

I N S T R U C T I O N S

F O R U S E

- Original -

Vehicle type: Roll trailer 20' 60t
6,2 x 2,5 x 0,66/0,70 m

Serial number: 80082-1 / 1-10

Year of manufacture: 07/2015

Customer: Grimaldi
Italy

Manufacturer: Seacom International AG
Berbiceweg 5
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1 GENERAL INFORMATION



Please carefully read these instructions for use before taking the roll trailer into operation!

Observe the safety instructions!

Keep these instructions for use for future reference!

1.1 Introduction

Read the following operating and maintenance instructions carefully before taking the roll trailer into operation.

These instructions must be available to every person, operating the roll trailer or carrying out maintenance or repair works on the roll trailer.

The roll trailer shall only be employed, operated and maintained according to the information given in these instructions for use.

1.2 Durability

SEACOM roll trailers are robust and require only little maintenance. Please make sure that any damage is instantly remedied by qualified specialists in order to avoid failure of the roll trailer.

To ensure that the roll trailer can be operated safely, use only OEM-quality components.

1.3 Intended Use

SEACOM roll trailers are vehicles to transport cargo on companies' premises, NOT on public roads. To use the roll trailer for any other purpose is beyond the intended scope of application and can result in damage to people or to the roll trailer.

1.4 Warranty

Failure to comply with these instructions for use shall invalidate the warranty.

This is particularly true for any damage caused by the following actions:

- If you use the roll trailer for any other purpose than its intended use.
- If you overload the roll trailer.
- If you or a third party carry out any alterations on the roll trailer without prior permission of SEACOM International AG.
- If you fail to carry out the necessary tests and maintenance works or if you do not carry them out on schedule.

1.5 Contact details

Seacom International AG
Berbiceweg 5
CH - 8212 Neuhausen

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Telefax ++41 (0) 52 632 04 09

2 SAFETY INSTRUCTIONS

2.1 General information

Always adhere to the current national safety regulations of the country in which the roll trailer is operated.



Make sure that the roll trailer is operated, maintained and repaired only by authorized and sufficiently trained and qualified personnel.

Check the roll trailer for any defects or faults before and while using it.

Stop the operation instantly when you notice defects or faults.

2.2 Loading the roll trailer

Never exceed the maximum capacity of the roll trailer indicated on the data plate!



Make sure that the cargo is spread uniformly over the complete load area.

Avoid concentrated loads on the load area, especially when the cargo is heavy.

Fix the load on the roll trailer securely. It shall be prevented from slipping or falling down.

Make sure that the load is not bigger than the dimensions of the platform.

2.3 Operating the roll trailer

Make sure that the towing vehicle has an appropriate capacity.



Never exceed the maximum speed indicated in these instructions for use.

Never operate the roll trailer with people sitting or standing on the roll trailer.

Make sure that at no time people stand or walk underneath the gooseneck.

The roll trailer shall be operated only on even and solid ground.

The speed shall be adapted to the traffic, surface and weather conditions.

Be very careful when driving on ramps.



Reduce speed in curves.

Make sure that nobody is standing or walking in the danger area of the roll trailer while it is in operation or during the process of coupling or uncoupling.

2.4 Parking the roll trailer

Always prevent the roll trailer from rolling when it is parked.



2.5 Maintenance works on the roll trailer



Make sure that the roll trailer is in a safe parking position and prevented from rolling before carrying out maintenance works on the roll trailer.

Repair and maintenance works must only be carried out by trained and qualified specialists.

3 SPECIFICATIONS

Weights and loads		
Capacity	60.000 kg	
Tare weight	4.700 kg	
Axle load	4x 11.700 kg	
5th wheel load (without gooseneck)	18.000 kg	
Dimensions		
Platform length	6.200 mm	
Platform width	2.500 mm	
Platform height	660 / 700 mm	front / rear
Platform cover	5/7 mm	tear plate, for 5 high stacking
Rear overhang	1.400 mm	
Running gear		
Number of axle lines	2	
Number of wheels	8	
Tire size	22x12x16	solid rubber
Speed		
Speed max.	6 km/h	with load
	20 km/h	without load
Accessories		
Collapsible locating pins	4 (2+2)	
D-rings	14 (2+5+5+2)	
Safety coupling with chain hooks above gooseneck tunnel		
C type fork pockets	4 (2+2)	
Paint finish		
Primer:	Hempadur 47200	
Top coat:	Hempel Hemplathane HS 55610	
Colour:	RAL 3011	Brown red

Deviations in weights and dimensions reserved.

4 OPERATING INSTRUCTIONS

4.1 Application

- The roll trailer should only be used for internal transports in accordance with the operating guidelines.
- The transport of persons is not allowed.
- Every day before the start of operation, the driver of the towing vehicle has to check the roll trailer for visible defects.
- During operation the driver has to observe whether any defects or faults occur.

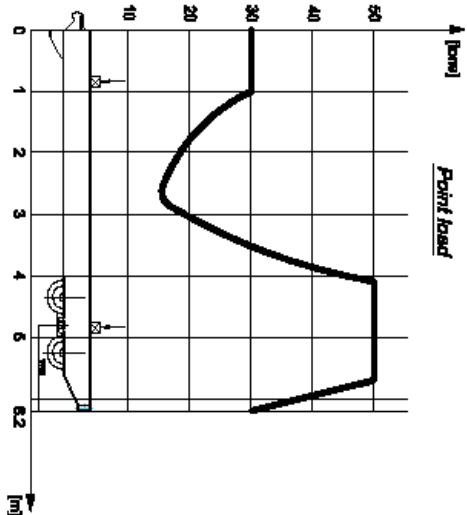
4.2 Loading the roll trailer

- Make sure that the roll trailer is parked on horizontal ground.
- The weight of the cargo put on the roll trailer shall not exceed the maximum capacity.
- The cargo that is to be transported shall be fixed and secured adequately.
- Always make sure to prevent the cargo from falling off the roll trailer and from sliding.
- Containers must be positioned on the pins (pins must be in the up-right position).

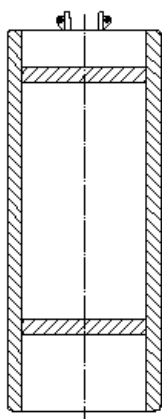
4.3 Loading diagram

- To avoid overloading, always ensure that the centre of gravity is within the respective areas in the diagram (see loading scheme).

A 80082-1 GRIMALDI Rolltrailer 20 feet, 60 tons, 2,5m wide

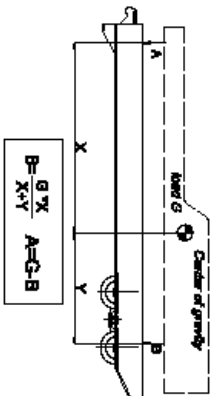


Point loads on the platform to be placed or transferred using transversal supports to the longitudinal beams



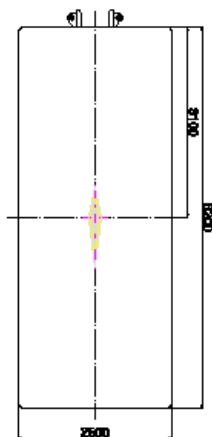
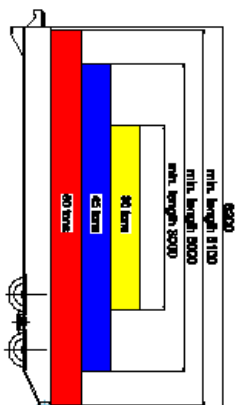
Loading instructions

- 1) Identify loads center of gravity
- 2) Calculate the loads, according to the Rolltrailer platform acc to below scheme



- 3) Make sure, load center of gravity is in the determined area
- 4) Load A and B shall not exceed the limit line in above diagram

Distributed load



Load center of gravity must be within the area, corresponding to the load



4.4 Coupling the roll trailer to the gooseneck

- Drive backwards with the towing vehicle and the gooseneck.
- Place the tongue of the gooseneck exactly into the mouth of the roll trailer.
- Lift the gooseneck with engaged reverse gear and unbraked towing vehicle
- Make sure that the gooseneck is hooked into the roll trailer
- Lift the roll trailer via the lifting hydraulics of the towing vehicle until the front wall of the roll trailer is approximately 100 – 150 mm above the ground.
- If goose neck is supplied with chains, dismount the towing vehicle and attach the chains to the chain hooks on both sides of the safety coupling.

4.5 Driving the towing vehicle with roll trailer

- The roll trailer shall only be towed by an appropriate towing vehicle with a lifting capacity of at least 22 t and a lifting height of at least 750 mm in combination with an adequate gooseneck.
- The roads shall be even, horizontal and free from obstacles.
- The permitted speed and the current safety regulations shall in any case be complied with.
- The maximum speed under load is 6 km/h.
- In curves the speed has to be reduced.
- When reversing, the driver has to be supported by another person, indicating the direction.

5 MAINTENANCE INSTRUCTIONS

5.1 General information

The following tests and maintenance works have to be carried out at regular intervals to ensure that your roll trailer is working reliably and securely. Defective parts have to be exchanged instantly. As spare parts you should use only OEM-quality components, which fulfil the specified requirements and correspond to the national safety regulations of your country.

5.2 First inspection

Wheel bearings have to be checked and if necessary readjusted after the first 10 hours of operation

How to readjust wheel bearings?

- Make sure that the roll trailer is in parking position.
- Lift the rear side of trailer so that the wheels can be rotated by hand.
- Put suitable supports under the lifted trailer.
- Check wheels: In case there is axial movement or the rotation is not smooth,
 - remove the hub cap (warm the cap up to app. 60°C).
 - remove the split pin from the horned nut.
 - tighten the horned nut until the wheel is blocked.
 - untighten the horned nut until the wheel rotates freely but so that there isn't any axial movement.
 - refit the split pin.
 - refit the hub cap (warm the cap up to app. 60°C).
- Make sure that you did not forget to refit any parts.
- Lower rear side of trailer.

5.3 Running gear

Carry out visual inspections of the running gears at regular intervals of approximately 6 months.

5.4 Tires

Carry out visual inspections of the tires every month.

5.5 Wheels

Inspect wheels at regular intervals of approximately 6 months:

1. Check how the wheel is rotating.
2. Check the sound. If the wheel is making any abnormal sounds, demount the wheel and check the roller bearing. Replace it if necessary.
3. Check the axial movement of the wheel. If you notice any axial movement, re-adjust the wheel bearings (see above "How to readjust wheel bearings?")

In case of heavy or frequently use, please shorten the interval of inspection.

5.6 Frame

Carry out visual inspections of the frame and the welding joints at regular intervals. The frame is made of structural steel. In case of damage it can be repaired by qualified staff. For questions, please contact the manufacturer.

5.7 Lubrication

Greasing point	Number	Greasing interval
Axle pivot pins	4	1 month
Rocker beam pins	2	1 month
Wheel set (wheel bearings)	8	6 months

N.B.: The intervals at which greasing is necessary depend on the operating conditions of the roll trailer. In case of heavy use, please shorten the greasing intervals.

Lubricant: Standard multi purpose grease
Viscosity class NLGI 2.

5.8 Tightening torque for screws and nuts

All screws and nuts have to be checked and tightened respectively on time a month

Friction value: $\mu_{\text{tot.}} = 0,12$ for screws and nuts without after-treatment as well as phosphated screws.
If not otherwise indicated the
tightening torque can be taken
from the following table:

Metric standard threads (ISO) DIN 13, sheet 13

Dimension	8.8		10.9		12.9
M4	2,8		4,1		4,8
M5	5,5		8,1		9,5
M6	9,5		14		16,5
M7	15		23		28
M8	23		34		40
M10	46		68		79
M12	79		115		135
M14	125		185		215
M16	195		280		330
M18	280		390		460
M20	390		560		650
M22	530		750		880
M24	670		960		1100
M27	1000		1400		1650
M30	1350		1900		2250
M33	1850		2600		3000
M36	2350		3300		3900
M39	3000		4300		5100

Maintenance Records

Serial number: _____

Date of commissioning: _____

Date of first inspection: _____

Carried out by: _____

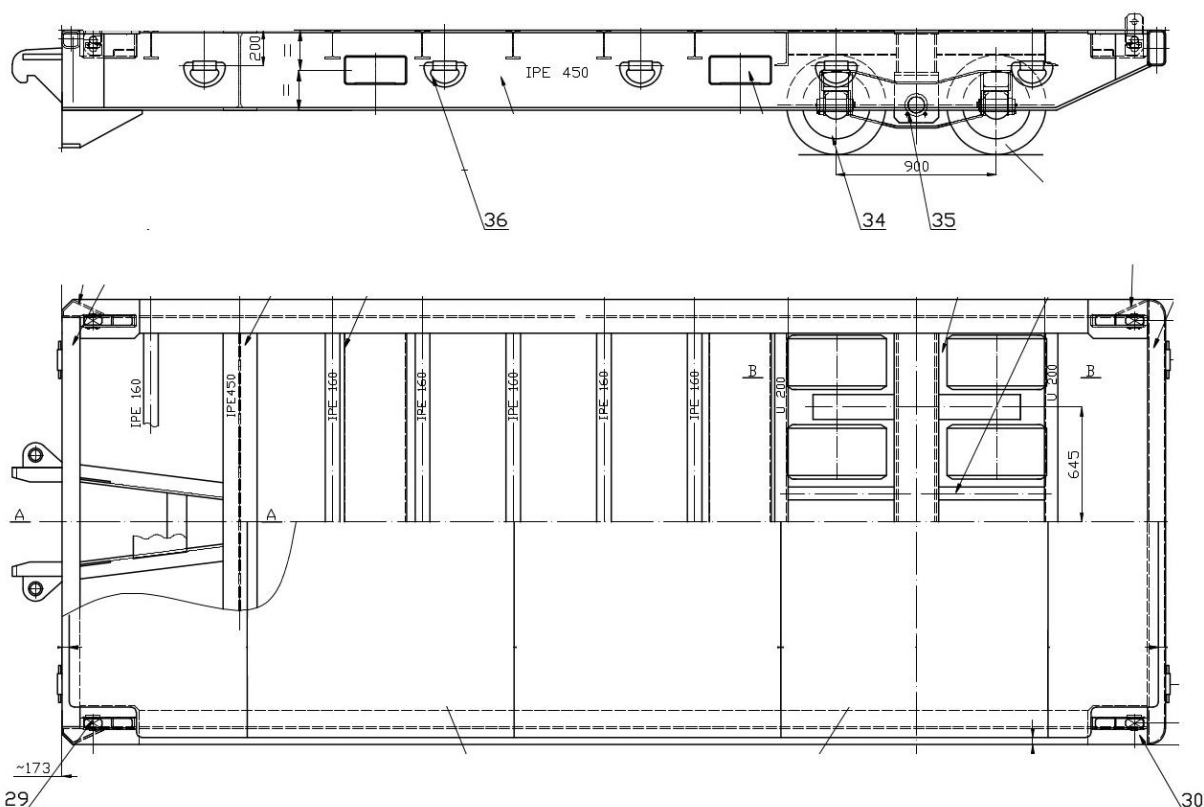
Periodic inspections / maintenance works

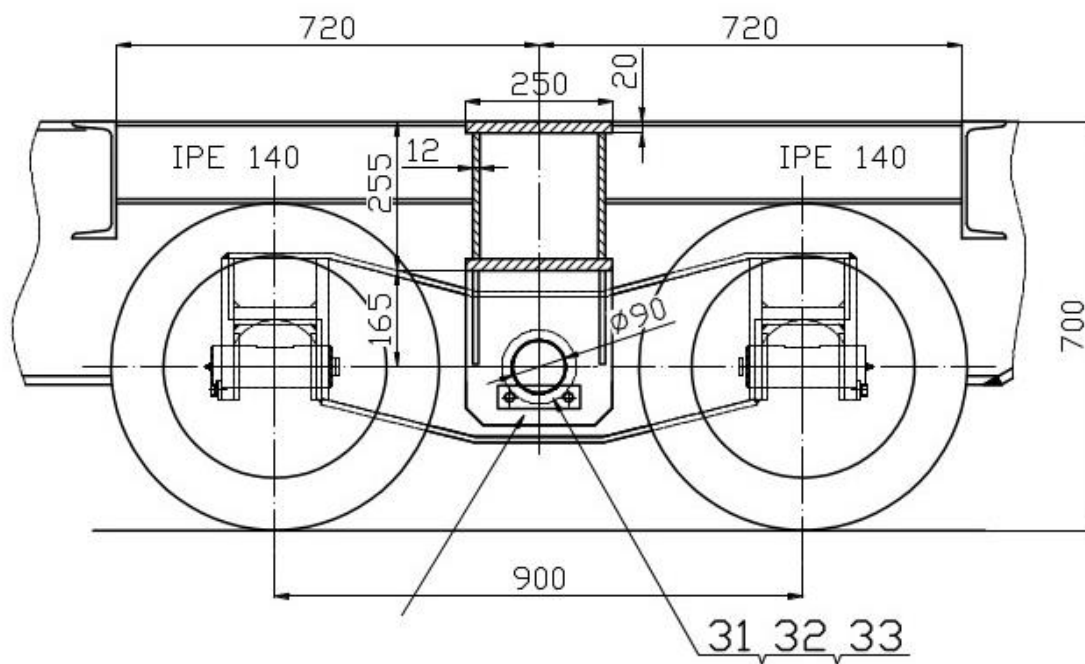
Date	Result	Defects remedied on by		Signature

6 SPARE PARTS

6.1 GENERAL VIEW

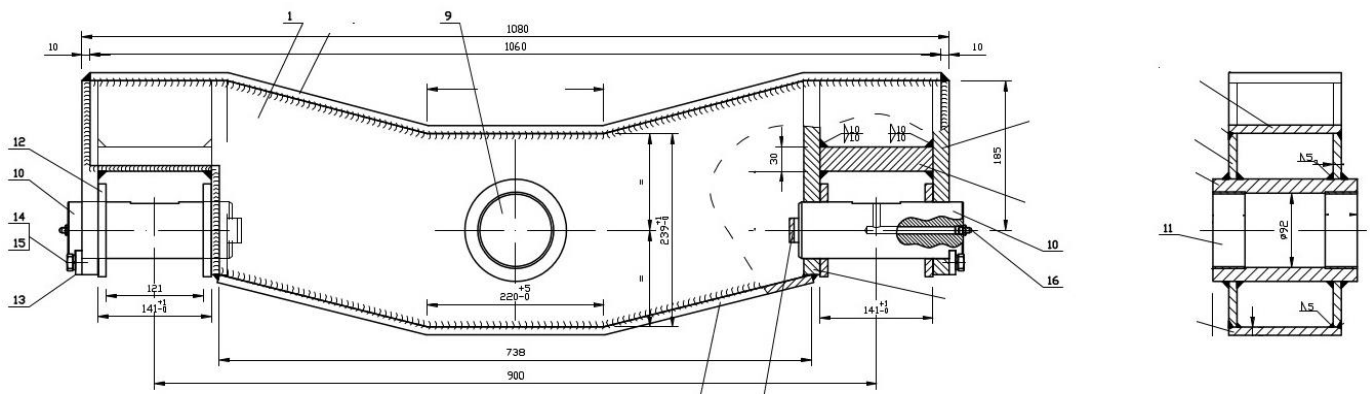
Number of spare part list		80082-1
Item	Description	Part no
29	Collapsible locating pins front	80082-1.29
30	Collapsible locating pins rear	80082-1.30
31	Axle guard	80082-1.31
32	Screw M 16x40	80082-1.32
33	Washer M 16	80082-1.33
34	Wheel set 22x12x16 (559x305)	80082-1.34 →6.3
35	Rocker beam	80082-1.35 →6.2
36	D Ring	80082-1.36





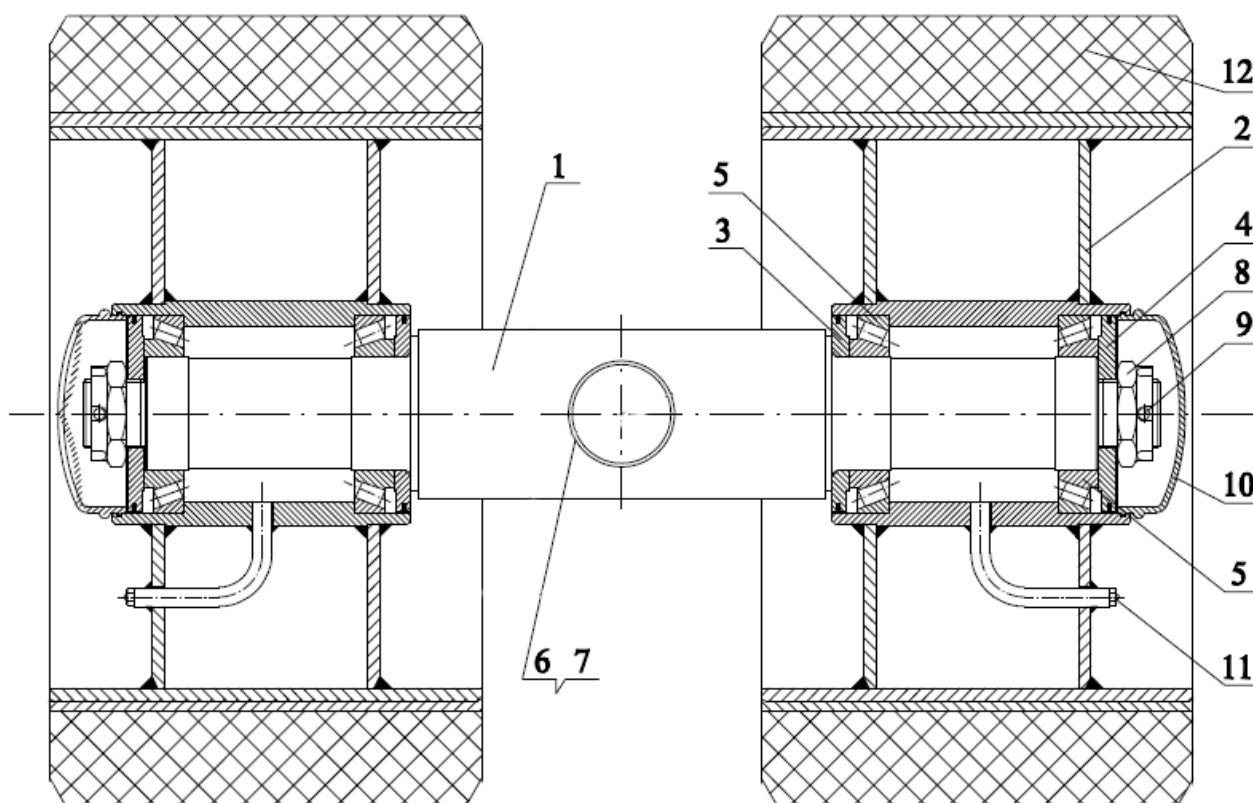
6.2 ROCKER BEAM

Item	Description	Part. No
1	Beam	80082-1.35.1
9	Bolt d=90	80082-1.35.9
10	Bolt d=70	80082-1.35.10
11	Bush	80082-1.35.11
12	Washer	80082-1.35.12
13	Axle guard	80082-1.35.13
14	Screw M 12x25	80082-1.35.14
15	Washer A 12,5	80082-1.35.15
16	Grease nipple	80082-1.35.16



6.3 WHEEL SET 22X12X16 (559X305)

Item	Description	Part. No / Type
1	Axle	80082-1.34.1
2	Wheel body	80082-1.34.2
3.1	Fey-Washer d=139/80	80082-1.34.3.1
3.2	Fey-Ring FK6 140 ASD	80082-1.34.3.2
4.1	Fey-Washer d=139/48,5	80082-1.34.4.1
4.2	Fey-Ring FK6 140 ASD	80082-1.34.4.2
5	Taper roller bearing 30216	80082-1.34.5
6	Bush 75/70-40	80082-1.34.6
7	Distance tube l=40	80082-1.34.7
8	Castle nut M48x1,5 DIN937	80082-1.34.8
9	Split pin 8x80 DIN94	80082-1.34.9
10	Hub cap d=140	80082-1.34.10
11	Greasing nipple AM10x1 DIN71412	80082-1.34.11
12	Tire 22x12x16 (559x305)	80082-1.34.12



6.4 Collapsible locating pin

Item	Description	Part. No
2	Bolt d=40	80082-1.29.2
9	Pin	80082-1.29.9
10	Screw M 10x20	80082-1.29.10
11	Washer M 10	80082-1.29.11
12	Axle guard 25x6	80082-1.29.12

