

**MULTI-STAGE<sup>®</sup>**  
**ST-8100 SERIES**

**CALCULATING CHARTS**



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# **MULTI-STAGE<sup>®</sup>**

## **CALCULATING CHARTS**

### **QUOTATION GUIDELINES**

- 1) All figures are for the minimum number of parts required.
- 2) Check with customer if extra legs or snap pins would be needed (5% of total quantity of pins)
- 3) When quoting stages over 48" high, double the quantity of braces.
- 4) When using extension legs, increase the number of 2-3/8" snap pins by 50%.

Note: The Multi-Stage Calculating Chart for Ramps is included on page 17 of this booklet.

## MULTI-STAGE CALCULATING CHARTS

8' Wide x \_\_\_\_\_

Stage Size W x L x H	1-1/2" Legs										1-3/4" Extensions										
	0106-039-6, 4'x4' Deck	# of Legs Required	0065-0289-012, 12"	0065-0289-024, 24"	0065-0289-030, 30"	0065-0289-036, 36"	0065-0299-024, 24"	0065-0299-030, 30"	0065-0299-036, 36"	0030-086, 48"	0022-26-04, Base Pad	0022-26-08, 4'Guardrail	0106-016, 8'Guardrail	0069-0026, Guardrail Post	0010-21, 4' Diagonal Bracket	0106-158, 4'-6" Stair Brace	0106-156, 2-3' Stair Pkg.	0068-292, 3'-4' Stair Pkg.	0106-214-4 or 0106-223-4 Guard Rail Panel		
8 x 8 x	4	9									9	2	6	4	4	4				18	6
8 x 12 x	6	12									12	2	6	5	4	4				24	7
8 x 16 x	8	15									15	2	8	5	4	4				30	8
8 x 20 x	10	18									18	2	8	6	4	6				36	9
8 x 24 x	12	21									21	2	10	6	4	6				42	10
8 x 28 x	14	24									24	2	10	7	4	10				48	11
8 x 32 x	16	27									27	2	12	7	4	10				54	12
8 x 36 x	18	30									30	2	12	8	4	12				60	13
8 x 40 x	20	33									33	2	14	8	4	12				66	14
8 x 44 x	22	36									36	2	14	9	4	14				72	15
8 x 48 x	24	39									39	2	16	9	4	14				78	16
8 x 52 x	26	42									42	2	16	10	4	16				84	17
8 x 56 x	28	45									45	2	18	10	4	16				90	18
8 x 60 x	30	48									48	2	18	11	4	18				96	19

NOTE: The components contained in this chart are designed to be used with Multi-Stage Decks that feature the cam lock system. Decks manufactured without the cam lock system require three 4-1/2" Snap Pins per leg. Contact manufacturer for details.

## MULTI-STAGE CALCULATING CHARTS

12' Wide x \_\_\_\_\_

Stage Size W x L x H	0106-039-6, 4'x4' Deck		1-1/2' Legs						1-3/4" Extensions										
	# of Legs Required	0065-0289-012, 12"	0065-0289-024, 24"	0065-0289-030, 30"	0065-0289-036, 36"	0065-0299-024, 24"	0065-0299-030, 30"	0065-0299-036, 36"	0030-086, Base Pad	0022-26-04, 4'Guardrail	0022-26-08, 8'Guardrail	0106-016, Guardrail Post	0069-0026, Corner Bracket	0010-21, 4' Diagonal Brace	0106-158, 4'-6" Stair Pkg.	0106-156, 2-3' Stair Pkg.	0068-292, 3'-4' Stair Pkg.	0106-214-4 or 0106-223-4 Guard Rail Panel	
12 x 12 x	9	16							16	6	6	7	4	8				32	9
12 x 16 x	12	20							20	4	8	7	4	10				40	10
12 x 20 x	15	24							24	6	8	8	4	10				48	11
12 x 24 x	18	28							28	4	10	8	4	12				56	12
12 x 28 x	21	32							32	6	10	9	4	12				64	13
12 x 32 x	24	36							36	4	12	9	4	12				72	14
12 x 36 x	27	40							40	6	12	10	4	14				80	15
12 x 40 x	30	44							44	4	14	10	4	16				88	16
12 x 44 x	33	48							48	6	14	11	4	16				96	17
12 x 48 x	36	52							52	4	16	11	4	18				104	18
12 x 52 x	39	56							56	6	16	12	4	18				112	19
12 x 56 x	42	60							60	4	18	12	4	21				120	20
12 x 60 x	45	64							64	6	18	13	4	20				128	21

NOTE: The components contained in this chart are designed to be used with Multi-Stage Decks that feature the cam lock system. Decks manufactured without the cam lock system require three 4-1/2" Snap Pins per leg. Contact manufacturer for details.

## MULTI-STAGE CALCULATING CHARTS

16' Wide x \_\_\_\_\_

Stage Size W x L x H	0106-039-6, 4'x4' Deck		# of Legs Required						1-1/2" Legs						1-3/4" Extensions															
	16	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	
16 x 16 x	16	25												25	2	12	7	4	10										50	12
16 x 20 x	20	30												30	2	12	8	4	10										60	13
16 x 24 x	24	35												35	2	14	8	4	12										70	14
16 x 28 x	28	40												40	2	14	9	4	12										80	15
16 x 32 x	32	45												45	2	16	9	4	14										90	16
16 x 36 x	36	50												50	2	16	10	4	14										100	17
16 x 40 x	40	55												55	2	18	10	4	14										110	18
16 x 44 x	44	60												60	2	18	11	4	16										120	19
16 x 48 x	48	65												65	2	20	11	4	16										130	20
16 x 52 x	52	70												70	2	20	12	4	18										140	21
16 x 56 x	56	75												75	2	22	12	4	18										150	22
16 x 60 x	60	80												80	2	22	13	4	20										160	23

NOTE: The components contained in this chart are designed to be used with Multi-Stage Decks that feature the cam lock system. Decks manufactured without the cam lock system require three 4-1/2" Snap Pins per leg. Contact manufacturer for details.

## MULTI-STAGE CALCULATING CHARTS

20' Wide x \_\_\_\_\_

Stage Size W x L x H	<div style="display: flex; justify-content: space-between; font-size: small; margin: 0;"> <span>0106-039-6, 4'x4' Deck</span> <span># of Legs Required</span> <span>1-1/2' Legs</span> <span>1-3/4" Extensions</span> </div>																	
	0065-0289-012, 12"	0065-0289-024, 24"	0065-0289-030, 30"	0065-0289-036, 36"	0065-0299-024, 24"	0065-0299-030, 30"	0065-0299-036, 36"	0030-086, 48"	0022-26-04, Base Pad	0022-26-08, 4'Guardrail	0106-016, 8'Guardrail	0069-0026, Guardrail Post	0010-21, 4' Corner Bracket	0106-158, 4'-6" Diagonal Brace	0106-156, 2'-3" Stair Pkg.	0068-292, 3'-4" Stair Pkg.	0106-214-4 or 0106-223-4 Guard Rail Panel	
20 x 20 x	25	36							36	6	12	10	4	12			72	15
20 x 24 x	30	42							42	4	14	10	4	12			84	16
20 x 28 x	35	48							48	6	14	11	4	14			96	17
20 x 32 x	40	54							54	4	16	11	4	14			108	18
20 x 36 x	45	60							60	6	16	12	4	16			120	19
20 x 40 x	50	66							66	4	18	12	4	16			132	20
20 x 44 x	55	72							72	6	18	13	4	18			144	21
20 x 46 x	60	78							78	4	20	13	4	18			156	22
20 x 52 x	65	84							84	6	20	14	4	20			168	23
20 x 56 x	70	90							90	4	22	14	4	20			180	24
20 x 60 x	75	96							96	6	22	15	4	22			192	25

NOTE: The components contained in this chart are designed to be used with Multi-Stage Decks that feature the cam lock system. Decks manufactured without the cam lock system require three 4-1/2" Snap Pins per leg. Contact manufacturer for details.

## MULTI-STAGE CALCULATING CHARTS

24' Wide x \_\_\_\_\_

Stage Size W x L x H	0106-039-6, 4'x4' Deck		# of Legs Required						1-1/2' Legs						1-3/4" Extensions						
	36	49	0065-0289-012, 12"	0065-0289-024, 24"	0065-0289-030, 30"	0065-0289-036, 36"	0065-0299-024, 24"	0065-0299-030, 30"	0065-0299-036, 36"	0030-086, 48"	0022-26-04, Base Pad	0022-26-08, 4'Guardrail	0106-016, 8'Guardrail	0069-0026, Guardrail Post	0106-158, 4' Diagonal Bracket	0106-156, 4'-6" Stair Brace	0106-157, 2-3' Stair Pkg.	0068-292, 3'-4' Stair Pkg.	0106-214-4 or 0106-223-4 Guard Rail Panel		
24 x 24 x	36	49									49	2	18	10	4	16				98	18
24 x 28 x	42	56									56	2	18	11	4	16				112	19
24 x 32 x	48	63									63	2	20	11	4	20				126	20
24 x 36 x	54	70									70	2	20	12	4	20				140	21
24 x 40 x	60	77									77	2	22	12	4	24				154	22
24 x 44 x	66	84									84	2	22	13	4	24				168	23
24 x 48 x	72	91									91	2	24	13	4	28				182	24
24 x 52 x	78	98									98	2	24	14	4	28				196	25
24 x 56 x	84	105									105	2	26	14	4	32				310	26
24 x 60 x	90	112									112	2	26	15	4	32				324	27

NOTE: The components contained in this chart are designed to be used with Multi-Stage Decks that feature the cam lock system. Decks manufactured without the cam lock system require three 4-1/2" Snap Pins per leg. Contact manufacturer for details.

## MULTI-STAGE CALCULATING CHARTS

28' Wide x \_\_\_\_\_

Stage Size W x L x H	0106-039-6, 4'x4' Deck		1-1/2' Legs						1-3/4" Extensions						# of Legs Required					
	49	64	0065-0289-012, 12"	0065-0289-024, 24"	0065-0289-030, 30"	0065-0289-036, 36"	0065-0299-024, 24"	0065-0299-030, 30"	0065-0299-036, 36"	0030-086, Base Pad	0022-26-04, 4'Guardrail	0022-26-08, 8'Guardrail	0106-016, Guardrail Post	0069-0026, Corner Bracket	0010-21, 4' Diagonal Brace	0106-158, 4'-6" Stair Pkg.	0106-156, 2'-3" Stair Pkg.	0068-292, 3'-4" Stair Pkg.	0106-214-4 or 0106-223-4 Guard Rail Panel	
28 x 28 x	49	64								64	6	18	13	4	18				128	21
28 x 32 x	56	72								72	4	20	13	4	20				144	22
28 x 36 x	63	80								80	6	20	14	4	24				160	23
28 x 40 x	70	88								88	4	22	14	4	26				176	24
28 x 44 x	77	96								96	6	22	15	4	30				192	25
28 x 48 x	84	104								104	4	24	15	4	32				208	26
28 x 52 x	91	112								112	6	24	16	4	36				224	27
28 x 56 x	98	120								120	4	26	16	4	38				240	28
28 x 60 x	105	128								128	6	26	17	4	42				256	29

NOTE: The components contained in this chart are designed to be used with Multi-Stage Decks that feature the cam lock system. Decks manufactured without the cam lock system require three 4-1/2" Snap Pins per leg. Contact manufacturer for details.



## MULTI-STAGE CALCULATING CHARTS

32' Wide x \_\_\_\_\_

Stage Size W x L x H	0106-039-6, 4'x4' Deck		# of Legs Required						1-1/2' Legs						1-3/4" Extensions						
	64	81	90	99	108	117	126	135	144	153	162	171	180	189	198	207	216	225	234	243	
32 x 32 x	64	81								81	2	24	13	4	20					162	24
32 x 36 x	72	90								90	2	24	14	4	22					180	25
32 x 40 x	80	99								99	2	26	14	4	26					198	26
32 x 44 x	88	108								108	2	26	15	4	28					216	27
32 x 48 x	96	117								117	2	28	15	4	32					234	28
32 x 52 x	104	126								126	2	28	16	4	34					252	29
32 x 56 x	112	135								135	2	30	16	4	38					270	30
32 x 60 x	120	144								144	2	30	17	4	42					288	31

NOTE: The components contained in this chart are designed to be used with Multi-Stage Decks that feature the cam lock system. Decks manufactured without the cam lock system require three 4-1/2" Snap Pins per leg. Contact manufacturer for details.

## MULTI-STAGE CALCULATING CHARTS

36' Wide x \_\_\_\_\_

Stage Size W x L x H	0106-039-6, 4'x4' Deck		1-1/2" Legs						1-3/4" Extensions						# of Legs Required				
	0065-0289-012, 12"	0065-0289-024, 24"	0065-0289-030, 30"	0065-0289-036, 36"	0065-0299-024, 24"	0065-0299-030, 30"	0065-0299-036, 36"	0030-086, 48"	0022-26-04, Base Pad	0022-26-08, 4' Guardrail	0106-016, 8' Guardrail	0069-0026, Guardrail Post	0010-21, 4' Diagonal Bracket	0106-158, 4'-6" Diagonal Brace	0106-156, 2-3' Stair Pkg.	0068-292, 3'-4' Stair Pkg.	0106-214-4 or 0106-223-4 Guard Rail Panel		
36 x 36 x	81	100							100	6	24	16	4	24				200	27
36 x 40 x	90	110							110	4	26	16	4	26				220	28
36 x 44 x	99	120							120	6	26	17	4	30				240	29
36 x 48 x	108	130							130	4	28	17	4	32				260	30
36 x 52 x	117	140							140	6	28	18	4	36				280	31
36 x 56 x	126	150							150	4	30	18	4	38				300	32
36 x 60 x	135	160							160	6	30	19	4	42				320	33

NOTE: The components contained in this chart are designed to be used with Multi-Stage Decks that feature the cam lock system. Decks manufactured without the cam lock system require three 4-1/2" Snap Pins per leg. Contact manufacturer for details.

## MULTI-STAGE CALCULATING CHARTS

40' Wide x \_\_\_\_\_

Stage Size W x L x H	0106-039-6, 4'x4' Deck		1-1/2' Legs						1-3/4" Extensions						# of Legs Required						
	100	121	121	132	143	154	165	176	121	132	143	154	165	176	2	30	16	4	28	242	30
40 x 40 x	100	121							121	2	30	16	4	28						242	30
40 x 44 x	110	132							132	2	30	17	4	33						264	31
40 x 48 x	120	143							143	2	32	17	4	40						286	32
40 x 52 x	130	154							154	2	32	18	4	45						308	33
40 x 56 x	140	165							165	2	34	18	4	52						330	34
40 x 60 x	150	176							176	2	34	19	4	57						352	35

NOTE: The components contained in this chart are designed to be used with Multi-Stage Decks that feature the cam lock system. Decks manufactured without the cam lock system require three 4-1/2" Snap Pins per leg. Contact manufacturer for details.

## MULTI-STAGE CALCULATING CHARTS

44' Wide x \_\_\_\_\_

Stage Size W x L x H	0106-039-6, 4'x4' Deck		1-1/2" Legs						1-3/4" Extensions										
	# of Legs Required	0065-0289-012, 12"	0065-0289-024, 24"	0065-0289-030, 30"	0065-0289-036, 36"	0065-0299-024, 24"	0065-0299-030, 30"	0065-0299-036, 36"	0030-086, 48"	0022-26-04, Base Pad	0022-26-08, 4'Guardrail	0106-016, 8'Guardrail	0069-0026, Guardrail Post	0010-21, 4' Diagonal Bracket	0106-158, 4'-6" Diagonal Brace	0106-156, 2-3' Stair Pkg.	0106-157, 3'-4' Stair Pkg.	0068-292, 2-3/8" Snap Pin	0106-214-4 or 0106-223-4 Guard Rail Panel
44 x 44 x	121	144								144	6	30	10	4	38			288	33
44 x 48 x	132	156								156	4	32	10	4	46			312	34
44 x 52 x	143	168								168	6	32	20	4	54			336	35
44 x 56 x	154	180								180	4	33	20	4	62			360	36
44 x 60 x	165	192								192	6	33	21	4	70			384	37

NOTE: The components contained in this chart are designed to be used with Multi-Stage Decks that feature the cam lock system. Decks manufactured without the cam lock system require three 4-1/2" Snap Pins per leg. Contact manufacturer for details.

### MULTI-STAGE CALCULATING CHARTS

48' Wide x \_\_\_\_\_

Stage Size W x L x H	# of Legs Required		1-1/2" Legs						1-3/4" Extensions						Guard Rail Panel				
	0106-039-6, 4'x4' Deck	0065-0289-012, 12"	0065-0289-024, 24"	0065-0289-030, 30"	0065-0289-036, 36"	0065-0299-024, 24"	0065-0299-030, 30"	0065-0299-036, 36"	0030-086, Base Pad	0022-26-04, 4'Guardrail	0022-26-08, 8'Guardrail	0106-016, Guardrail Post	0069-0026, Corner Bracket	0010-21, 4' Diagonal Brace	0106-158, 4'-6" Stair Pkg.	0106-156, 2'-3" Stair Pkg.	0068-292, 3'-4" Stair Pkg.	0106-214-4 or 0106-223-4	
48 x 48 x	144	169							169	2	36	19	4	56				338	36
48 x 52 x	182	182							182	2	36	20	4	56				364	37
48 x 56 x	195	195							195	2	38	20	4	66				390	38
48 x 60 x	208	208							208	2	35	21	4	76				416	39

NOTE: The components contained in this chart are designed to be used with Multi-Stage Decks that feature the cam lock system. Decks manufactured without the cam lock system require three 4-1/2" Snap Pins per leg. Contact manufacturer for details.

## MULTI-STAGE CALCULATING CHARTS

52' Wide x \_\_\_\_\_

Stage Size W x L x H	0106-039-6, 4"x4' Deck		# of Legs Required						1-1/2" Legs						1-3/4" Extensions					
	0065-0289-012, 12"	0065-0289-024, 24"	0065-0289-030, 30"	0065-0289-036, 36"	0065-0299-024, 24"	0065-0299-030, 30"	0065-0299-036, 36"	0030-086, Base Pad	0022-26-04, 4' Guardrail	0022-26-08, 8' Guardrail	0106-016, Guardrail Post	0069-0026, Corner Bracket	0010-21, 4' Diagonal Brace	0106-158, 4'-6" Stair Pkg.	0106-156, 2'-3" Stair Pkg.	0068-292, 3'-4" Stair Pkg.	0106-214-4 or 0106-223-4 Guard Rail Panel			
52 x 52 x	169	196							196	6	36	22	4	56				392	39	
52 x 56 x	182	210							210	4	38	22	4	66				420	40	
52 x 60 x	195	224							224	6	38	23	4	76				448	41	

NOTE: The components contained in this chart are designed to be used with Multi-Stage Decks that feature the cam lock system. Decks manufactured without the cam lock system require three 4-1/2" Snap Pins per leg. Contact manufacturer for details.

# MULTI-STAGE CALCULATING CHARTS

56' Wide x \_\_\_\_\_

Stage Size W x L x H	1-1/2" Legs										1-3/4" Extensions												
	0106-039-6, 4"x4' Deck	# of Legs Required		0065-0289-012, 12"	0065-0289-024, 24"	0065-0289-030, 30"	0065-0289-036, 36"	0065-0299-024, 24"	0065-0299-030, 30"	0065-0299-036, 36"	0030-086, Base Pad	0022-26-04, 4' Guardrail	0022-26-08, 8' Guardrail	0106-016, Guardrail Post	0069-0026, Corner Bracket	0010-21, 4' Diagonal Brace	0106-158, 4'-6" Stair Pkg.	0106-156, 2'-3" Stair Pkg.	0068-292, 3'-4" Stair Pkg.	0106-214-4 or 0106-223-4 Guard Rail Panel			
56 x 56 x	196	225									225	2	42	22	4	66						450	42
56 x 60 x	210	240									240	2	42	23	4	76						480	43

NOTE: The components contained in this chart are designed to be used with Multi-Stage Decks that feature the cam lock system. Decks manufactured without the cam lock system require three 4-1/2" Snap Pins per leg. Contact manufacturer for details.

## MULTI-STAGE CALCULATING CHARTS

60' Wide x \_\_\_\_\_

Stage Size W x L x H	0106-039-6, 4"x4' Deck	# of Legs Required				1-1/2" Legs				1-3/4" Extensions				0069-0026, Corner Bracket					
		0065-0289-012, 12"	0065-0289-024, 24"	0065-0289-030, 30"	0065-0289-036, 36"	0065-0299-024, 24"	0065-0299-030, 30"	0065-0299-036, 36"	0030-086, 48"	0022-26-04, 4' Guardrail	0022-26-08, 8' Guardrail	0106-016, 4' Guardrail Post	0106-158, 4'-6" Diagonal Brace	0106-156, 2'-3" Stair Pkg.	0106-157, 3'-4" Stair Pkg.	0068-292, 2-3/8" Snap Pin	0106-214-4 or 0106-223-4 Guard Rail Panel		
60 x 60 x	225	256								256	6	42	25	4	78			512	46

NOTE: The components contained in this chart are designed to be used with Multi-Stage Decks that feature the cam lock system. Decks manufactured without the cam lock system require three 4-1/2" Snap Pins per leg. Contact manufacturer for details.



## MULTI-STAGE CALCULATING CHARTS FOR RAMPS \*

<b>4'W Multi-Stage Ramp</b> Listed by Leg Height	1-1/2" Legs														1-3/4" Extensions							
	0106-064-5 5° Angle Ramp	0106-236-5 Transitional Deck	0106-102-5 Starter Ramp	No. of Legs Required	0065-0298-004 - 4"	0065-0298-008 - 8"	0065-0298-012 - 12"	0065-0298-016 - 16"	0065-0298-020 - 20"	0065-0298-024 - 24"	0065-0299-018 - 18"	0065-0299-024 - 24"	0065-0299-030 - 30"	0030-086 Base Feet	0106-234-1 G. Rail Panel Ramp L	0106-234-2 G. Rail Panel Ramp R	0106-214-4 G. Rail Panel	0106-237-1 Transitional & Starter G. Rail L	0106-237-2 Transitional & Starter G. Rail R	4' Diagonal Brace	2-3/8" Snap Pins	0106-039-5 4' x 4' Black Textured Deck
12" Leg Ht.	2	1	1	4	2	2								4	2	2		1	1		8	
16" Leg Ht.	3	1	1	6	2	2	2							6	3	3		1	1		12	
20" Leg Ht.	4	1	1	8	2	2	2	2						8	4	4		1	1		16	
24" Leg Ht.	5	1	1	10	2	2	2	2	2					10	5	5		1	1	2	20	
28" Leg Ht.	6	1	1	12	2	2	2	2	2	2				12	6	6		1	1	2	24	
** 32" Leg Ht.	7	1	1	22	4	2	2	6	2	4	2			18	7	7	4	1	1	2	38	2
** 36" Leg Ht.	8	1	1	28	6	2	2	6	2	6	4			20	8	8	4	1	1	4	44	2
** 40" Leg Ht.	9	1	1	38	8	2	2	2	2	12	4	6		22	9	9	4	1	1	6	54	2
** 44" Leg Ht.	10	1	1	44	10	2	2	2	2	14	4	6	2	24	10	10	4	1	1	6	60	2
** 48" Leg Ht.	11	1	1	50	12	2	2	2	2	16	4	6	4	26	11	11	4	1	1	12	66	2
** 52" Leg Ht.	12	1	1	52	14	2	2	2	2	14	4	6	4	28	12	12	4	1	1	12	74	2
** 56" Leg Ht.	13	1	1	58	16	2	2	2	2	16	4	6	4	30	13	13	4	1	1	12	78	2

\* The Multi-Stage Access Ramp will not meet all ADA requirements for the physically challenged.

\*\* Includes a 4' x 8' level platform rest near the midpoint at the ramp length.