

Over-the-Road Steel Deck Product Matrix

Model	Profile	Width	Length	CLC	Capacity	Cell Type	Duty Cycle	Finish	NTEP COC #
7561	14.5"	9'9.5", 9'11", 10', or 11'	30' to 160'	60,000 lb	200,000 lb*	22.5t POWERCELL	Commercial	Standard	93-108
7562	14.5"	9'9.5", 9'11", 10', or 11'	30' to 160'	80,000 lb	200,000 lb*	45t MTX	Cycle	Premium	93-108

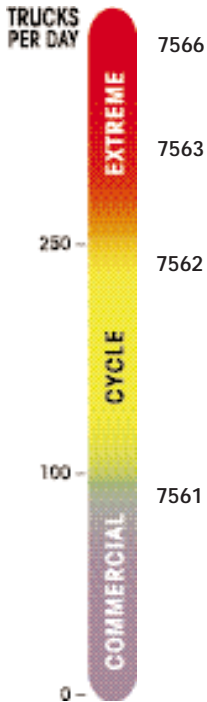
*Scales ≤20' will have a capacity of 120,000 lb

Off-Road Steel Deck Product Matrix

Model	Profile	Width	Length	CLC	Capacity	Cell Type	Duty Cycle	Finish	NTEP COC #
7563	16.5"	9'9.5", 9'11", 10', or 11'	10' to 20'	80,000 lb	120,000 lb	45t MTX	Extreme	Premium	96-092
7563	16.5"	9'9.5", 9'11", 10', or 11'	30' to 160'	80,000 lb	200,000 lb	45t MTX	Extreme	Premium	96-092
7566	29.6"	11'10"	10' to 20'	130,000 lb	190,000 lb	45t MTX	Extreme	Premium	Pending
7566	29.6"	11'10"	30' to 120'	130,000 lb	300,000 lb	45t MTX	Extreme	Premium	Pending
7563	16.5"	14"	30' to 90'	160,000 lb	400,000 lb	45t MTX	Extreme	Premium	96-092
7566	29.6"	19'9"***	30' to 90'	250,000 lb	500,000 lb	45t MTX	Extreme	Premium	Pending

*Width can be increased by increasing gap between the scales. Nominal gap is 1". Scale has been designed to weigh either a Cat 773 or Euclid R50 haul truck.

**Width can be increased by increasing gap between the scales. Nominal gap is 1". Scale has been designed to weigh either a Cat 777 or Euclid R90 haul truck.



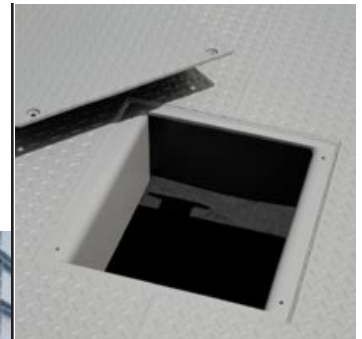
Steel Deck Product Options

Orthotropic steel deck scales are available as axle, full length, or full-frame portable scales. Also available are service manholes for full pit access and side rails to help guide trucks. Existing pits can easily be accommodated by using the 9'-9 1/2" or 9'-11" widths. Custom lengths are also available.

For questions on orthotropic steel deck truck scales and technical matters, call your authorized METTLER TOLEDO distributor. Or visit our website: www.mt.com.



Side Rails...to help guide vehicles on the platform

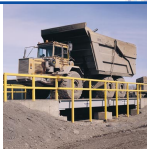
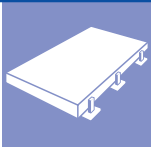


Manholes...for scales installed in a pit

	TEL	FAX		TEL	FAX	
METTLER TOLEDO	Australia (61) 3 9644 5700	(61) 3 9645 3935	Korea (82-2) 518-2004	(82-2) 518-0813	Internet	
USA & Canada	Austria (43-1) 604 1980	(43-1) 604 2880	Malaysia (60-3) 703 2773	(60-3) 703 8773	www.mt.com	
1900 Polaris Parkway	Belgium (32-2) 334 0211	(32-2) 378 1665	Mexico (52-5) 547 5700	(52-5) 541 2228		
Columbus, Ohio 43240	Brazil (55-11) 421 5737	(55-11) 7295-1692	Netherlands (31-344) 638363	(31-344) 638390		
TEL (800) 786-0038	China (Industrial) (86-519) 6642040	(86-519) 6641991	Norway (47-22) 30 44 90	(47-22) 32 70 02	Specifications subject to change without notice.	
(614) 438-4511	China (Systems) (86-21) 6485-0435	(86-21) 6485-3351	Poland (48-22) 651 9232	(48-22) 42 20 01	© 1999 Mettler-Toledo, Inc.	
FAX (614) 438-4900	Croatia (385-1) 660 3009	(385-1) 660 2189*	Russia (7-095) 921 9211	(7-095) 921 6353	METTLER TOLEDO® and MTX® are trademarks of Mettler-Toledo, Inc.	
Headquarters	Czech Republic (420-2) 254962	(420-2) 24247583	Singapore (65) 778 6779	(65) 778 6639	Printed on recycled paper and is recyclable.	
8606 Greifensee	Denmark (45-43) 27 08 00	(45-43) 27 08 28	Slovak Republic (421-7) 525 2170	(421-7) 525 2173	Printed in USA.	
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FAX (41-1) 944 30 60	Hungary (36) 1257 7030	(36) 1256 2175	Sweden (46-8) 702 50 00	(46-8) 642 45 62	TRUCK SCALES	
	India (91-22) 857-0808	(91-22) 857-5071	Switzerland (41-1) 944 45 45	(41-1) 944 45 10	199-TR03185.0E	
	Italy (39-2) 333321	(39-2) 356-2973	Taiwan (886-2) 579-5955	(886-2) 579-5977		
	Japan (81-6) 949-5901	(81-6) 949-5944	Thailand (66-2) 719 6480	(66-2) 719 6479		
	Kazakhstan (7-3272) 50 63 69	(7-3272) 60 88 35	United Kingdom (44-116) 235 7070	(44-116) 236 6399		

*Ask for FAX.

Weighbridge



TRUCKMATE®

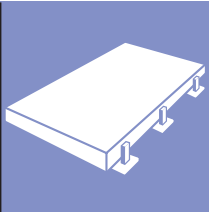
Orthotropic Steel Deck

Truck Scale Overview

Long Life with Orthotropic Steel Deck Truck Scales

METTLER TOLEDO

Built to Perform Better for Longer with Less Downtime



The high performance characteristics of METTLER TOLEDO's family of over-the-road, off-road and portable steel deck truck scales feature an orthotropic deck design. (The Golden Gate Bridge uses similar orthotropic rib panels.)

Weighbridge

These steel deck truck scales are designed to handle a variety of fully loaded trucks. The orthotropic structure provides high torsional rigidity and is constructed with advanced manufacturing techniques. Models are available to match individual customer use patterns (cycles per day, size of vehicles, etc.). They're also ideal for those who need a scale up and running quickly.

High Torsional Rigidity

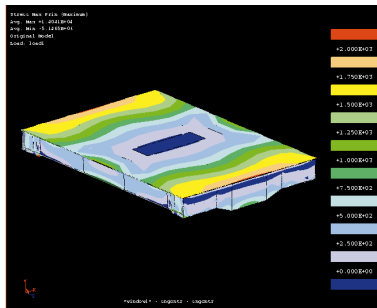
The orthotropic design provides better distribution of concentrated loads than open rib deck structures. An orthotropic deck easily handles torsional forces generated by a fully loaded truck that moves laterally and stops off center, typical of a truck that moves onto a scale.

It provides high torsional rigidity with much greater horizontal shear transfer than typical truck scales. There are no welds along the bottom side of the ribs where they would be more susceptible to fatigue...unlike typical designs which sandwich beams between top and bottom plates.

Engineering

Each model has been designed to meet its intended application. Since all the steel components are manufactured in-house, there is an infinite array of possible sizes to insure that we have produced the most efficient structure.

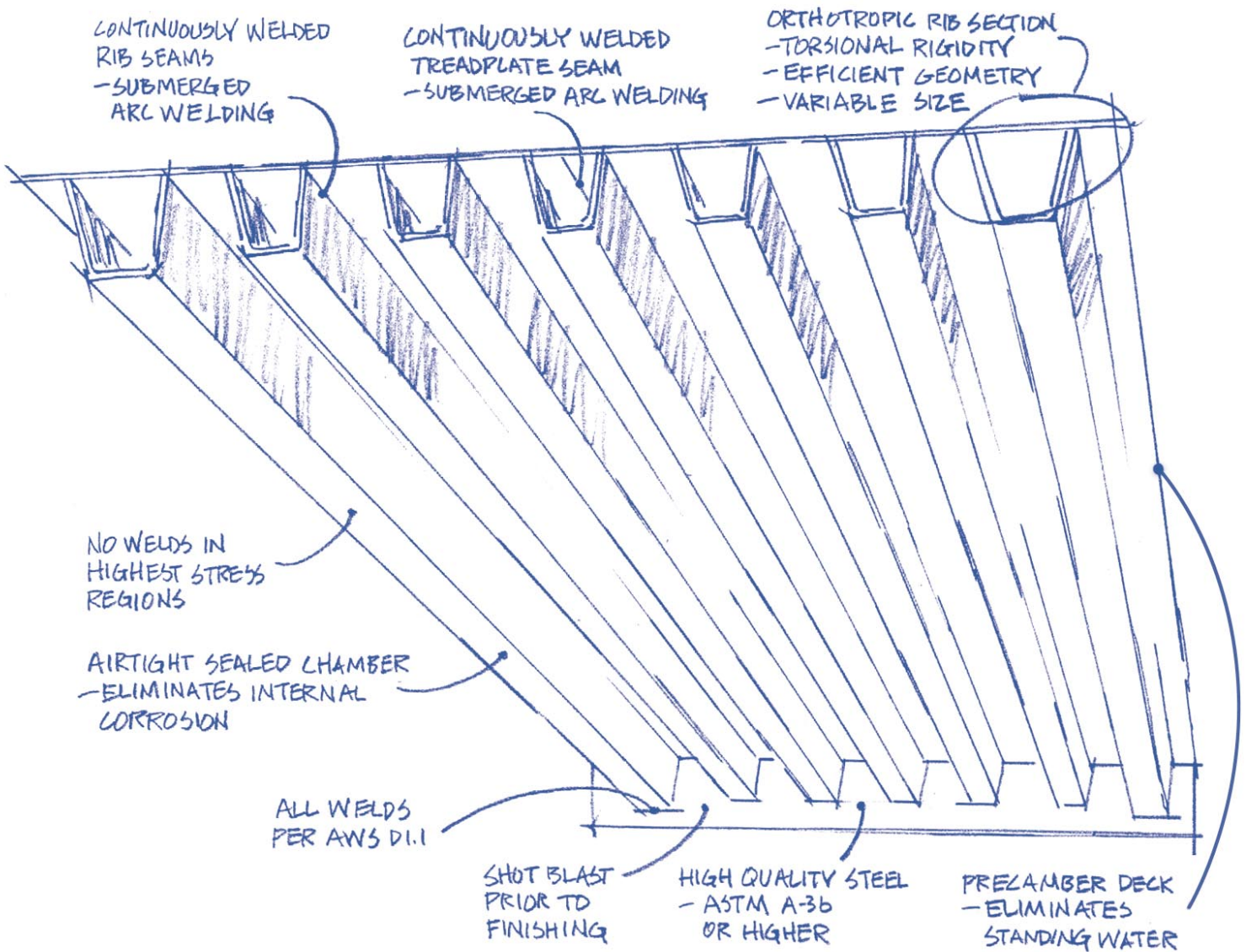
Each design undergoes three analysis techniques. The first step is theoretical evaluation of the structure through calculations. The design is simultaneously modeled using Finite Element Analysis to simulate stress levels in a real world application. Additionally, full size modules are tested in our Tandem Axle Load Simulator where they are repeatedly loaded to maximum tandem load capacity to simulate years of use at above-average traffic rates and loads.



Finite element analysis simulates real-world applications



Tandem axle load simulator empirically validates the design



Automated submerged arc welder provides continuously welded joints



Module positioner allows all welds to be placed in the flat position

Construction

Each orthotropic module is constructed from steel plates that are sheared; then cold formed in a 600 ton break press to form the trapezoidal rib sections. The ribs are then continuously welded to the deck plate and the end plates, forming seven airtight chambers. A torsionally stiff closed rib deck results. The closed chambers formed by the top plate, end plates, and orthotropic ribs are pressure tested and sealed air tight. This virtually eliminates the possibility of rust from within. All exposed surfaces are shot-blasted and finished.

Approvals

TRUCKMATE scales meet or exceed requirements in accordance with t

he National Institute of Standards and Technology (NIST) Handbook 44. The Certificate of Conformance (CoC) is identified in the product matrix. These scales have also received Factory Mutual System approval for use in hazardous areas when used with other approved METTLER TOLEDO hazardous area devices.

ISO 9001

These products were developed, produced and tested in a METTLER TOLEDO facility that has been audited and registered according to international (ISO 9001) quality standards.

