

# Rainbow Containers GmbH

## BRIEF SPECIFICATION FOR REEFER STANDARD

### 40' x 8' x 9'6" MGSS REEFER CONTAINER – High Cube

1. External	Length	12.192 mm (0,-10)	
	Width	2.438 mm (0,-5)	
	Height	2.896 mm (0,-5)	
2. Internal	Length	11.583 mm (0,-10)	*With CARRIER Cooling Unit
	Width	2.290 mm (0,-5)	
	Height	2.552 mm (0,-5)	
	Cubic capacity	67.7 m <sup>3</sup>	2.390 Cu.Ft.
3. Door opening	Width	2.294 mm	(0,-5)
	Height	2.574 mm	(0,-5)
4. Cargo access height		2.510 mm	(0,-5)
5. Max. Gross weight		34.000 kg	(74.960 lb)
6. Tare weight		4.720 kg	(10.410 lb) *Including reefer unit 530kg
7. Max payload		29.280 kg	(64.550 lb)
8. Cooling machine		CARRIER 69NT40-511	
9. Heat leakage value		36 kcal / hr.	(41.9 W / K) at 20 mean wall temp.
10. Air leakage value		5m <sup>3</sup> / hr	(176.5 cu.ft / hr) at 25.4 mm WPG inside
11. Blowing agent		HCFC (R141b)	
12. Tunnel plate		CORTEN-A, t 4.0 mm	
13. Base panel		CORTEN-A, t 1.6 mm	corrugated base
14. T-floor		Aluminum extrusion,	63.5 mm height x 63.5 mm pitch
15. Floor bow		Five (5) aluminium	extrusion

16. Top side rail	CORTEN-A, t 4.0 mm, cold rolled profile		
17. Bottom side rail	CORTEN-A, t 4.0 mm, cold rolled profile		
18. Side panel	MGSS, t 0.8 mm main and t 1.0 mm ends corrugated panel		
19. Side post	Pressed omega section		
20. Side inner lining	AISI 304, t 0.7 mm, with deep inverted corrugations		
21. Roof panel	MGSS, t 0.8 mm main and t 1.0 mm end, with out-standing corrugation		
22. Roof bow	Three (3) pieces CORTEN-A pressed omega section		
23. Roof stringer	Five (5) aluminum extrusion		
24. Roof lining	One piece pre-painted aluminum sheet, t 0.9 mm, with small bead corrugation		
25. Plymetal door	Outer skin – 1.27 mm thick pre-painted aluminum sheet Core – 20.0 mm thick plywood Inner skin – 0.6 mm thick HDG steel sheet		
26. Door lining	AISI 304, t 0.7 mm, with out-standing corrugation		
27. Door locking hardware	Bloxwich BE2577MN type / equivalent		
28. End frame (rear/front)	CORTEN-A		
Rear header	t 4.0 mm / t 3.0 mm	Front header	t 4.0 mm
Rear sill	t 6.0 mm / t 4.0 mm	Front sill	t 4.0 mm
Rear post	t 6.0 mm	Front post	t 6.0 mm
29. Foam thickness and density			
	Thickness	Density	
Side	63 mm	50-55 kg / m <sup>3</sup>	
Door	60 mm	40-45 kg / m <sup>3</sup>	
Roof	90 mm	45-50 kg / m <sup>3</sup>	
Base	75/128 mm	55-60 kg / m <sup>3</sup>	
Corner		45 kg / m <sup>3</sup>	

30. Paint

- 1) CORTEN-A parts
  - Zinc rich primer 30 micron
  - Epoxy primer 40 micron
  - Top coat 40 micron
- 2) MGSS parts
  - Epoxy primer 40 micron
  - Top coat 40 micron
- 3) Under coating
  - Zinc rich primer 40 micron
  - Top coat 200micron

29. Other Device Arrangement

- 1) Gen-set mounting device

30. Test

- 1) Stacking test 86.400 kg / post
- 2) Top & bottom lifting 2R
- 3) Restraint 2.0R (1.0R per side)
- 4) Racking
  - Transverse 15.240kg
  - Longitudinal 7.620kg
- 5) End wall 0.4 P
- 6) Side wall 0.6 P
- 7) Roof 300 kg
- 8) Floor strength 7.260 kg

31. Guarantee

- 1) Paint 5 years
- 2) Decal 7 years
- 3) Other 1 year