

HALE

TRAILER
BRAKE & WHEEL

HALE TRAILER

76 Cooper Road

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	MANUFACTURER RATING	FEDERAL LEGAL AXLE RATING	TIRE TYPE	TIRE SIZE
Peterbilt 389 Tri Axle Steer Axle #1	20,000 lbs.	12,000 lbs.	Michelin X One Line Energy Super Single 10,200 lbs. Max. Load # of Tires _____ 2	24.5"
Peterbilt 389 Tri Axle Lift Steerable Axle #2	20,000 lbs.	12,000 lbs.	Michelin X One Line Energy Super Single 10,200 lbs. Max. Load # of Tires _____ 2	24.5"
Peterbilt 389 Tri Axle Drive Front Axle #3	23,000 lbs.	17,000 lbs.	Michelin X Multi D 295 Duals 7,390 lbs. Max. Load # of Tires _____ 4	24.5"
Peterbilt 389 Tri Axle Drive Rear Axle #4	23,000 lbs.	17,000 lbs.	Michelin X Multi D 295 Duals 7,390 lbs. Max. Load # of Tires _____ 4	24.5"
Fontaine Renegade Mini Deck #5 Dual Axle	25,000 lbs.	17,000 lbs.	Michelin X Multi Z - 275 Duals 6,940 lbs. Max. Load # of Tires _____ 4	22.5"
Fontaine Renegade Mini Deck #6 Dual Axle	25,000 lbs.	17,000 lbs.	Michelin X Multi Z - 275 Duals 6,940 lbs. Max. Load # of Tires _____ 4	22.5"
Fontaine Renegade Mini Deck #7 Flip Axle	25,000 lbs.	17,000 lbs.	Michelin X Multi Z - 275 Duals 6,940 lbs. Max. Load # of Tires _____ 4	22.5"
TOTAL WEIGHT	161,000 lbs. Manufacturer Rating	109,000 lbs. Federal Rating	# of Tires _____ 24	

	AXLE SPACING (Feet)	AXLE CLASSIFICATION (DOT Requirements)	FEDERAL BRIDGE WEIGHT FORMULA	NORTH CAROLINA STATE POLICE COMMERCIAL DIVISION PERMIT REGULATIONS
Peterbilt 389 Tri Axle Steer Axle #1	N/a	Single	N/a	20,000 lbs. Single - Steer
Peterbilt 389 Tri Axle Lift Steerable Axle #2	22.5'	1st of Tridem	N/a	20,000 lbs. (Tridem - 60,000 lbs.) 1st of 3
Peterbilt 389 Tri Axle Drive Front Axle #3	4.5'	2nd of Tridem	61,500 lbs. 29' Spacing (USDOT 4-AXLES)	20,000 lbs. (Tridem - 60,000 lbs.) 2nd of 3
Peterbilt 389 Tri Axle Drive Rear Axle #4	4.5'	3rd of Tridem	N/a	20,000 lbs. (Tridem - 60,000 lbs.) 3rd of 3
Fontaine Renegade Mini Deck #5 Tandem Axle	38.5' [14' from front]	1st of Tridem	N/a	20,000 lbs. (1st of 3 Tridem) 60,000 lbs.
Fontaine Renegade Mini Deck #6 Tandem Axle	4.5' [21.5' from front]	2nd of Tridem	N/a	20,000 lbs. (2nd of 3 Tridem) 60,000 lbs.
Fontaine Renegade Mini Deck #7 Tandem Axle	4.5' [28.5' from front]	3rd of Tridem	67,500 lbs. 38.5' Spacing (USDOT 3-AXLES)	20,000 lbs. (3rd of 3 Tridem) 60,000 lbs.
TOTALS	79' Spacing Steer Tire to Trailer Flip Axle	7-Axles	129,000 lbs. (USDOT 7-AXLES) 67.5' Spacing	140,000 lbs. 7-Axles NCDOT Authority

TRACTOR (GVWR)	TRAILER (GVWR)	GROSS COMBINATION VEHICLE WEIGHT RATING	TRAILER SHIPMENT WEIGHT CAPACITY	TRACTOR & TRAILER MANUFACTURER WEIGHT CAPACITY
61,500 lbs. GVWR	80,000 lbs. GVWR	141,500 lbs. GCVWR	94,225 lbs.	120,000 lbs Manufacturing Weight Rating
25,000 lbs. Tare Weight	22,275 lbs. Tare Weight	47,275 lbs. Tare Weight		72,725 lbs. Manufacturing Shipment Weight Rating

	BELLY SECTION	REAR DECK SECTION	EQUIPMENT SPECS
HEIGHT	12'6"	120"	Cat 725 Articulated Truck Tare Weight:.....49,075 lbs. Length:.....32.5' Width:.....9.4' Height:.....11.3" Wheelbase:.....15.3'
WIDTH	8'6"	8'6"	Cat PM 313 Cold Planner Tare Weight:.....46,839 lbs. Length:.....30.6' Width:.....8.4' Height:.....9.8' Tracks Length:.....19.4'
WEIGHT	72,725 lbs	0.0 lbs.	Cat 14M Motor Grader Tare Weight:.....65,998 lbs. Length:.....30.9' Width:.....9.2' Height:.....11.5' Wheelbase:.....21.5'
WEIGHT (Deck)	N/a	23,139.2 lbs. (14'L x 8.5'W x 42"H) Legal Height - 10'	Cat D3 Dozer Tare Weight:.....20,640 lbs. Length:.....12' Width:.....5.9' Height:.....5.6' Tracks Length:.....5.8'

2024 FONTAINE RENEGADE N12 MINI DECK TANDEM w/THIRD FLIP AXLE 40-TON LOWBED TRAILER

1. **TOTAL SPECIFICATIONS (Gross Vehicle Weight Rating)**
2. **Gooseneck Kingpin to Belly of Trailer (Swing Radius):...84" (7')(w/ Flip Neck -120" (10')**
3. **Flip Neck Length:.....36"**
4. **Gooseneck Length:.....134" (11.1')**
5. **Gooseneck Width:.....48" (4')**
6. **Belly Deck Length:.....360" (30')**
7. **Belly Deck Width:.....102" (8'6")**
8. **Belly Deck Ground Clearance:.....4" (0.33')**
9. **Belly Deck Height:.....12" (1')**
10. **Rear Deck Height:42" (3.5')**
11. **Rear Deck Length (w/Flip Axle Up):.....110" (9'2")**
12. **Rear Deck Length (w/Flip Axle Down):.....164" (13'6")**
13. **Loaded 5th Wheel Height:.....52" (4.3')**
14. **Mini Deck Trailer Tare Weight:.....22,275 lbs. (11.1 Tons)**
15. **Total Length with Flip Axle & Flip Neck up:.....606" (50.3')**
16. **Total Length with Flip Axle & Flip Neck Down:....694" (57.8')**
17. **Gooseneck Ride Height Adjustments:7-Ride Height Adjustments**
 - a. **1st Ride Height Adjustments:.....6.8"**
 - b. **2nd Ride Height Adjustments:.....13.6"**
 - c. **3rd Ride Height Adjustments:.....20.4"**
 - d. **4th Ride Height Adjustments:.....27.2"**
 - e. **5th Ride Height Adjustments:....34"**
 - f. **6th Ride Height Adjustments:....40.8"**
 - g. **7th Ride Height Adjustments:....47.6"**
 - i. **Max. Height at Front of Belly Deck:.....51.6" (4.3')**
 - ii. **Max. Height at Center of Belly Deck (15' from Front):....28" (2.3')**
 - iii. **Max. Height at Rear of Belly Deck (6" from Rear):.....4.75" (0.39')**
 - iv. **Max. Degree Incline of Ride Height:.....12 Degrees**
 - v. **Max. Railroad Crossing or Crown in the Road Capability:....1" per 1'
Length**
 - vi. **Max. Length Wood for Ramp:.....4" x 10" x 20'**
 - vii. **# of Ramps Required:.....4 Total**
 - viii. **Ramps Angle from 0" to 4" Height:.....6'**
 - ix. **Ramps Approach Angle:.....12 Degrees**
 - x. **Max. Railroad Crossing or Crown with Wood Ramps:.....7.5" per 1'
Length**
 - xi. **Total Approach Angle of Gooseneck with Wood Ramps:.....52 Degrees
with Ramps Under Drive Tires**

18. Wheelbase (w/Flip Neck - Kingpin to Center Axle):.....576" (48')
19. Wheelbase (Kingpin to Center Axle).....540" (45')
20. Trailer GVWR (6-Axles w/Flip Neck Down).....83,000 lbs. (41.5-Tons)
21. Trailer GVWR (6-Axles w/Flip Neck Up).....81,000 lbs. (40.5-Tons)
22. Tare Weight w/Peterbilt 389 Tri Axle (Weight Preferred).....47,275 lbs. (23.6-Tons)
23. Belly Section Specifications.....30' Length x 8.5' Width x 12" Height
- a. Max. Shipment Weight Allowed With a Permit:.....55,725 lbs.
 - i. Max. Permit Shipment Allowed on Belly Deck w/Shipment on Rear Deck:
 - 38,430 lbs. (**Rear Deck 17,293.5 lbs.**)
 - b. Max. Shipment Weight Allowed Without a Permit:.....32,725 lbs.
 - i. Max. Legal Shipment Allowed on Belly Deck w/Shipment on Rear Deck:
 -22,566 lbs. (**Rear Deck 10,154.7 lbs.**)
 - c. Max. Permit Shipment Cubic Inches of Space on Belly Deck of Trailer With (15' Height) w/Permit:..6,168,960 Cu. Inches (**3,570 Cu. Feet**)
 - i. Max Permit Shipment Cubic Inches of Space on Rear Deck of Trailer With (15' Height):.....2,378,844 Cu. Inches (**1,368.5 Cu. Feet**)
 - d. Max. Legal Shipment Cubic Inches Space on Belly Deck of Trailer (13'6" Height):
 - 5,508,000 Cu. Inches (**3,187.5 Cu. Feet**)
 - i. Max. Legal Shipment Cubic Inches of Space on Rear Deck of Trailer with (13'6" Height).....2,068,560 Cu. Inches (**1,190 Cu. Feet**)
 - e. Max. Shipment Per Cubic Inch (w/Permit 100,000 lbs.)....0.006 lbs. Per Cubic Inch (**Belly & Top Deck**)
 - i. Max Shipment Per Cubic Inch w/Permit (**Belly Deck**) 100,000 lbs.:
 -0.009 lbs. Per Cubic Inch
 - f. Max. Shipment Weight Per Cubic Inch (Legal 80,000 lbs.)....0.004 lbs. Per Square Inch (**Belly & Top Deck**)
 - i. Max. Shipment Per Cubic Inch w/Legal 80,000 lbs. (**Belly Deck**):.....0.005 lbs. Per Cubic Inch
 - g. Max. Permit Shipment Weight Per Square Inch (Length 528" x Width 102") Permit:..... 1.03 lbs. Per Square Inch (**Belly & Top Deck**)
 - i. Max. Permit Shipment Weight Per Square Inch (Length 360" x Width 102") Permit:.....1.51 Per Square Inch (**Belly Deck**)
 - h. Max. Legal Shipment Weight Per Square Inch (Length 528" x Width 102") Legal:
 -0.60 lbs. Per Square Inch (**Belly & Top Deck**)
 - i. Max. Legal Shipment Weight Per Square Inch (Length 360" x Width 102") Legal:.....0.89 lbs. Per Square Inch (**Belly Deck**)
 - i. Max. Shipment Height Per Inch (12.5' Max. Height) Permit:371.5 lbs. Per Inch
 - j. Max. Shipment Height Per Foot (12.5' Max. Height) Legal:.....218.1 lbs. Per Foot
 - k. Max. Amount of Pallets Capacity (Belly Deck & Top Deck).....20 Pallets
 - i. Permit Weight (55,725 lbs.) Max amount of weight per pallet:..2,786 lbs.
 - ii. Legal Weight (32,725 lbs.) Max amount of weight per pallet:....1,636.2 lbs.
 - l. Max. Amount of Aircraft Transport Lift Vans (87"H x 87"L x 48"W):.....11 Lift Vans

