

## Flat car for the transportation of large-capacity containers, Sggrs/Sggrs(s) 80'



### Description

The six-axle Sggrs/Sggrs(s) 80' articulated flat cars are designed to transport all types of containers, including tank containers made in accordance with ISO 830-99 and intermodal swap bodies of groups (20), (30), 40, (81), (82), (84), (85), (86) to UIC 592:2013 in 20 and 30 ft of gross weight up to 36 t and in 40 ft of gross weight up to 40 t. The flat cars are mounted on bogies with an axle load of 22.5 t for operation on the 1435 mm gauge.

The 80-foot flat cars with 108/108.2 t load capacity match the best analogues in the world. The rolling stock is equipped with stationary and movable fitting pins to place containers and swap bodies in various combinations. The flat cars have vandal-resistant paint finish (optional at the customer's request) and comply with European standards for noise levels.

The production processes and components for manufacturing of the Sggrs/Sggrs(s) 80' type flat cars conform to European standards EN 10025-2:2004, EN 10204:2004, and EN 15085-4:2008. The flat cars meet the requirements of TSI - Commission Regulation (EC) No 321/2013 and have the vehicle type approval by the European Union Agency for Railways with a permit to operate on the railways of the European Union in accordance with Directive (EC) 2016/797.

Designed by: All-Union Research and Development Centre for Transportation Technology, LLC.

## Specifications

Technical specification	Model Sggrs 80'	Model Sggrs(s) 80'
Payload capacity, t	108	108.2
Tare weight, t	27	26.8
Loading length, ft	26,390	26,390
Flat car base, mm	20,790	20,790
Flat car width, mm	3,050	3,050
Loading height from railhead level, max mm	1,175	1,170
Container size types (including tank containers) and swap bodies	40 ft (1AAA, 1AA, 1A, 1AX), 30 ft (1BBB, 1BB, 1B, 1BX), 20 ft (1CC, 1C, 1CX) ISO 830-99; swap bodies of groups (20), (30), 40, (81), (82), (84), (85), (86) according to UIC 592:2013	40 ft (1AAA, 1AA, 1A, 1AX), 30 ft (1BBB, 1BB, 1B, 1BX), 20 ft (1CC, 1C, 1CX) ISO 830-99; swap bodies of groups (20), (30), 40, (81), (82), (84), (85), (86) according to UIC 592:2013
Number of movable container pins, pcs.	12	12
Number of stationary container pins, pcs.	8	8
Maximum speed, km/h:		
- empty flat car	120	120
- with an axle load of 20.0 t	--	120
- with an axle load of 22.5 t	100	100
Bogie model	Y25	Y25
Design static load from wheelset on rails, kN (tf)	220,5 (22,5)	220,5 (22,5)
Service life, years	24	24
Maintenance interval, years	6	6