TECHNICAL DATASHEETS

AGI EMEA

Silos bulk feed tanks datasheet
Technical specifications

INTRODUCTION

About AGI

AGI is one of the world's leading manufacturer and solution provider in farm and commercial agriculture equipment. We're Supplying the World's Food Infrastructure. We understand that feeding the world requires a global network of infrastructure and technology to store, blend, mix, convey, condition, process, and protect hundreds of millions of tons of agriculture inputs and crops flowing around the world daily. Our AGI products, equipment, and technology facilitates this global movement, from growing crops and moving them to market, to processing crops into feed for animals and food for people.

As a global leader in the planning, engineering and manufacturing of full solutions and systems, we operate across 5 platforms — Seed, Fertilizer, Grain, Feed, and Food — and we partner with our customers on 6 continents to leverage the AGI Advantage and engineer unique, market-specific systems.

These systems are delivered for farm and commercial applications and include Storage, Handling, Structural, Processing, and Technology all based on and brought together by Engineering and Project Management.

Over 35 AGI brands are among the most recognized equipment manufacturers in the global agriculture industry. Our AGI engineers and project managers deliver custom-designed farm and commercial systems for storage and conditioning, handling, structures, processing, and controls applications.

With over 160 years of combined history and our internationally-recognized products, services, and brands, the AGI Advantage has you covered.

About AGI EMEA

AGI EMEA is the AGI hub for EMEA Region and is the result of FRAME and PTM amalgamation into a single legal entity.
With three updated state-of-the-art manufacturing facilities in Italy, AGI EMEA delivers custom systems and solutions across seven components: storage, handling, processing, structures, technology, project management and engineering.
With over 30 years of experience in grain storage and handling industry, AGI EMEA is one of Europe's largest and most respected manufactures of all types of grain storage and handling solutions for commercial and agricultural applications.
AGI EMEA product portfolio includes silos and accessories, catwalks, towers, ladders, platforms, sweeps, temperature sensing, chain conveyors, bucket elevators, belt conveyors, weighing, cleaning, bagging and dryers solutions.
From the first design to manufacturing and installation, customers trust AGI EMEA as the ideal partner on their projects around the world.

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Contents

— Picture of a silo bulk feed tanks

1. Silos: Bulk feed tanks

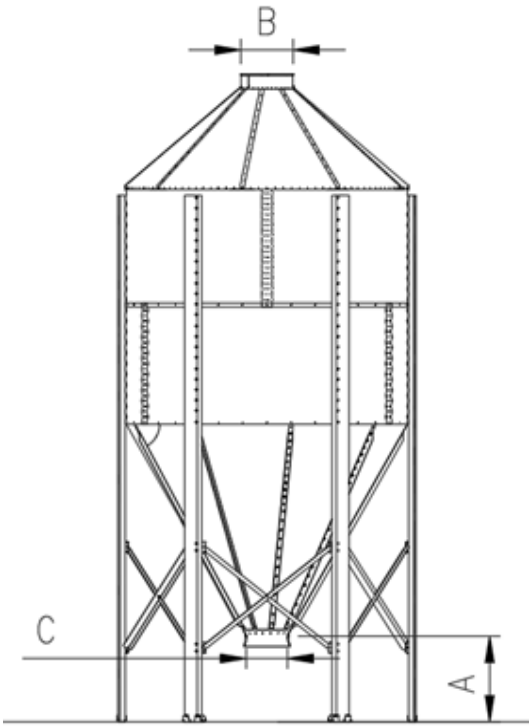
You spend time caring and nurturing your livestock to bringing in high yield. Storing your feed in bins with faulty or inefficient delivery systems is like letting your hard-earned profits slip right through your fingers.
AGI Bulk Feed Tanks are engineered and built to provide optimum protection, ease of use and reliable performance over the long haul. We have taken extra steps in the manufacturing and design process to incorporate details and features that make a big difference in the day-to-day use of feed hopper bins and return on your investment long-term.

KEY FEATURES

- Hopper available in 45°,60° and 67° inclination to guarantee the loadout of any commodity
- Stiffeners down to the ground
- 40° roof pitch for better feed fill and greater capacity
- Hopper stabilizer supplied as a standard (***Fig. 9***)
- Extended lifespan thanks to the reinforcing L-profiles bolted over hopper and roof panels joints (***Fig .1 & 2***)
- Z275 minimum galvanized steel wall sheets for extended life of galvanized coating
- Engineered for optimal structural strength
- Seismic acceleration up to 0,25g
- Precisely manufactured to AGI quality standards

DETAILS

MATERIALS (SHEETS & STIFFENERS)	
Min. steel grade	S350
Min. steel coating	Z275
BOLTED CONNECTION	
Bolt type	Fully threaded bolt with sealing washer
Bolt size	M10
GEOMETRY	
Hopper cone slopes	45°, 60°; 67°
Corrugation pitch	101,4 mm
A. Under hopper clearance (w/o optionals)	1000 mm
B. Inlet size	500 mm
C. Outlet size (w/o optionals) (Fig. 4)	600 mm



THE CONTRACTOR CHOICE

- Every sheet & stiffener is labelled for easy identification in the field.
- Sheets & stiffeners are precisely bundled to enable building from the stack.
- Fast & easy installation of hopper panels is possible thanks special hopper skirt ring (***Fig. 3***).
- Easy-to-use construction guide simplifies the process— especially for first-time installers

OPTIONALS

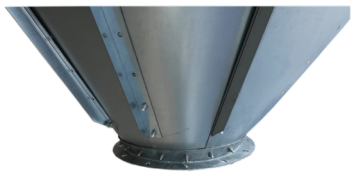
- Roof cap for manual closure from the top
- Remote cap opener (*Fig. 5 & 6*)
- Eave manway for internal inspection
- Roof ladder kit
- Sidewall view window kit (high/low level indicator) - (*Fig. 8*)
- Hopper view window kit (low level indicator) - (*Fig. 8*)
- Predisposition for pneumatic filling
- Transition DIA. 600 mm to 200x200 mm
- Cart unloading kit (Transition + elbow + manual slide 200x200 mm) - (*Fig. 7*)
- Vertical ladder from ground

2. Figures mentioned in optionals

— Fig 1. Reinforcing L-profiles bolted over roof panels joints

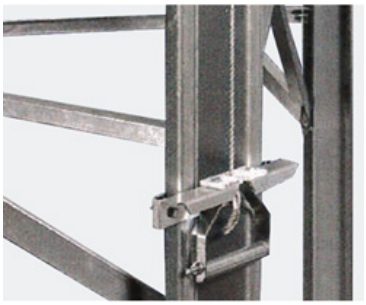
— Fig 2. Reinforcing L-profiles bolted over hopper panels joints

— Fig 3. Special hopper skirt ring

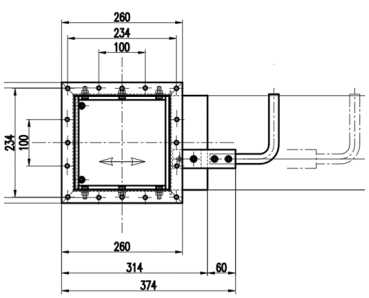


— Fig 4. Hopper outlet detail (*w/o optionals*)

— Fig 5. Remote cap opener



— Fig 6. Opening control lever for the roof cap



— Fig 7. Manual slide size and interface

— Fig 8. Sidewall/hopper view window kit (low level indicator)

— Fig 9. Hopper stabilizer detail

3. Specifications

CAPACITIES AND DIMENSIONS

MOD.	RINGS NO.	DIAMETER	CYLINDER HEIGHT	ROOF HEIGHT	HOPPER HEIGHT [M]			OVERALL HEIGHT [M]			CAPACITIES [M³]			APPROX. FULL WEIGHT (*) [TON]		
		[m]	[m]	[m]	45°	60°	67°	45°	60°	67°	**45°**	**60°**	**67°**	45°	60°	67°
3	**2**	2,73	2,27	0,99	1,07	1,84	2,51	5,32	6,10	6,77	**17,82**	**19,77**	**21,42**	14	15	16
	3	2,73	3,38	0,99	1,07	1,84	2,51	6,44	7,22	7,88	**24,35**	**26,30**	**27,96**	19	20	21
	4	2,73	4,50	0,99	1,07	1,84	2,51	7,56	8,34	9,00	**30,89**	**32,84**	**34,50**	24	25	26
	5	2,73	5,62	0,99	1,07	1,84	2,51	8,67	9,45	10,12	**37,43**	**39,37**	**41,03**	29	30	31
4	**2**	3,64	2,27	1,37	1,52	2,63	3,58	6,16	7,27	8,22	**34,36**	**38,97**	**42,90**	26	30	33
	3	3,64	3,38	1,37	1,52	2,63	3,58	7,28	8,39	9,34	**45,98**	**50,59**	**54,52**	35	39	42
	4	3,64	4,50	1,37	1,52	2,63	3,58	8,39	9,51	10,45	**57,59**	**62,21**	**66,14**	44	47	50
	5	3,64	5,62	1,37	1,52	2,63	3,58	9,51	10,62	11,57	**69,21**	**73,83**	**77,76**	53	56	59

(*) Evaluated considering a specific density of 780 kg/m³