

Bridge Calculator Tutorial

Select Load Type

Enter measurements
(Single axles are entered as 0)

Select Add Group to
add additional axle groups

Enter Axle Groups

* **Axle Group** - 8ft separation between 2 axles
 * **Axle count** - Number of axles in the group
 * **Requested Weight** - Weight requested for axle group
 * **Group Distance** - Distance to next axle (enter 0 on steer axle, unless you have 2 steer axles)
 * **Axle Width** - How wide is the axle
 * **Distance to next group** - Measurement from group to group (steering to first drive axle, enter 0 on last group)
 * **8 Tires per axle** - Trunnion/Axle Yes/No - check if yes

Divisible Load Non-Divisible Load

Axle Group	Axle Count	Requested Weight	Group Distance Ft / Inch	Axle Width	Dist to Next Group Ft / Inch	8 Tires Per Axle	Delete Group
1	<input type="text"/>	<input type="text"/>	<input type="text"/> / <input type="text"/> 0 ▾	8 ▾	<input type="text"/> / <input type="text"/> 0 ▾	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> X
2	<input type="text"/>	<input type="text"/>	<input type="text"/> / <input type="text"/> 0 ▾	8 ▾	<input type="text"/> / <input type="text"/> 0 ▾	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> X

Total Axle Count: 0 Total Requested Weight: 0 lbs. Total Distances: 0' 0"

Add Group
Validate
Cancel

Add Group

Validate

Cancel

Select the Validate Button
When all groups are entered

If the diagram is GREEN, validation
passes and the load bridges legally

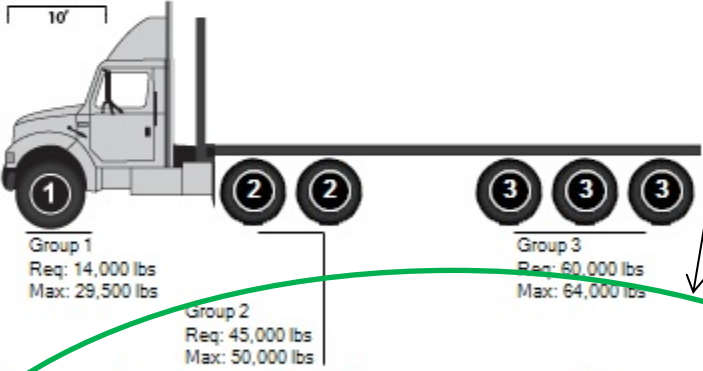
Enter Axle Groups

* **Axle Group** - 8ft separation between 2 axles
 * **Axle count** - Number of axles in the group
 * **Requested Weight** - Weight requested for axle group
 * **Group Distance** - Distance to next axle (enter 0 on steer axle, unless you have 2 steer axles)
 * **Axle Width** - How wide is the axle
 * **Distance to next group** - Measurement from group to group (steering to first drive axle, enter 0 on last group)
 * **8 Tires per axle** - Trunnion Axle Yes/No - check if yes

Divisible Load Non-Divisible Load

Axle Group	Axle Count	Requested Weight	Group Distance Ft / Inch	Axle Width	Dist to Next Group Ft / Inch	8 Tires Per Axle	Delete Group
1	1	14000	0 / 0	8	14 / 0	<input type="checkbox"/> Yes	X
2	2	45000	4 / 6	8	34 / 0	<input type="checkbox"/> Yes	X
3	3	60000	10 / 0	8	0 / 0	<input type="checkbox"/> Yes	X

Total Axle Count: 6 Total Requested Weight: 119,000 lbs. Total Distances: 62' 6"



	Group 1	Group 2	Group 3
Group 1	Requested: 14,000 Allowed: 29,500	Requested: 59,000 Allowed: 74,000	Requested: 119,000 Allowed: 135,000
Group 2		Requested: 45,000 Allowed: 50,000	Requested: 105,000 Allowed: 115,500
Group 3			Requested: 60,000 Allowed: 64,000

Axle Group Bridge Validation Passed.

If the diagram is RED, validation fails and the load needs to be adjusted

Enter Axle Groups

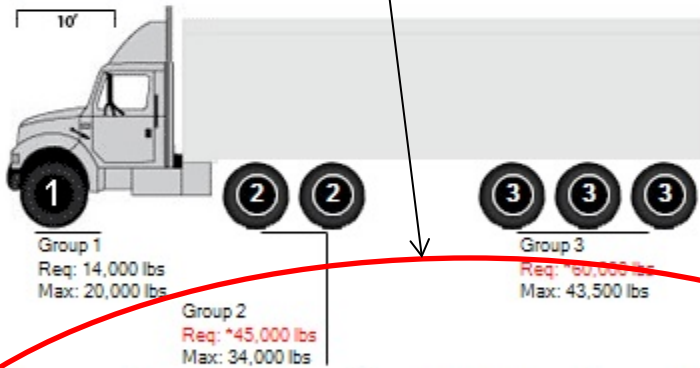
- * **Axle Group** - 8ft separation between 2 axles
- * **Axle count** - Number of axles in the group
- * **Requested Weight** - Weight requested for axle group
- * **Group Distance** - Distance to next axle (enter 0 on steer axle, unless you have 2 steer axles)
- * **Axle Width** - How wide is the axle
- * **Distance to next group** - Measurement from group to group (steering to first drive axle, enter 0 on last group)
- * **8 Tires per axle** - Trunnion Axle Yes/No - check if yes

Divisible Load Non-Divisible Load

Axle Group	Axle Count	Requested Weight	Group Distance Ft / Inch	Axle Width	Dist to Next Group Ft / Inch	8 Tires Per Axle	Delete Group
1	1	14000	0 / 0 ▼	8 ▼	14 / 0 ▼	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/>
2	2	45000	4 / 6 ▼	8 ▼	34 / 0 ▼	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/>
3	3	60000	10 / 0 ▼	8 ▼	0 / 0 ▼	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/>

Total Axle Count: 6 Total Requested Weight: 119,000 lbs. Total Distances: 62' 6"

Add Group **Validate** **Cancel**



	Group 1	Group 2	Group 3
Group 1	Requested: 14,000 Allowed: 20,000	Requested: 59,000 Allowed: 50,000	Requested: 119,000 Allowed: 92,000
Group 2		Requested: 45,000 Allowed: 34,000	Requested: 105,000 Allowed: 78,500
Group 3			Requested: 60,000 Allowed: 43,500

Axle Group Bridge Validation Failed!
(Please correct your weights to be actual or redistribute the weight in your load.)