

**South Coast Air Quality Management District**  
**Rule 463 – Organic Liquid Storage**  
**List of Approved Floating Roof Tank Seals**

Manufacturer	Type	Seal Name	Primary/ Secondary	Category	EFR/IFR	Welded/Riveted Tank Shell	Approval Date
Allentech	Liq. Mounted Mechanical Shoe	Primary Shoe Seal	Primary	A	IFR	Welded/Riveted	7/25/2012
Allentech	Multiple Wiper	Secondary Shoe Seal	Secondary	A	IFR	Welded/Riveted	7/25/2012
Baillie Tank Equipment (BTE)	Liq. Mounted Mechanical Shoe	Pantograph Shoe Seal	Primary	A	EFR/IFR	Welded/Riveted	5/10/2012
Baillie Tank Equipment (BTE)	Liq. Mounted Mechanical Shoe	Internal Shoe Seal	Primary	A	IFR	Welded	5/10/2012
Baillie Tank Equipment (BTE)	Single Wiper	Secondary Roller Seal	Secondary	B	EFR	Welded/Riveted	5/10/2012
Baillie Tank Equipment (BTE)	Single Wiper	Secondary Wiper Seal	Secondary	B	IFR	Welded	5/10/2012
Buffalo Weaving & Belting Co.	Single Wiper	BWB-1000	Secondary	B	EFR/IFR	Welded	3/1/1996
Chicago Bridge & Iron Co.	Liq. Mounted Mechanical Shoe	SR1A	Primary	A	EFR/IFR	Welded	7/10/2009
Chicago Bridge & Iron Co.	Liq. Mounted Mechanical Shoe	SR1S	Primary	A	IFR	Welded	7/10/2009
Chicago Bridge & Iron Co.	Multiple Wiper	VS200	Secondary	A	EFR/IFR	Welded	4/1/2010
DirecTank Environmental Products	Liq. Mounted Mechanical Shoe	Direct X	Primary	A	EFR/IFR	Welded/Riveted	1/25/2022
DirecTank Environmental Products	Liq. Mounted Mechanical Shoe	Inner Shoe	Primary	A	IFR	Welded/Riveted	1/25/2022
DirecTank Environmental Products	Single Wiper	DirectFlex (SW)	Secondary	B	EFR/IFR	Welded/Riveted	1/25/2022
DirecTank Environmental Products	Multiple Wipers	DirectFlex (MW)	Secondary	A	EFR/IFR	Welded	1/25/2022
DirecTank Environmental Products	Single Wiper	Vapor Shield	Secondary	A	IFR	Welded	1/25/2022
DirecTank Environmental Products	Multiple Wipers	Capacity Plus	Secondary	A	EFR/IFR	Welded	1/25/2022
Discus Engineered Products, LLC	Mechanical Shoe	DISCUS Primary Mechanical Shoe Seal	Primary	A	IFR	Butt and Lap Welded, Riveted	7/17/2018
Discus Engineered Products, LLC	Double Mechanical Shoe	DISCUS Double Mechanical Shoe Seal	Primary/ Secondary	A/B	IFR	Butt and Lap Welded, Riveted	7/17/2018

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Discus Engineered Products, LLC	Liq. Mounted Mechanical Shoe	DISCUS Primary Liquid Mounted Mechanical Shoe Seal	Primary	A	IFR	Butt and Lap Welded, Riveted	7/17/2018
Discus Engineered Products, LLC	Dual Vapor Mounted Wiper Type Rim Seal	DISCUS Dual Primary and Secondary Vapor Mounted Wiper Type Rim Seal	Primary/ Secondary	B	IFR	Butt and Lap Welded, Riveted	7/17/2018
HMT, Inc.	Liq. Mounted Mechanical Shoe	18" Mini-Shoe	Primary	A	IFR	Welded	7/2/1997
HMT, Inc.	Liq. Mounted Mechanical Shoe	SealMaster	Primary	A	IFR	Welded	1/20/1998
HMT, Inc.	Liq. Mounted Mechanical Shoe	12" Mini-Shoe	Primary	A	IFR	Welded	2/15/2005
HMT, Inc.	Liq. Mounted Mechanical Shoe	12" Mini-Flex	Primary	A	IFR	Welded	2/15/2005
HMT, Inc.	Single Wiper	Econo-Flex	Secondary	A	EFR/IFR	Welded	4/29/2010
HMT, Inc.	Multiple Wiper	Seal King CA Style	Secondary	A	EFR/IFR	Welded	6/30/2011
HMT, Inc.	Single Wiper	VAPORFLEX	Secondary	A	IFR	Welded	11/2/2012
HMT, Inc.	Single Wiper	Seal King Low Profile	Secondary	B	EFR	Welded	9/29/2000
HMT, Inc.	Single Wiper	Econo-Flex Secondary Seal	Secondary	B	EFR/IFR	Welded	2/29/2008
Matrix	Multiple Wiper	Secondary Flex-A-Seal (FAS-1)	Secondary	A	EFR/IFR	Welded	8/12/1998
Matrix	Double Wipers	Low Profile Seal (LPS)	Secondary	A	IFR	Welded	9/28/2021
Mesa Industries, Inc	Liq. Mounted Mechanical Shoe	Mechanical Channel Hanger Shoe with ClipLock	Primary	A	EFR/IFR	Welded/Riveted	3/24/2023
Mesa Industries, Inc	Single Wiper	Bubble Secondary Seal	Secondary	A	EFR/IFR	Welded	3/24/2023
Tanco	Liq. Mounted Mechanical Shoe	Tanco PSIF	Primary	A	IFR	Welded	3/4/2003
Tanco	Liq. Mounted Mechanical Shoe	Tanco PSIF	Primary	A	IFR	Riveted	3/4/2003
Tanco	Liq. Mounted Mechanical Shoe	Tanco PSEF	Primary	A	EFR	Welded	3/4/2003

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Tanco	Liq. Mounted Mechanical Shoe	Tanco PSEF	Primary	A	EFR	Riveted	3/4/2003
Tanco	Vapor Mounted Double Wipers	Tanco Double Wiper 100	Primary	B	IFR	Welded	3/4/2003
Tanco	Single Wiper	Tanco Wiper 100	Secondary	B	IFR	Welded	3/4/2003
Tanco	Single Wiper	Tanco Wiper 200	Secondary	B	IFR	Welded	3/4/2003
Tanco	Multiple Wiper	Tanco Riv 100	Secondary	A	EFR/IFR	Riveted	3/4/2003
Tanco	Single Wiper	Tanco ST 100	Secondary	B	EFR/IFR	Welded	3/4/2003
Ultra Flote Corp.	Liq. Mounted Mechanical Shoe	Ultrashoe Swingarm	Primary	A	IFR	Welded	6/8/2004
W-G Seals, Inc	Single Wiper	Welded 5"	Secondary	A	EFR/IFR	Welded	7/28/2010
W-G Seals, Inc	Multiple Wiper	Duo-tip	Secondary	A	EFR/IFR	Welded	7/28/2010
W-G Seals, Inc	Multiple Wiper	Riveted	Secondary	A	EFR/IFR	Riveted	7/28/2010
W-G Seals, Inc	Single Wiper	Wiper Type	Secondary	B	EFR/IFR	Welded	12/5/1995
W-G Seals, Inc	Liq. Mounted Mechanical Shoe	Mechanical Channel Hanger Shoe	Primary	A	EFR/IFR	Welded	7/28/2010

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