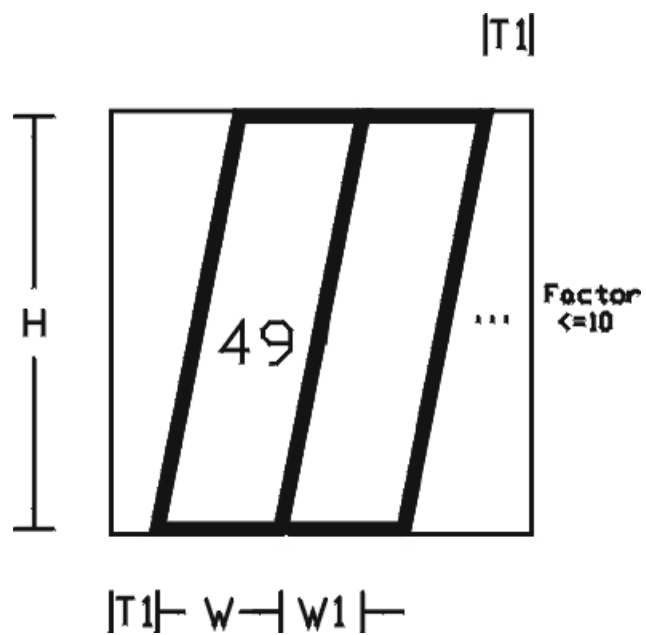
$$W1 > 0$$

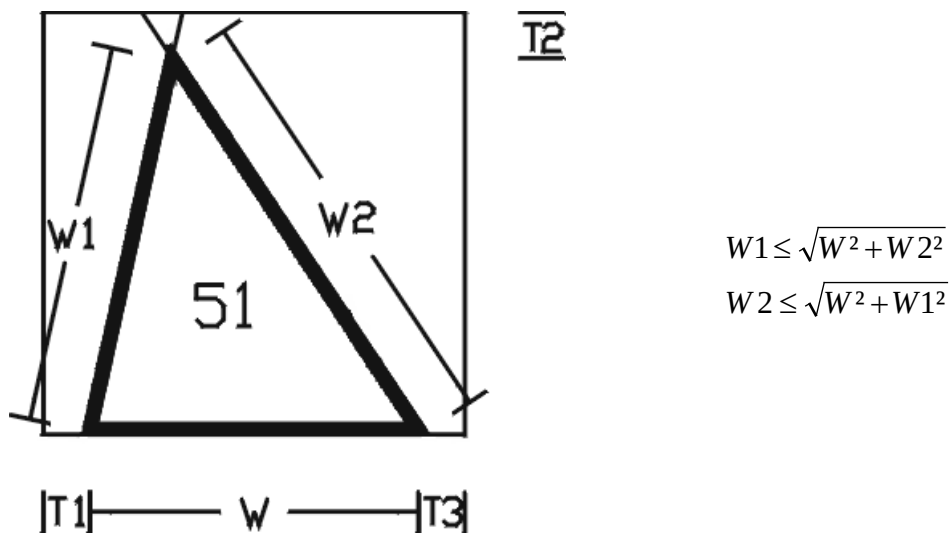
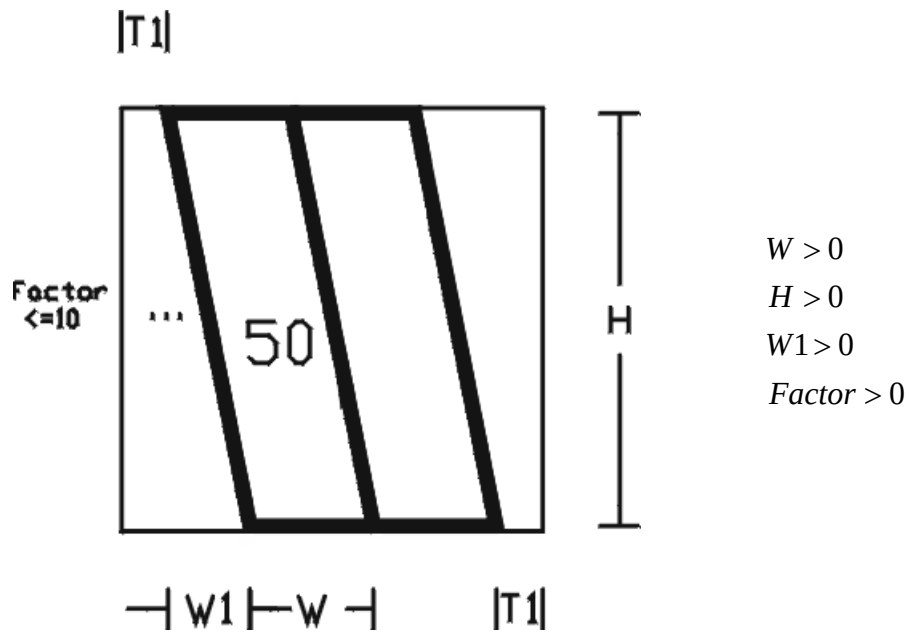
$$H1 > 0$$

$W > 0$
 $H > 0$
 $W1 \geq 0$
 $W2 \geq 0$
 $W + W2 > W1$



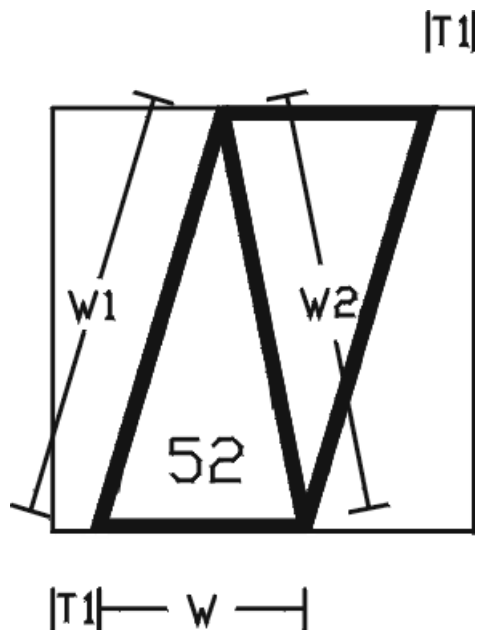
$W > 0$
 $H > 0$
 $W1 > 0$
 $Factor > 0$





$$W1 \leq \sqrt{W^2 + W2^2}$$

$$W2 \leq \sqrt{W^2 + W1^2}$$



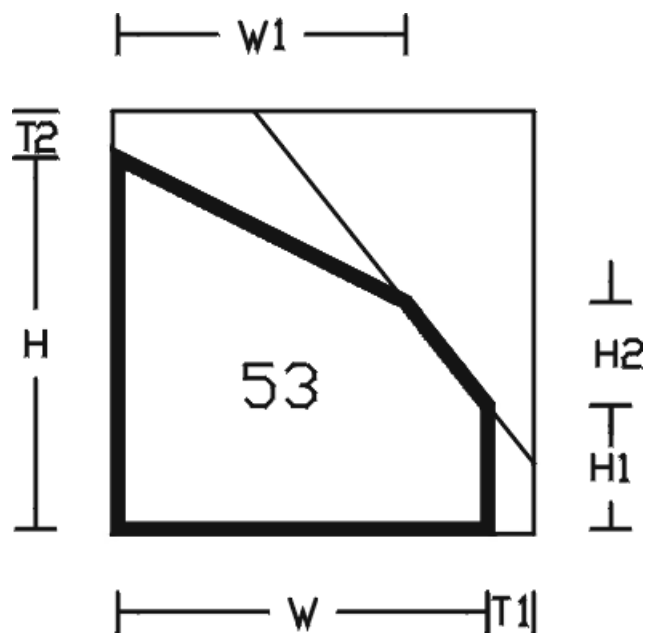
$$H1 > 0$$

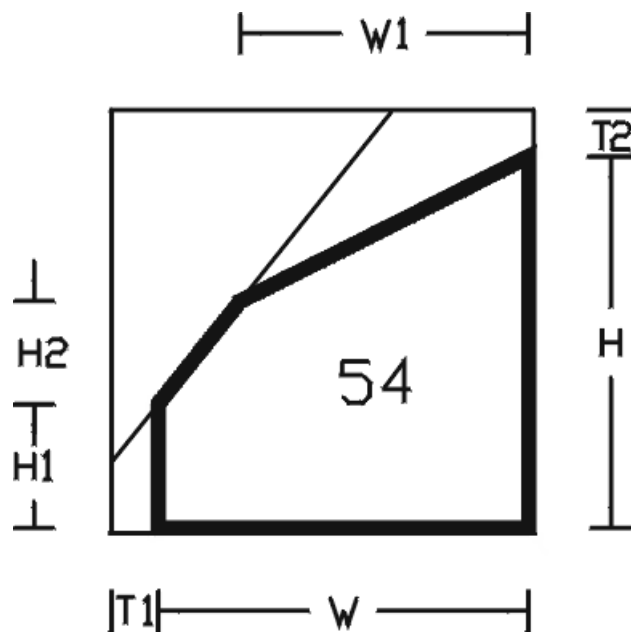
$$H2 > 0$$

$$H > H1 + H2 > H$$

$$W > W1 > 0$$

$$H2 / (W - W1) > (H - H1) / E$$





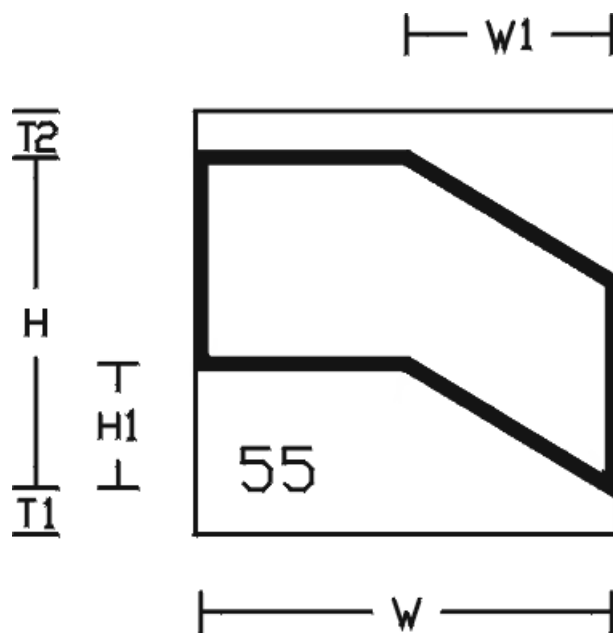
$$H1 > 0$$

$$H2 > 0$$

$$H > H1 + H2 > H$$

$$W > W1 > 0$$

$$H2 / (W - W1) > (H - H1 - H2) / 1$$

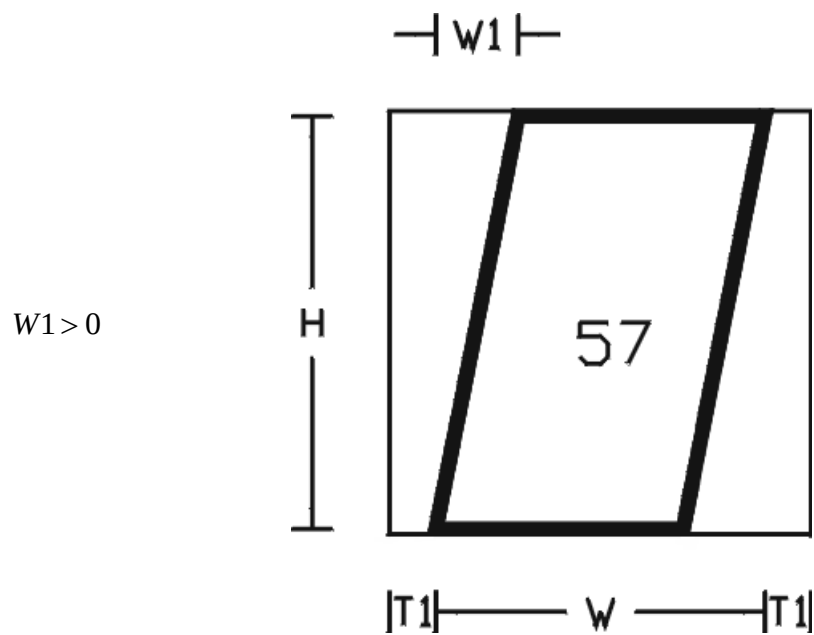
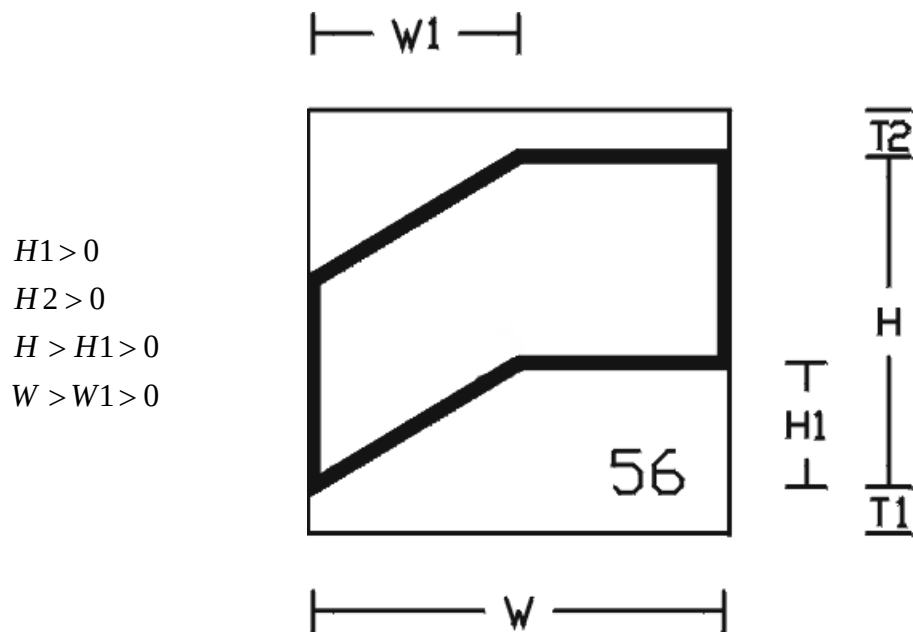


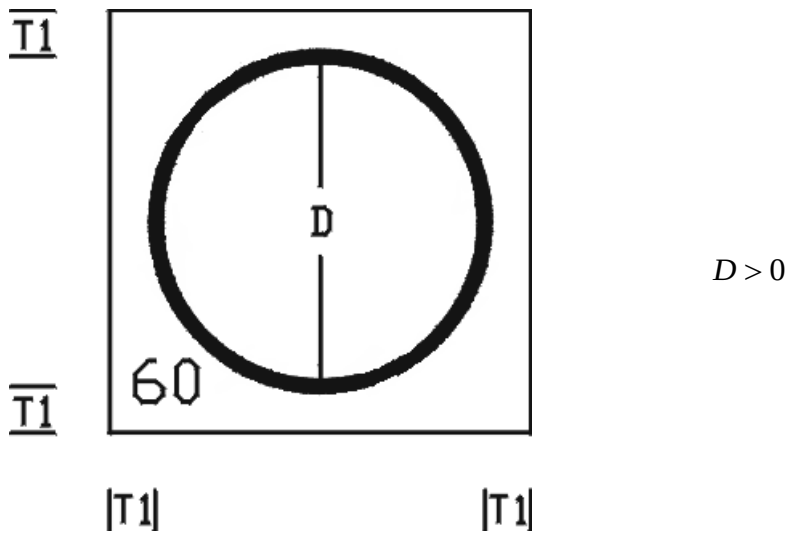
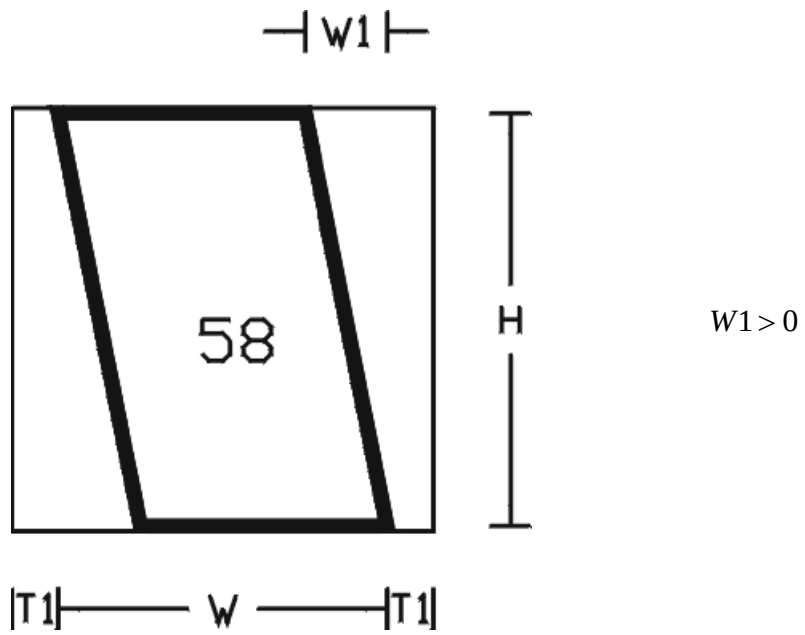
$$H1 > 0$$

$$H2 > 0$$

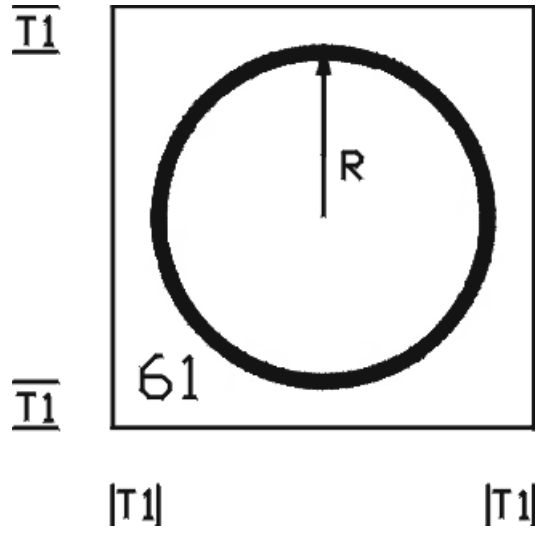
$$H > H1 > 0$$

$$W > W1 > 0$$



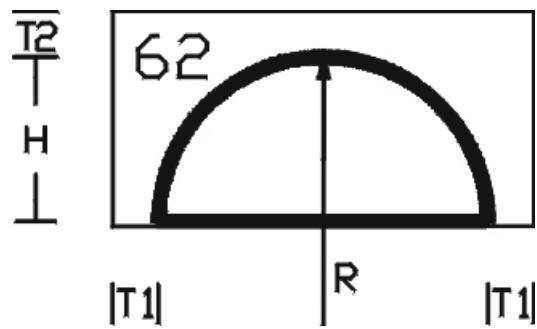


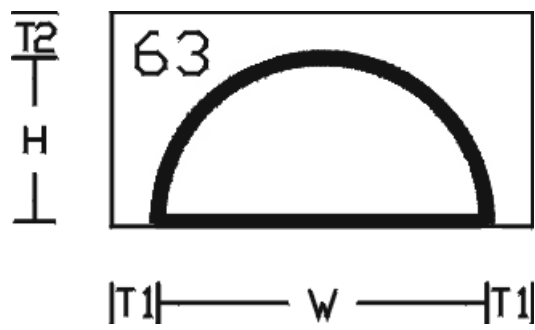
$$R > 0$$



$$H \leq R$$

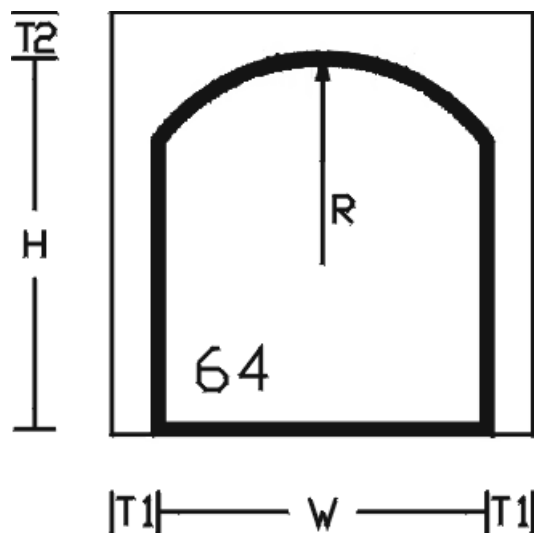
$$H > 0$$





$$2 * H \leq R$$

$$H > 0$$



$$W \leq 2 * R$$

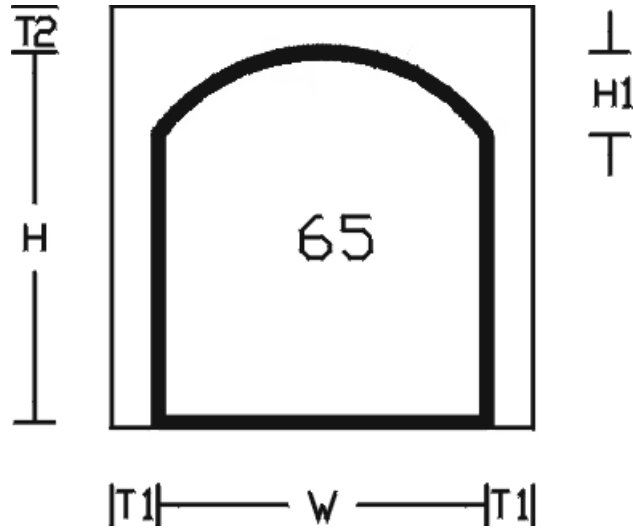
$$R - \sqrt{R^2 - \frac{W^2}{4}} < H$$

$$R - \sqrt{R^2 - \frac{W^2}{4}} > 0$$

$$2 * H1 \leq W$$

$$H1 < H$$

$$H1 > 0$$



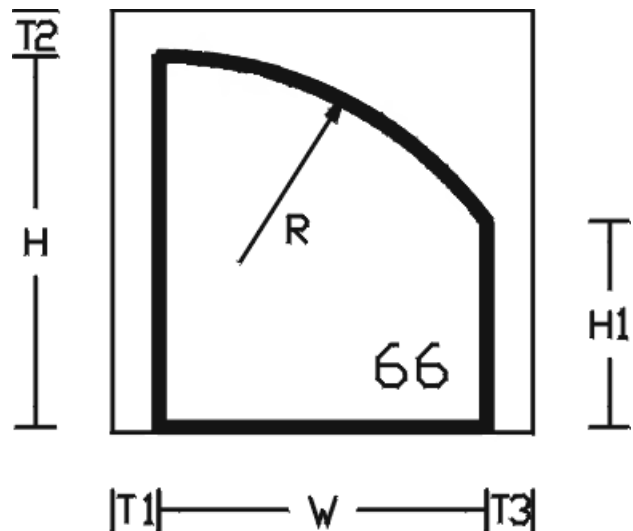
$$H1 < H$$

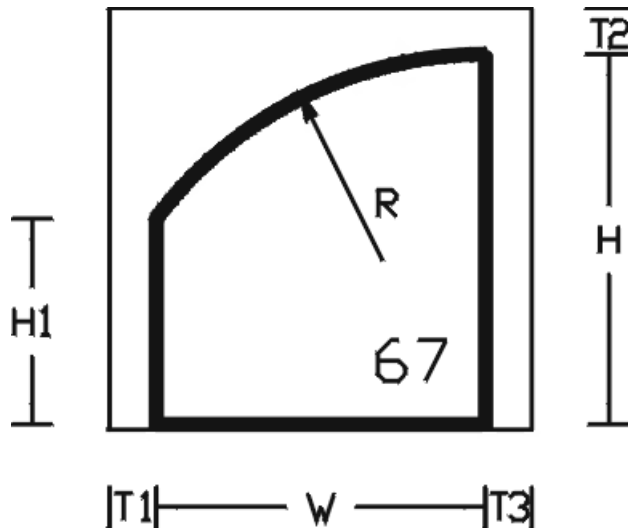
$$\sqrt{W^2 + (H - H1)^2} \leq 2 * R$$

$$W > 0$$

$$H1 > 0$$

$$R > 0$$





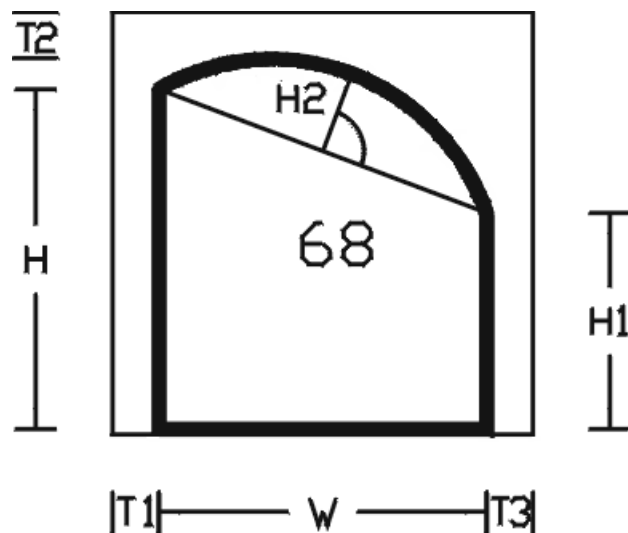
$$H1 < H$$

$$\sqrt{W^2 + (H - H1)^2} \leq 2 * R$$

$$W > 0$$

$$H1 > 0$$

$$R > 0$$



$$H1 < H$$

$$2 * H2 \leq \sqrt{W^2 + (H - H1)^2}$$

$$H2 > 0$$

$$H1 > 0$$

$$W > 0$$

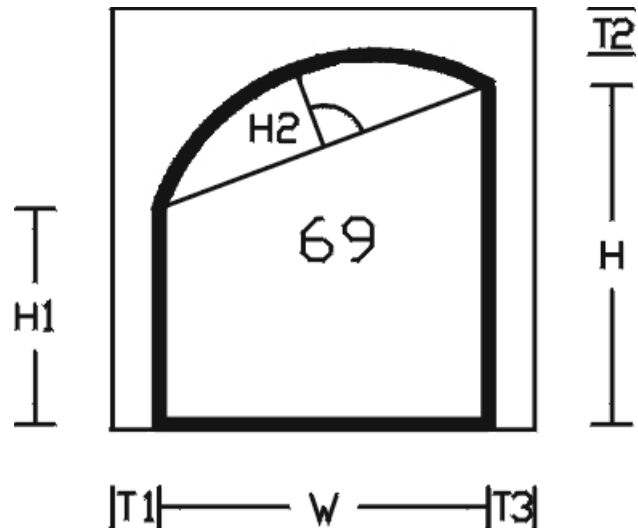
$$H1 < H$$

$$2 * H2 \leq \sqrt{W^2 + (H - H1)^2}$$

$$H2 > 0$$

$$H1 > 0$$

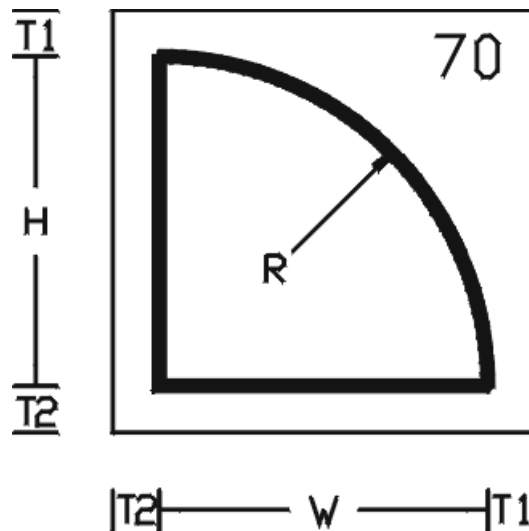
$$W > 0$$

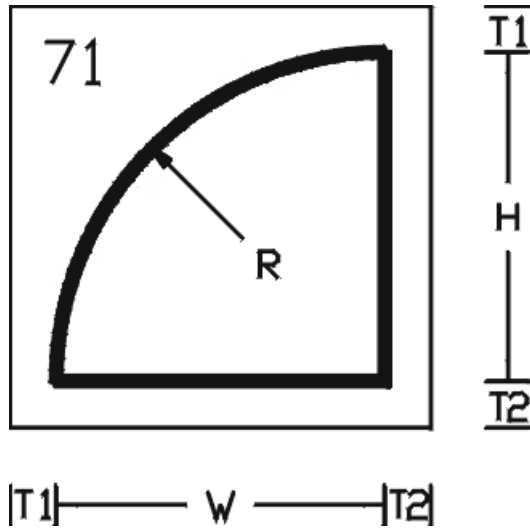


$$\sqrt{W^2 + H^2} \leq 2 * R$$

$$H > 0$$

$$W > 0$$

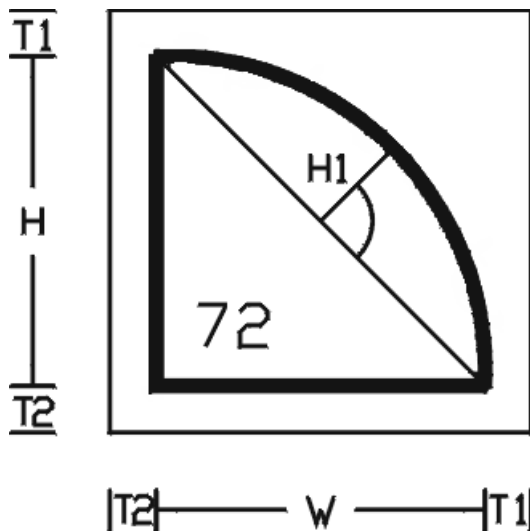




$$\sqrt{W^2 + H^2} \leq 2 * R$$

$$H > 0$$

$$W > 0$$



$$2 * H1 \leq \sqrt{W^2 + H^2}$$

$$W > 0$$

$$H > 0$$

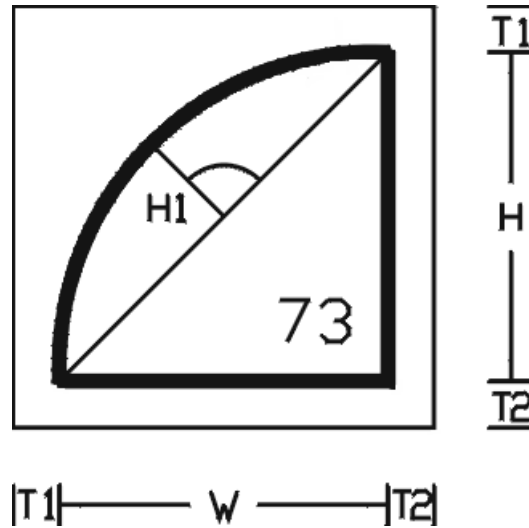
$$H1 > 0$$

$$2 * H1 \leq \sqrt{W^2 + H^2}$$

$$W > 0$$

$$H > 0$$

$$H1 > 0$$



$$R1 \leq H$$

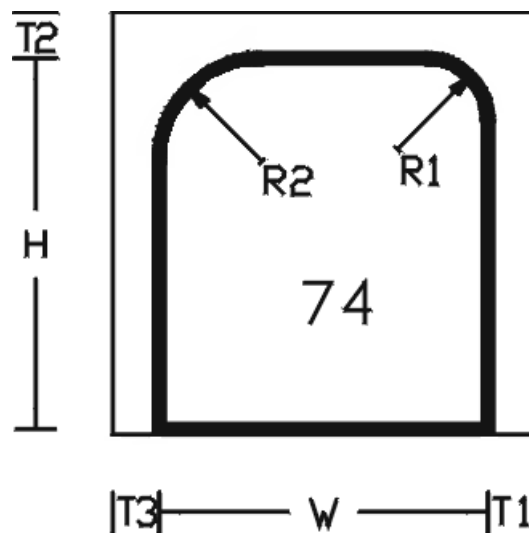
$$R2 \leq H$$

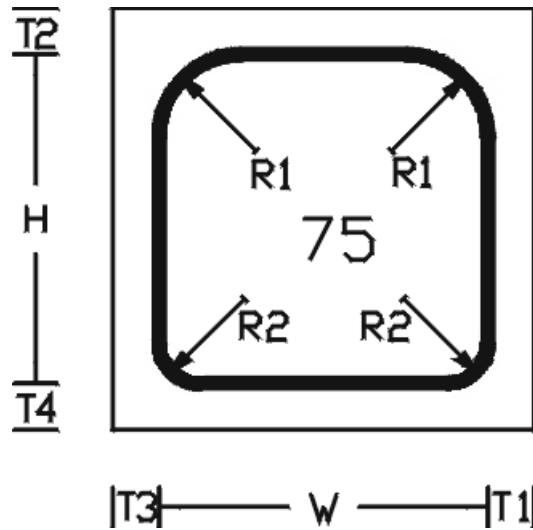
$$R1 + R2 \leq W$$

$$R1 > 0$$

$$R2 > 0$$

$$W > 0$$





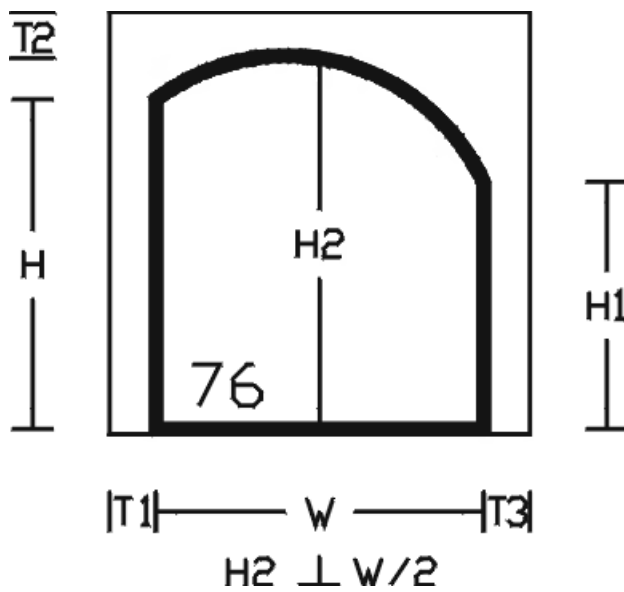
$$2 * R1 \leq W$$

$$2 * R2 \leq W$$

$$R1 + R2 \leq H$$

$$R1 > 0$$

$$R2 > 0$$



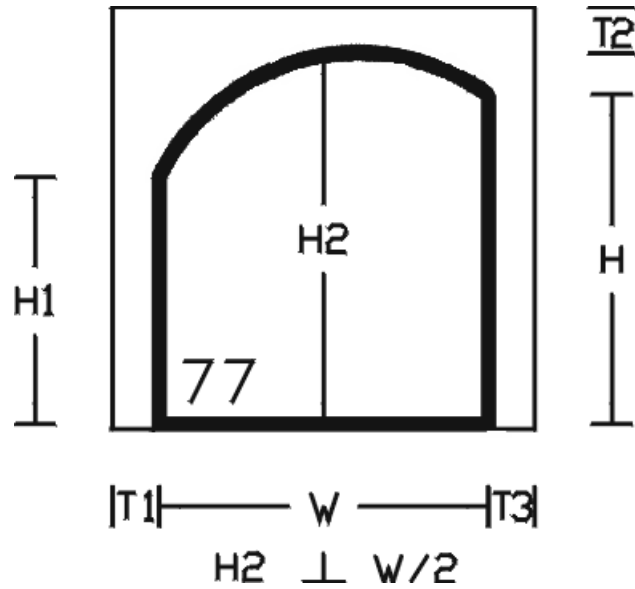
$$H > H1$$

$$H2 > \frac{(H + H1)}{2}$$

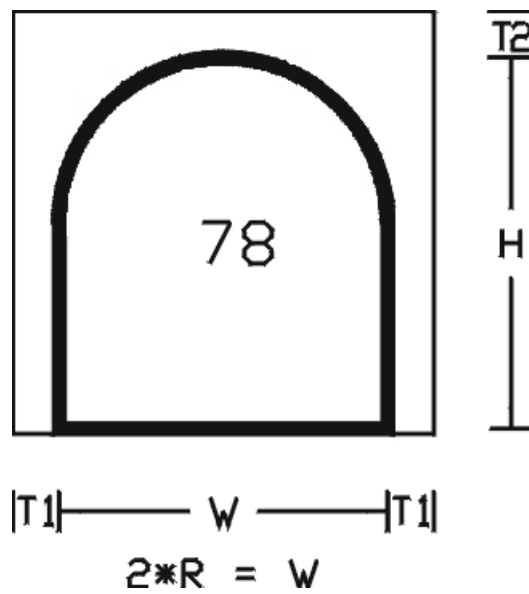
$$H1 > 0$$

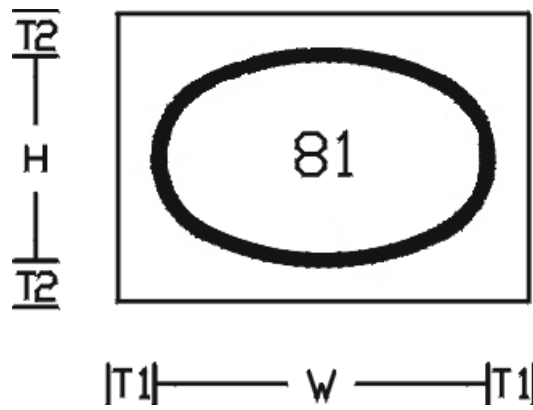
$$W > 0$$

$$\begin{aligned}
 H &> H1 \\
 H2 &> \frac{(H + H1)}{2} \\
 H1 &> 0 \\
 W &> 0
 \end{aligned}$$



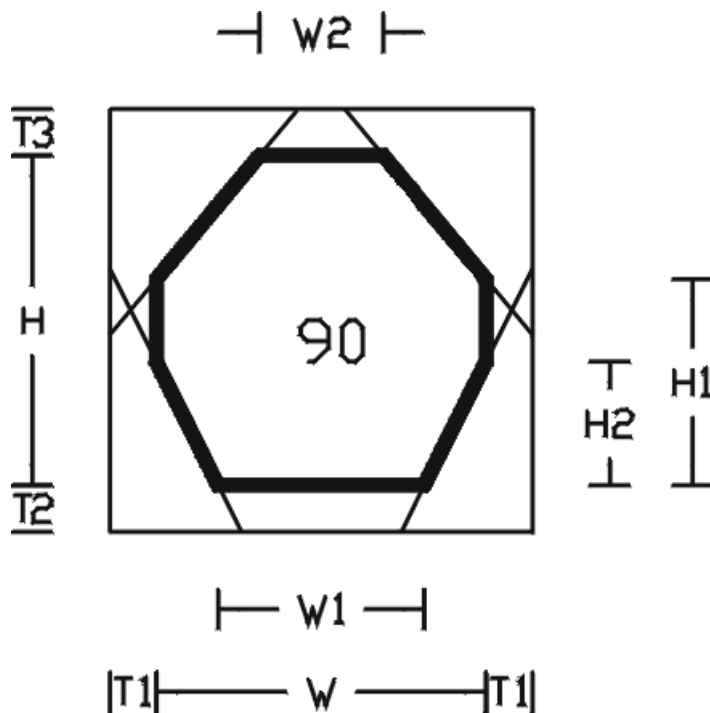
$$\begin{aligned}
 H &> 0 \\
 W &> 0 \\
 H &> \frac{W}{2}
 \end{aligned}$$





$$H < W < 10 * H$$

$$H > 0$$



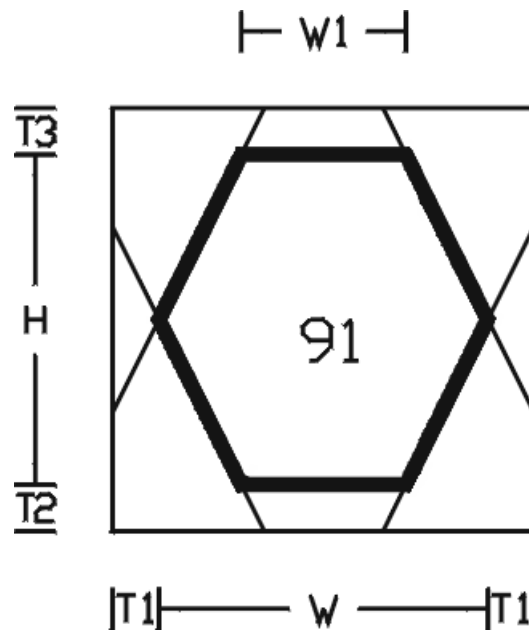
$$W > W1 > 0$$

$$W2 > 0$$

$$H > H1 > H2 > 0$$

$$W > W_1 > 0$$

$$H > 0$$

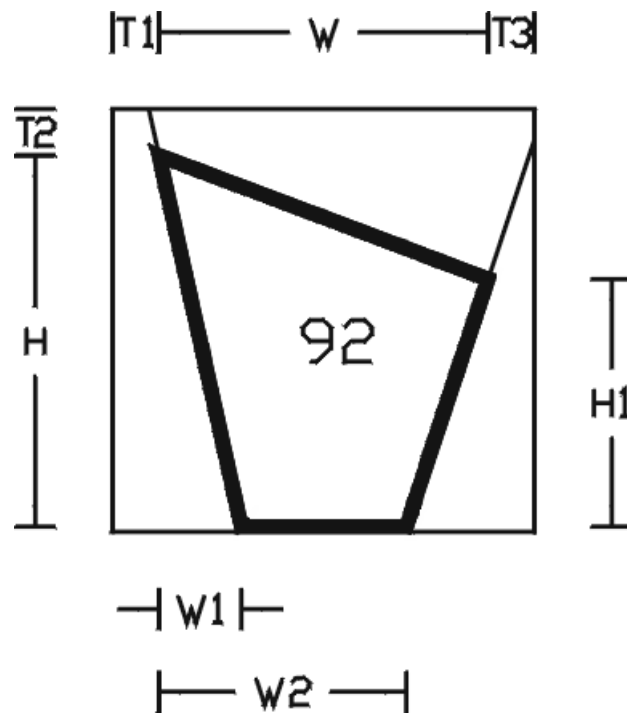


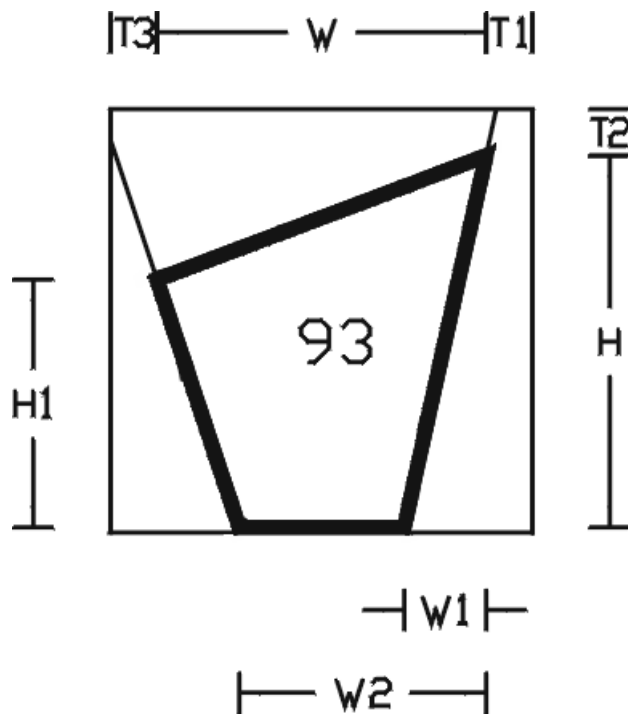
$$W \geq W_2$$

$$W_1 \geq 0$$

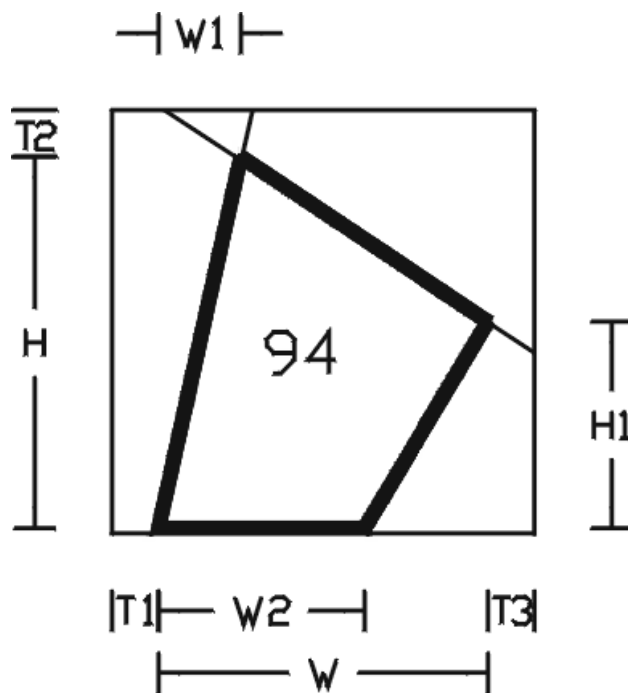
$$W_2 > W$$

$$H \geq H_1 > 0$$



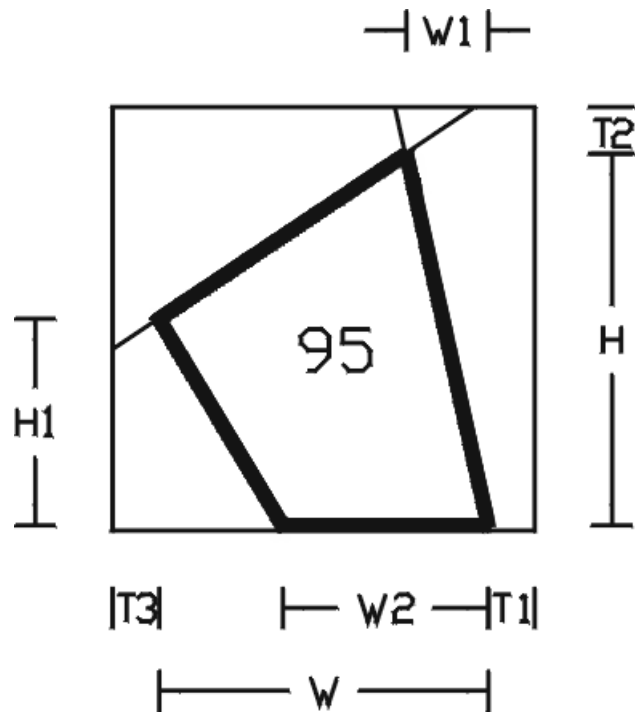


$$\begin{aligned} W &\geq W2 \\ W1 &\geq 0 \\ W2 &> W \\ H &\geq H1 > 0 \end{aligned}$$

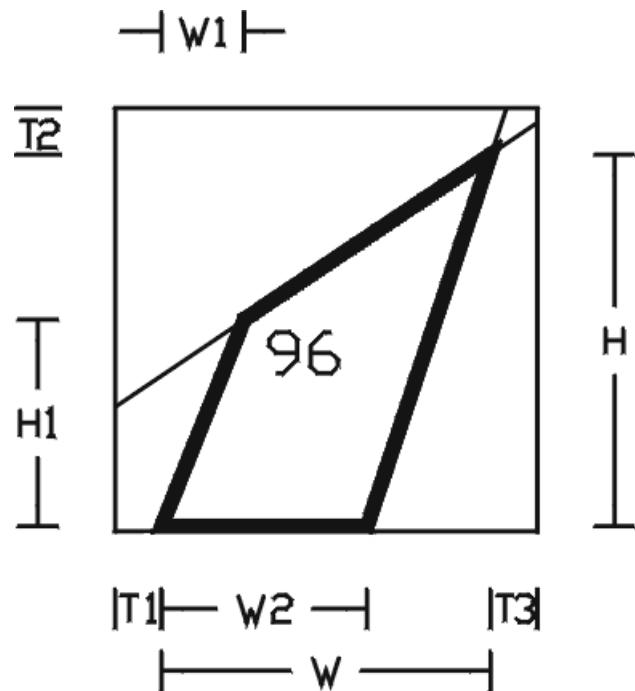


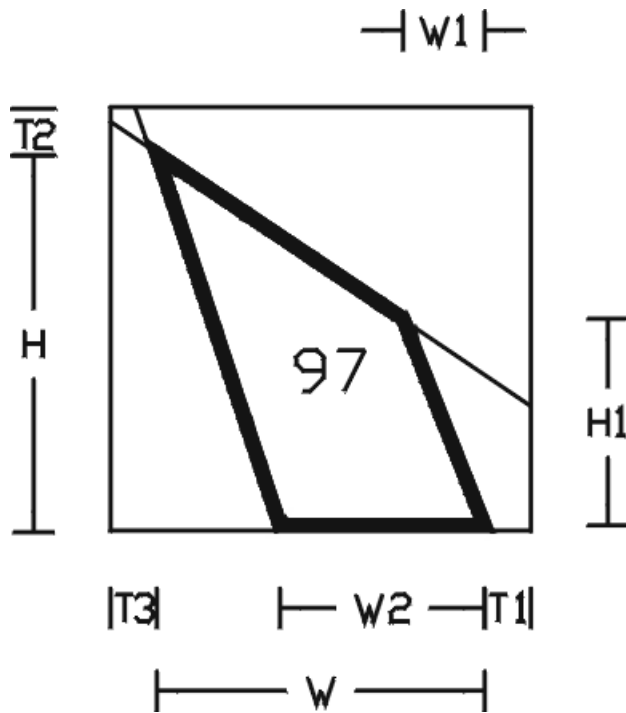
$$\begin{aligned} W1 &> 0 \\ W2 &> 0 \\ W &> W1 \\ W &> W2 \\ H &\geq H1 > 0 \end{aligned}$$

$W1 > 0$
 $W2 > 0$
 $W > W1$
 $W > W2$
 $H \geq H1 > 0$

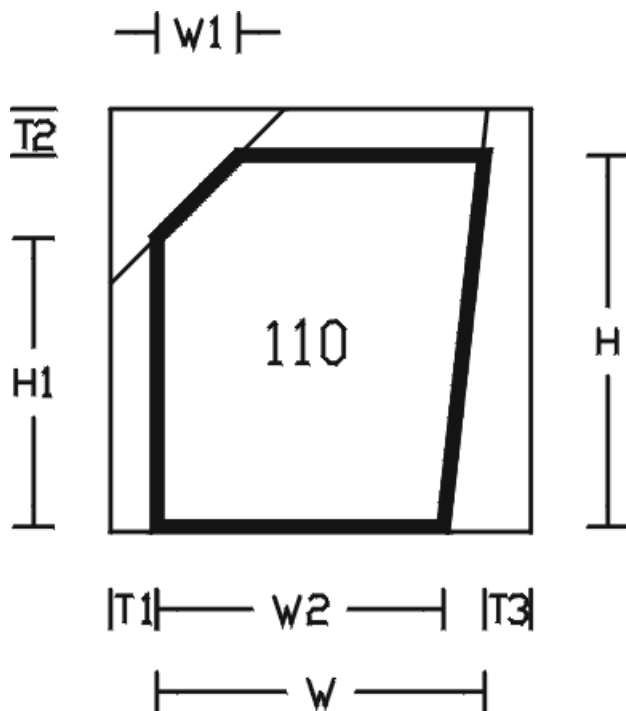


$W1 > 0$
 $W2 > 0$
 $W > W1$
 $W > W2$
 $H \geq H1 > 0$



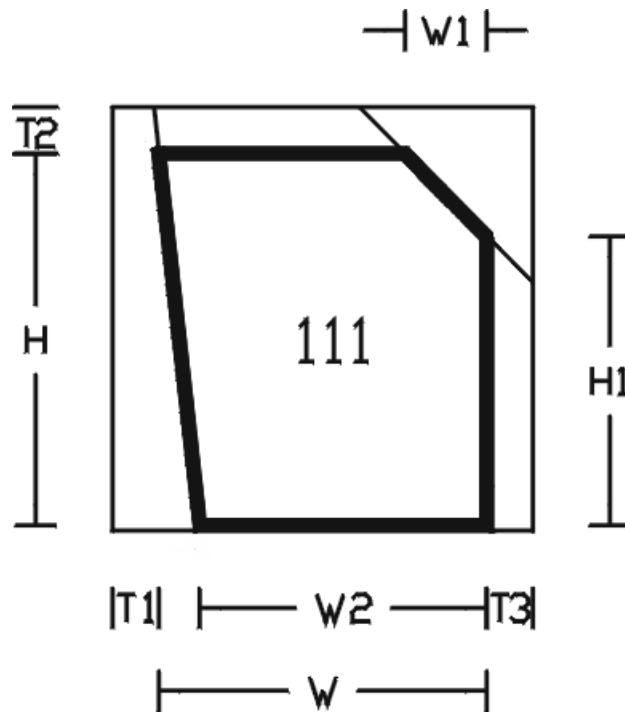


$$\begin{aligned} W_1 &> 0 \\ W_2 &> 0 \\ W &> W_1 \\ W &> W_2 \\ H &\geq H_1 > 0 \end{aligned}$$

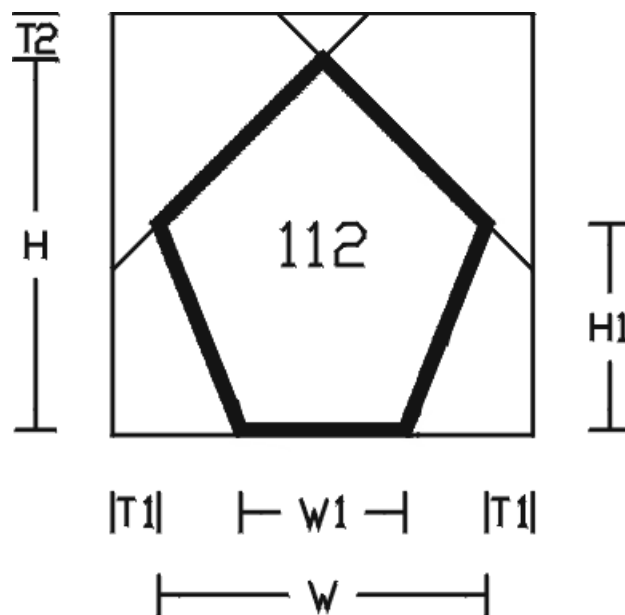


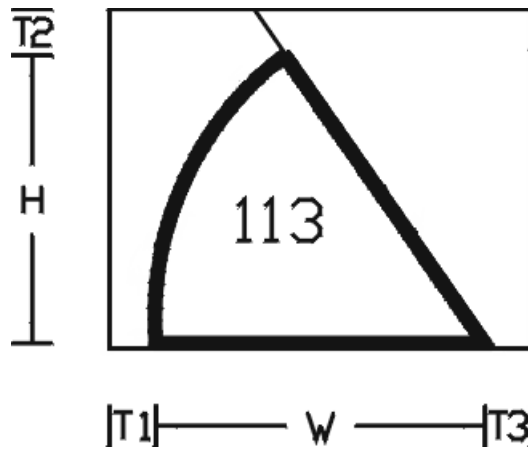
$$\begin{aligned} W &> W_1 \\ W &\geq W_2 \\ W_1 &> 0 \\ W_2 &> 0 \\ H &> H_1 > 0 \end{aligned}$$

$$\begin{aligned} W &> W_1 \\ W &\geq W_2 \\ W_1 &> 0 \\ W_2 &> 0 \\ H &> H_1 > 0 \end{aligned}$$



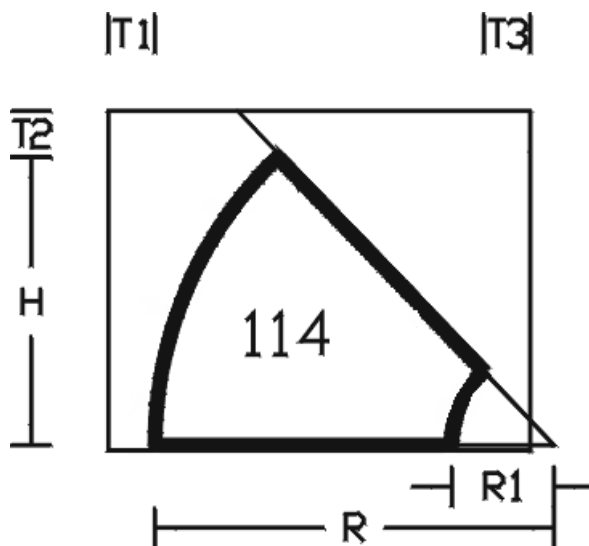
$$\begin{aligned} W_1 &> 0 \\ W &\geq W_1 \\ H &> H_1 > 0 \end{aligned}$$





$$H > 0$$

$$W \geq H$$



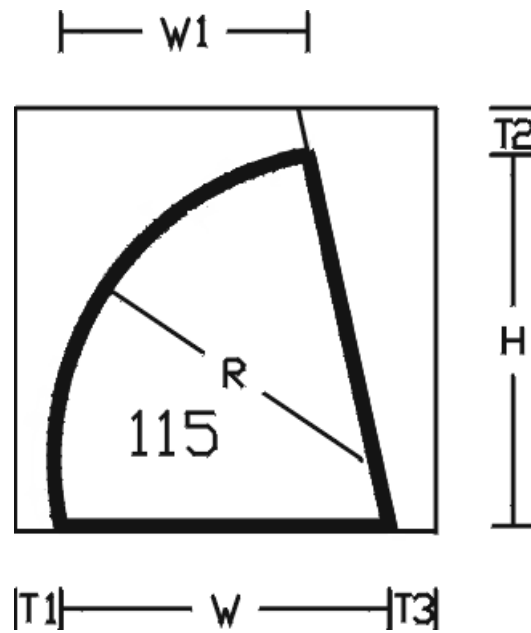
$$R > R1 > 0$$

$$R \geq H$$

$$H > 0$$

$$W \geq W1 > 0$$

$$2R \geq \sqrt{W1^2 + H^2}$$

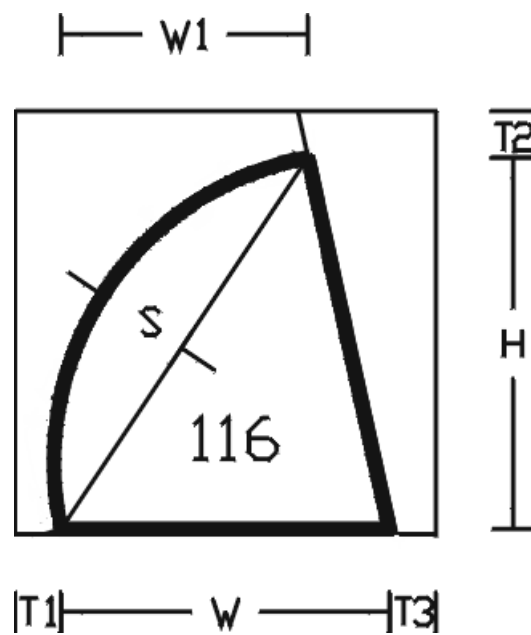


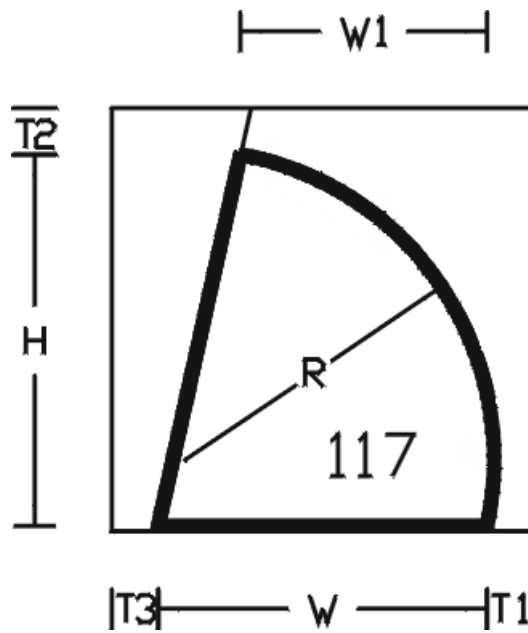
$$W \geq W1 > 0$$

$$S > 0$$

$$H > 0$$

$$2S \geq \sqrt{W1^2 + H^2}$$

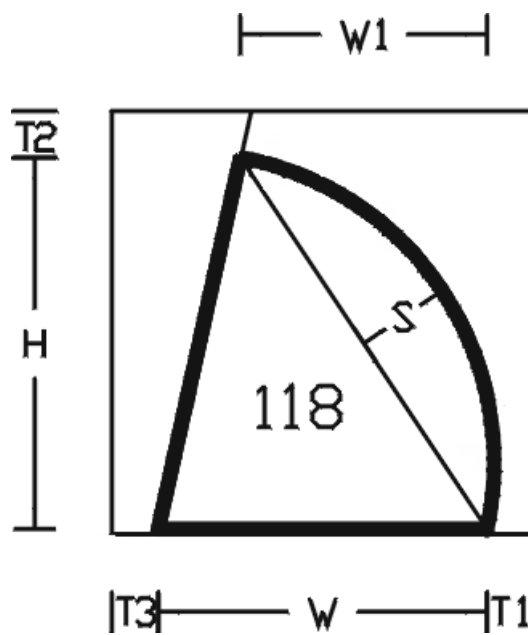




$$W \geq W1 > 0$$

$$2R \geq \sqrt{W1^2 + H^2}$$

$$H > 0$$

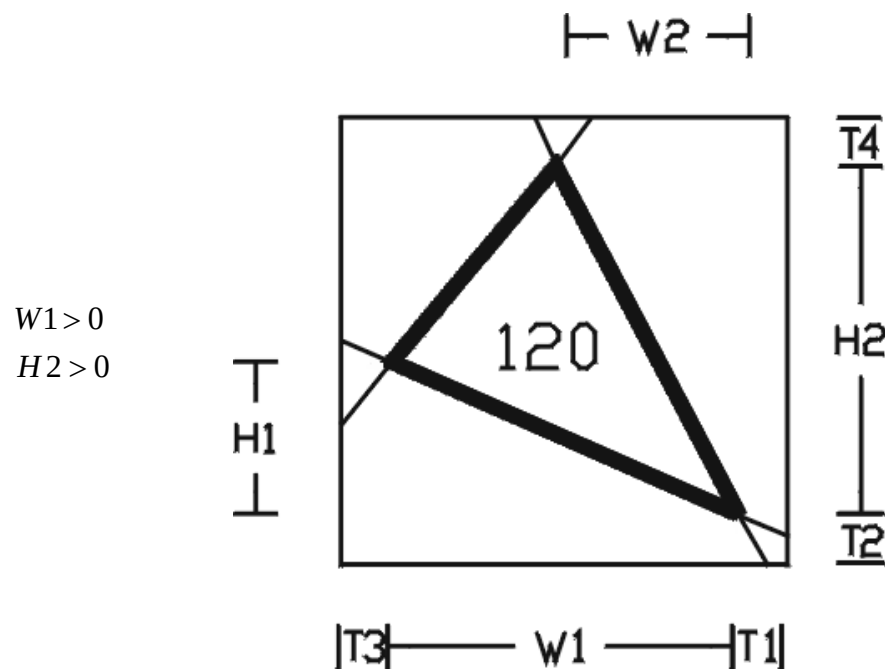
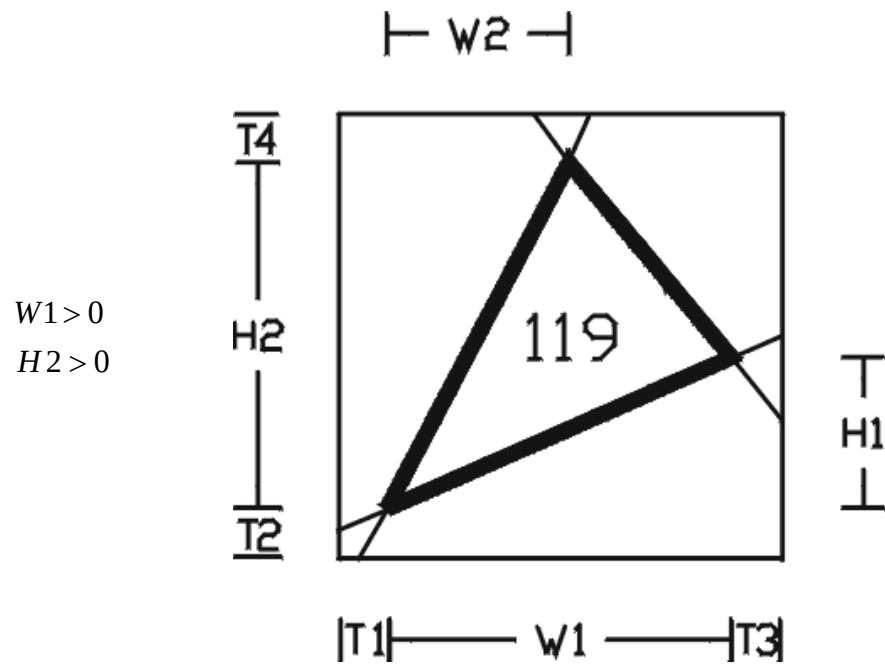


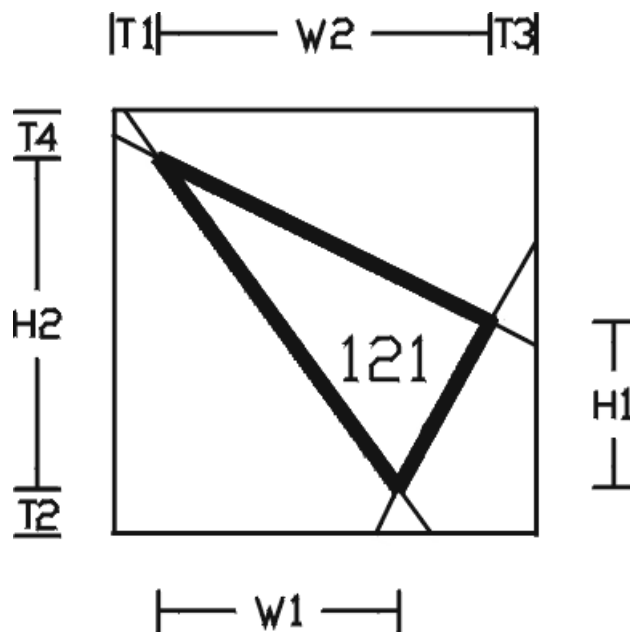
$$W \geq W1 > 0$$

$$S > 0$$

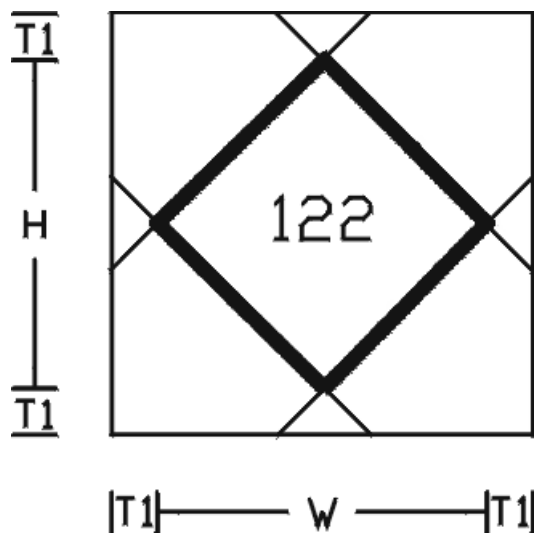
$$H > 0$$

$$2S \geq \sqrt{W1^2 + H^2}$$





$$\begin{aligned} W1 &> 0 \\ W2 &\geq W1 \\ H1 &> 0 \\ H2 &> 0 \end{aligned}$$



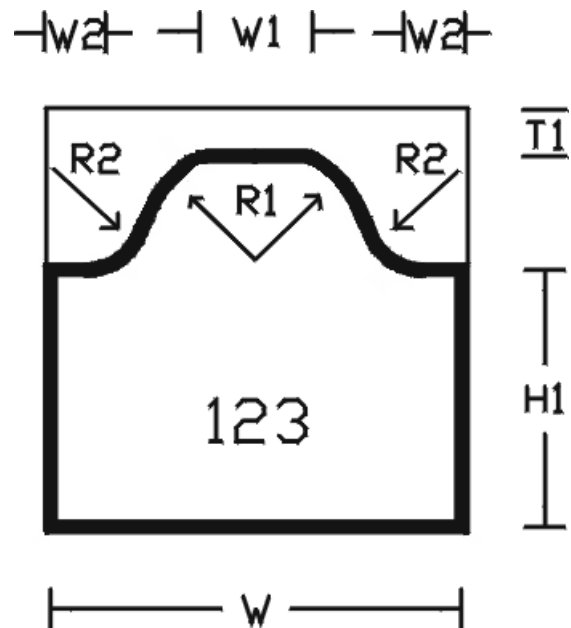
$$\begin{aligned} W &> 0 \\ H &> 0 \end{aligned}$$

$$R2 + R1 > \frac{(W - W1 - 2 * W2)}{2}$$

$$R1 > 0$$

$$R2 > 0$$

$$W > 0$$

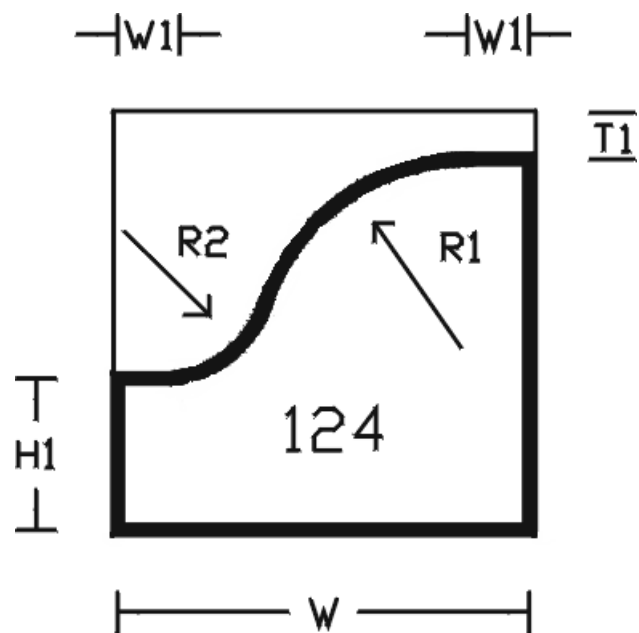


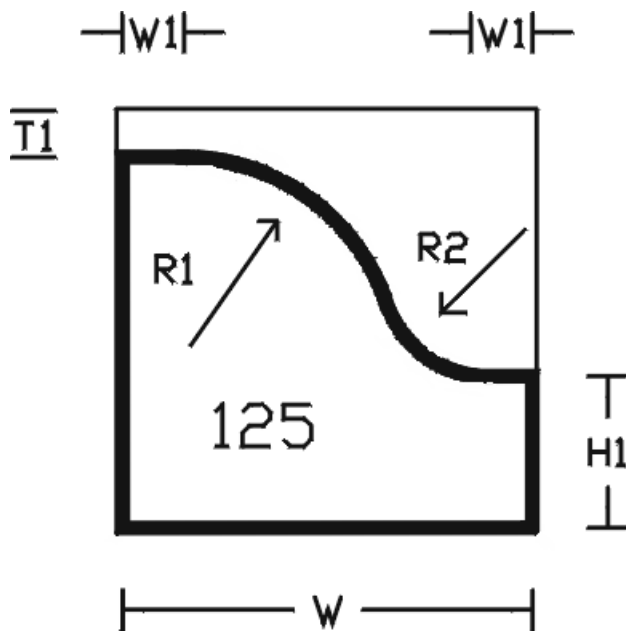
$$R2 + R1 \geq W - 2 * W1$$

$$R1 > 0$$

$$R2 > 0$$

$$W > 0$$



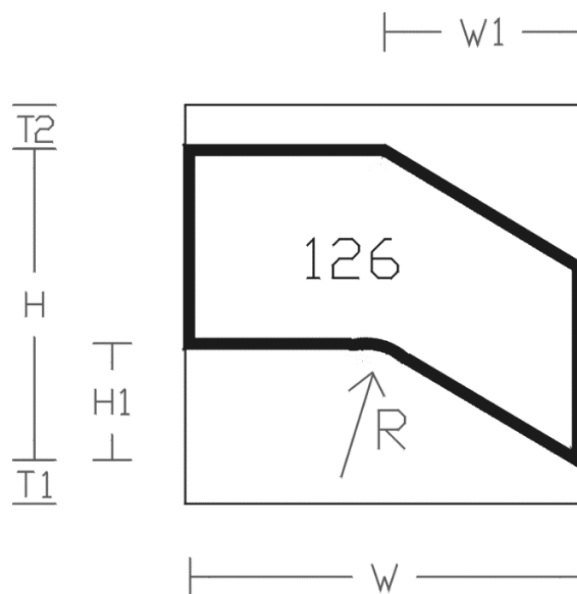


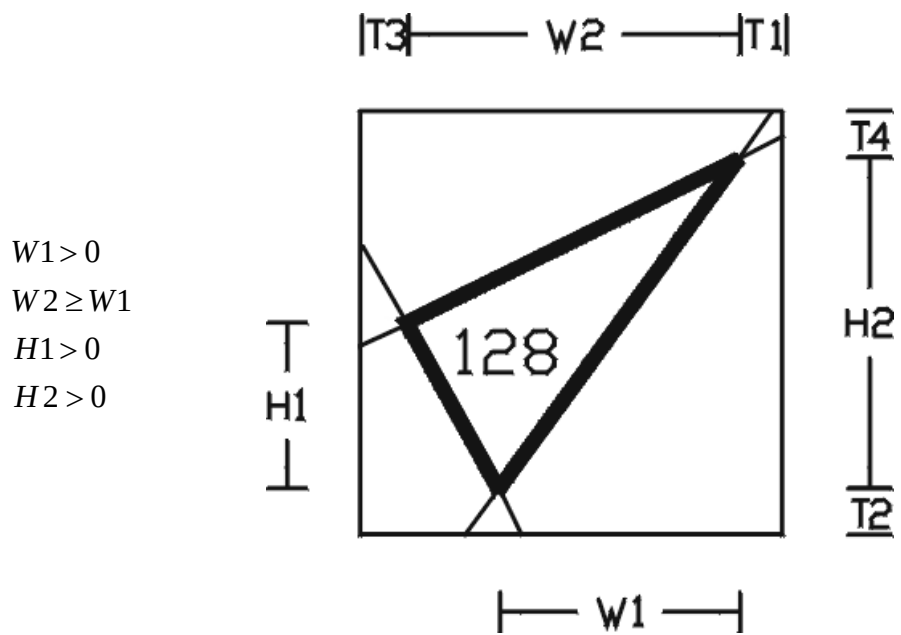
$$R2 + R1 \geq W - 2 * w1$$

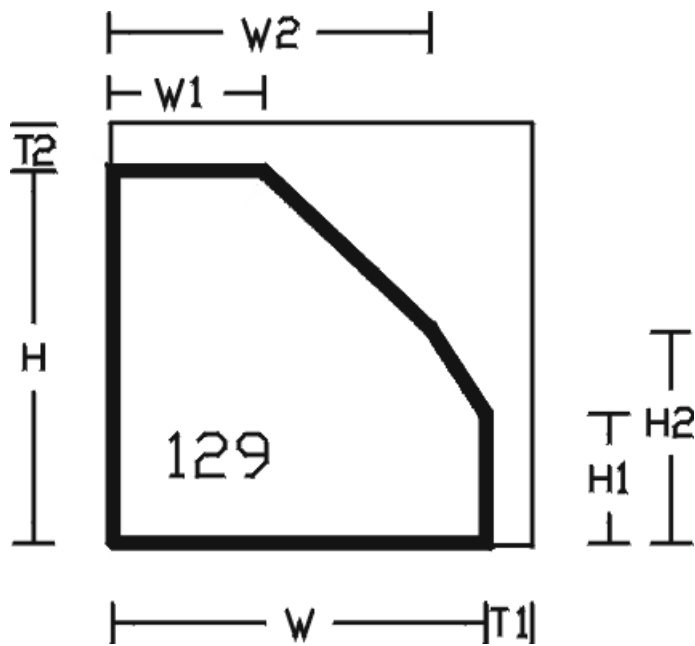
$$R1 > 0$$

$$R2 > 0$$

$$W > 0$$







$$\frac{H - H_1}{W - W_1} > \frac{H - H_2}{W_2 - W_1}$$

$$W_1 > 0$$

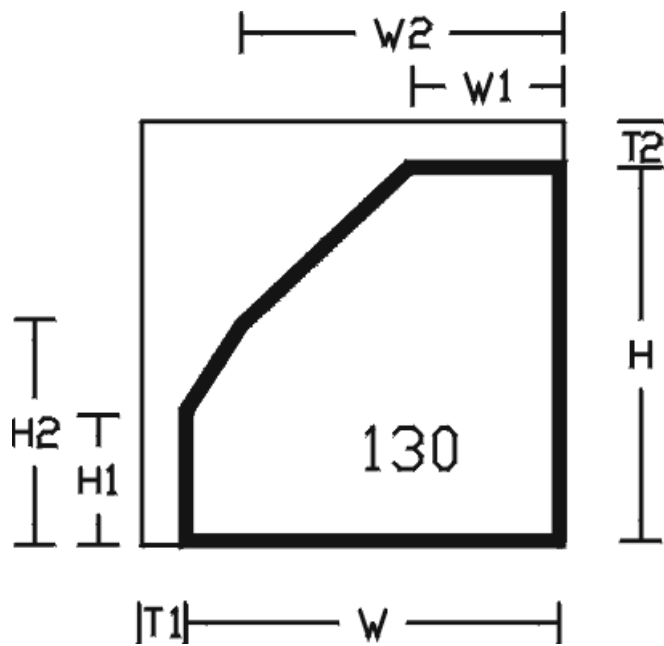
$$W_2 > W_1$$

$$W > W_2$$

$$H_1 > 0$$

$$H_2 > H_1$$

$$H > H_2$$



$$\frac{H - H_1}{W - W_1} > \frac{H - H_2}{W_2 - W_1}$$

$$W_1 > 0$$

$$W_2 > W_1$$

$$W > W_2$$

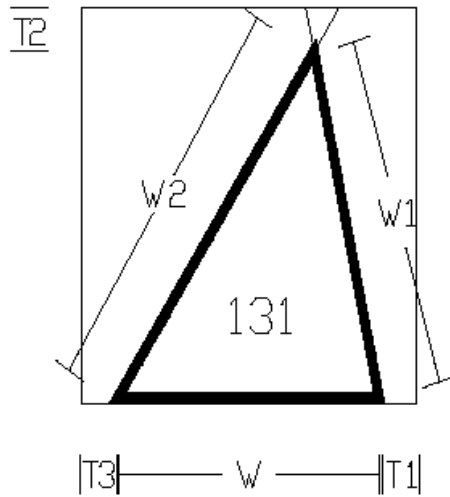
$$H_1 > 0$$

$$H_2 > H_1$$

$$H > H_2$$

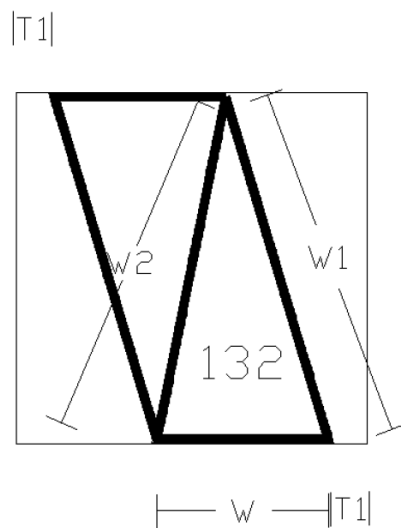
$$W1 \leq \sqrt{W^2 + W2^2}$$

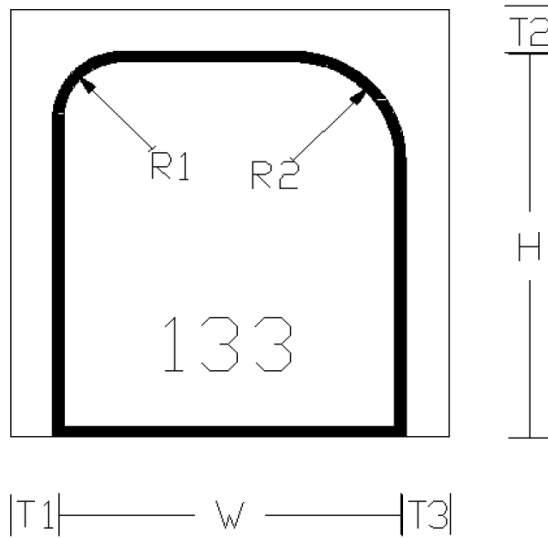
$$W2 \leq \sqrt{W^2 + W1^2}$$



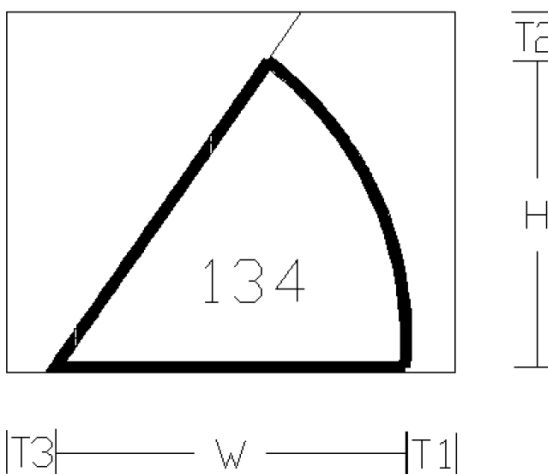
$$W1 \leq \sqrt{W^2 + W2^2}$$

$$W2 \leq \sqrt{W^2 + W1^2}$$





$$\begin{aligned} R1 &\leq H \\ R2 &\leq H \\ R1 + R2 &\leq W \\ R1 &> 0 \\ R2 &> 0 \\ W &> 0 \end{aligned}$$

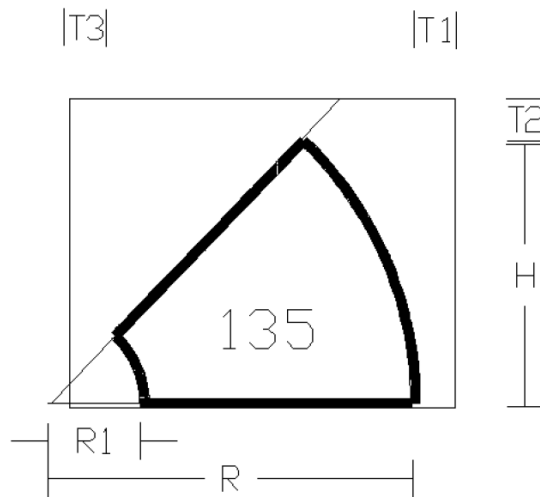


$$\begin{aligned} H &> 0 \\ W &\geq H \end{aligned}$$

$$R > R1 > 0$$

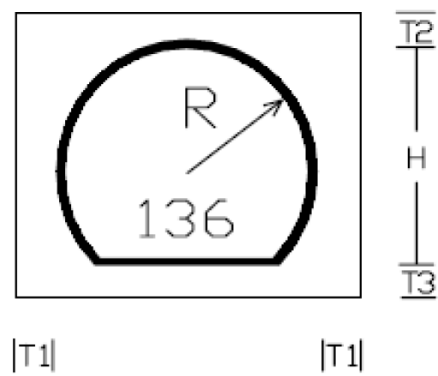
$$R \geq H$$

$$H > 0$$



$$H \geq R > 0$$

$$(2 * R) > H$$



Variable List for A+W Shapes			No. of Segments
Shape No.	1	W,H,H1,T1,T2	4
Shape No.	2	W,H,H1,T1,T2	4
Shape No.	3	W,W1,H,H1,T1,T2	5
Shape No.	4	W,W1,H,H1,T1,T2	5
Shape No.	5	W,W1,W2,H,T1,T2,T3	4
Shape No.	6	W,W1,W2,H,T1,T2,T3	4
Shape No.	7	W,W1,W2,H,H1,T1,T2,T3	5
Shape No.	8	W,W1,W2,H,H1,T1,T2,T3	5
Shape No.	9	W,W1,W2,H,H1,H2,T1,T2,T3	6
Shape No.	10	W,W1,W2,H,H1,H2,T1,T2,T3	6
Shape No.	11	W,W1,H,H1,T1,T2,T3	4
Shape No.	12	W,W1,H,H1,T1,T2,T3	4
Shape No.	13	W,W1,H,H1,T1,T2,T3	4
Shape No.	14	W,W1,H,H1,T1,T2	4
Shape No.	15	W,W1,H,H1,T1,T2	4
Shape No.	16	W,W1,H,H1,T1,T2,T3	4
Shape No.	17	W,W1,H,H1,T1,T2	4
Shape No.	18	W,W1,H,H1,T1,T2	4
Shape No.	19	W,W1,H,H1,T1,T2	8
Shape No.	20	W,T1	3
Shape No.	21	W,T1	5
Shape No.	22	W,T1	6
Shape No.	23	W,T1	7
Shape No.	24	W,T1	8
Shape No.	25	W,W1,H, T1,T2,T3	3
Shape No.	26	W,W1,H, T1,T2,T3	3

Shape No.	27	W,W1,H, T1	3
Shape No.	28	W,W1,H, T1	3
Shape No.	30	W,H,H1,H2	4
Shape No.	31	W,H,H1,H2	4
Shape No.	32	W,W1,W2,H,T1	4
Shape No.	33	W,H,T1	3
Shape No.	34	W,H,T1	3
Shape No.	35	W,W1,H, T1	4
Shape No.	36	W,W1,H, T1	4
Shape No.	37	W,W1,H,H1,H2,T1,T2,T3	5
Shape No.	38	W,W1,H,H1,H2,T1,T2,T3	5
Shape No.	39	W,W1,W2,H,H1,H2,T1,T2,T3	4
Shape No.	40	W,W1,W2,H,H1,H2,T1,T2,T3	4
Shape No.	41	W,W1,H, T1,T2,T3	3
Shape No.	42	W,W1,H, T1,T2,T3	3
Shape No.	43	W,W1,W2,H,H1,H2,T1,T2,T3,T4	6
Shape No.	44	W,W1,W2,H,H1,H2,T1,T2,T3,T4	6
Shape No.	45	W,H	3
Shape No.	46	W,H	3
Shape No.	47	W,W1,W2,H,T1,T2	4
Shape No.	48	W,W1,W2,H,T1,T2	4
Shape No.	49	W,W1,H,Factor,T1	4
Shape No.	50	W,W1,H,Factor,T1	4
Shape No.	51	W,W1,W2, T1,T2,T3	3
Shape No.	52	W,W1,W2, T1	3
Shape No.	53	W,W1, H,H1,H2,T1,T2	5
Shape No.	54	W,W1,H,H1,H2,T1,T2	5
Shape No.	55	W,W1,H,H1,T1,T2	6
Shape No.	56	W,W1,H,H1,T1,T2	6

Shape No.	57	W,W1,H, T1	4
Shape No.	58	W,W1,H, T1	4
Shape No.	60	D,T1	1
Shape No.	61	R,T1	1
Shape No.	62	R,H,T1,T2	2
Shape No.	63	W,H,T1,T2	2
Shape No.	64	W,R,H,T1,T2	4
Shape No.	65	W,H,H1,T1,T2	4
Shape No.	66	W,R,H,H1,T1,T2,T3	4
Shape No.	67	W,R,H,H1,T1,T2,T3	4
Shape No.	68	W,H,H1,H2,T1,T2,T3	4
Shape No.	69	W,H,H1,H2,T1,T2,T3	4
Shape No.	70	W,R,H,T1,T2	3
Shape No.	71	W,R,H,T1,T2	3
Shape No.	72	W,H,H1,T1,T2	3
Shape No.	73	W,H,H1,T1,T2	3
Shape No.	74	W,R1,R2,H,T1,T2,T3	2
Shape No.	75	W,R1,R2,H,T1,T2,T3,T4	1
Shape No.	76	W,H,H1,H2,T1,T2,T3	4
Shape No.	77	W,H,H1,H2,T1,T2,T3	4
Shape No.	78	W,H,T1,T2	2
Shape No.	81	W,H,T1,T2	1
Shape No.	90	W,W1,W2,H,H1,H2,T1,T2,T3	8
Shape No.	91	W,W1,H,T1,T2,T3	6
Shape No.	92	W,W1,W2,H,H1,T1,T2,T3	4
Shape No.	93	W,W1,W2,H,H1,T1,T2,T3	4
Shape No.	94	W,W1,W2,H,H1,T1,T2,T3	4
Shape No.	95	W,W1,W2,H,H1,T1,T2,T3	4
Shape No.	96	W,W1,W2,H,H1,T1,T2,T3	4

Shape No.	97	W,W1,W2,H,H1,T1,T2,T3	4
Shape No.	110	W,W1,W2,H,H1,T1,T2,T3	5
Shape No.	111	W,W1,W2,H,H1,T1,T2,T3	5
Shape No.	112	W,W1,H,H1,T1,T2	5
Shape No.	113	W,H,T1,T2,T3	3
Shape No.	114	R,R1,H,T1,T2,T3	4
Shape No.	115	W,W1,R,H,T1,T2,T3	3
Shape No.	116	W,W1,H,S,T1,T2,T3	3
Shape No.	117	W,W1,R,H,T1,T2,T3	3
Shape No.	118	W,W1,H,S,T1,T2,T3	3
Shape No.	119	W1,W2,H1,H2,T1,T2,T3,T4	3
Shape No.	120	W1,W2,H1,H2,T1,T2,T3,T4	3
Shape No.	121	W1,W2,H1,H2,T1,T2,T3,T4	3
Shape No.	122	W,H,T1	4
Shape No.	123	W,W1,W2,H1,R1,R2,T1	4
Shape No.	124	W,W1,H1, R1,R2, T1	4
Shape No.	125	W,W1,H1, R1,R2, T1	4
Shape No.	126	W,W1,R,H,H1,T1,T2	5
Shape No.	127	W,W1,R,H,H1,T1,T2	5
Shape No.	128	W1,W2,H1,H2,T1,T2,T3,T4	3
Shape No.	129	W,W1,W2,H,H1,H2,T1,T2	6
Shape No.	130	W,W1,W2,H,H1,H2,T1,T2	6
Shape No.	131	W,W1,W2,T1,T2,T3	3
Shape No.	132	W,W1,W2,T1	4
Shape No.	133	W,R1,R2,H,T1,T2,T3	6
Shape No.	134	W,H,T1,T2,T3	3
Shape No.	135	R,R1,H,T1,T2,T3	4
Shape No.	136	R,H,T1,T2,T3	2