

FRAME TECHNICAL DATASHEET

ROOF AND ROOF STRUCTURE

APPLICATIONS

FRAME silo roofs based on two designs, with & without an internal support structure, the basic roof angle is 31 degrees for both designs.

Up to the model FP 18 the internal supporting structure is supplied only for special load conditions (such as high snow loads or conveyor loads). From model 18 onwards, **FRAME**

roofs are exclusively designed with a galvanized internal supporting structure.

The roofs supporting structures are normally offered in 5 no. different standards for each model: snow load of 75; 25; 150; 200 and 250kgs/m²; designs are also available to support larger loads as required.



ROOF TECHNICAL FEATURES

Manufactured from galvanized steel sheet with Z450 coating as standard; as options, both Z600 coated sheet steel & Magnelis metallic coating or Aluzinc.

All the bolts are spun galvanized and supplied with weatherproof washers. For silos above model FP 10, an eaves sealing ring is supplied as standard. For smaller diameter silos, the eaves sealing ring is available as an optional extra

FRAME silo roofs have, as standard, pre-punched both the manhole and the necessary roof vent apertures, together with a centre filling hatch, on smaller diameter silos this can be hinged, on larger diameter silos it is bolted.

The silo roof panels are 'ribbed', & can be assembled very quickly, they are 'self-supporting' for silos up to Model 18 with a standard snow load of 75 kgs/m².

Additional accessories such as brackets for the temperature cables, roof ladders, eave walkway and eave handrails, snow barriers and eave handrails, and 'anti-explosion' system can be supplied upon request.



— Roof and Roof Structure

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INTERNAL ROOF STRUCTURES

The galvanized **FRAME** roof structures are amongst the most robust on the market and are supplied with the necessary trusses, bracing and purlins in structural profiled steel. The fixings are mostly spun galvanised.

Every **FRAME** silo roof is specifically designed for loads it will be subjected to, and, where a similar roof had not been manufacture previously, a roof would be assembled in the factory to test before the final design was released for manufacture.

BENEFITS

- › Ease of assembly
- › Galvanised, rather than painted internal roof structure, reduces the risk of contamination of the stored crop through possible corrosion
- › Use of structural steel in quality S280 or S350 for A- FRAME/ truss and purlin
- › Tension ring for structure reinforcement can be added
- › **FRAME** also can provide as an optional a complete center pole and rotating stairway to save assembly time

PHOTOS



— Internal view



— Eaves fixing



— Internal roof structures



— General views of the FRAME roof.



— Intersection of tie bars & purlins



— Snow barriers

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SILO	DIAMETER	DIAM. INLET	PEAK LOAD	PROBES POSITIONING						SILO		
				"PROBES STD"	R0	R 1	R 2	R 3	R 4			
				Central	3,25 m	6,0 m	9,0 m	12,0 m				
MOD.	[m]	mm	[kg]	n° TOT	n°	n°	n°	n°	n°	MOD.		
SELF-SUPPORTING	FP 4	3,638	760	250	-	-	-	-	-	-	FP 4	SELF-SUPPORTING
	FP 5	4,548	760	250	-	-	-	-	-	-	FP 5	
	FP 6	5,457	760	400	-	-	-	-	-	-	FP 6	
	FP 7	6,367	760	500	-	-	-	-	-	-	FP 7	
	FP 8	7,277	960	500	1	1	-	-	-	-	FP 8	
	FP 9	8,186	1000	750	1	1	-	-	-	-	FP 9	
SELF-SUPPORTING / TRELLIS	FP 10	9,096	1000	750	1	1	-	-	-	-	FP 10	AUTOP / TRAL
	FP 11	10,005	1000	1000	1	1	-	-	-	-	FP 11	
	FP 12	10,915	1000	1000	3	-	3	-	-	-	FP 12	
	FP 13	11,820	1000	1000	3	-	3	-	-	-	FP 13	
	FP 14	12,734	1000	1000	3	-	3	-	-	-	FP 14	
	FP 15	13,640	1000	1500	4	1	3	-	-	-	FP 15	
	FP 16	14,553	1000	1500	4	1	3	-	-	-	FP 16	
	FP 17	14,460	1000	3000	4	1	3	-	-	-	FP 17	
	FP 18	16,372	1000	3000	4	1	-	3	-	-	FP 18	
TRELLIS	FP 19	17,280	1000	5000	5	1	-	4	-	-	FP 19	TRELLIS
	FP 20	18,191	1000	5000	5	1	-	4	-	-	FP 20	
	FP 21	19,100	1000	5000	7	-	3	4	-	-	FP 21	
	FP 22	20,011	1000	5000	7	-	3	4	-	-	FP 22	
	FP 23	20,920	1000	7500	8	-	3	5	-	-	FP 23	
	FP 24	21,830	1000	7500	8	-	3	5	-	-	FP 24	
	FP 25	22,740	1000	10000	9	-	3	6	-	-	FP 25	
	FP 26	23,649	1000	10000	10	-	4	-	6	-	FP 26	
	FP 27	24,558	1000	10000	11	-	4	-	7	-	FP 27	
	FP 28	25,468	1600	12000	11	-	4	-	7	-	FP 28	
	FP 29	26,378	1600	12000	11	-	4	-	7	-	FP 29	
	FP 30	27,287	1600	12000	12	-	4	-	8	-	FP 30	
	FP 31	28,197	1600	12000	12	-	4	-	8	-	FP 31	
	FP 32	29,106	1600	15000	12	-	4	-	-	8	FP 32	
	FP 33	30,016	1600	15000	14	-	4	-	-	10	FP 33	
	FP 34	30,925	1600	15000	14	-	4	-	-	10	FP 34	
	FP 35	31,835	1600	15000	14	-	4	-	-	10	FP 35	