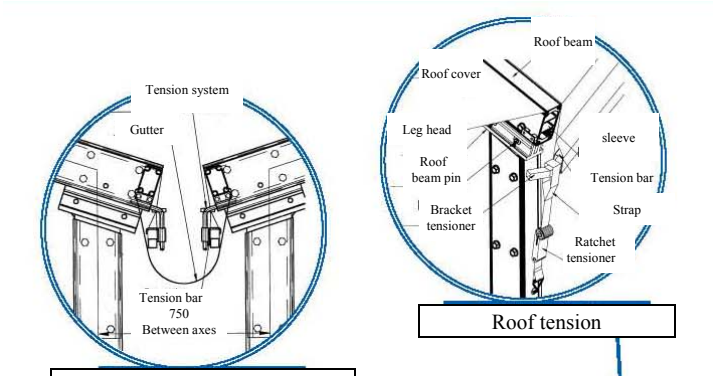
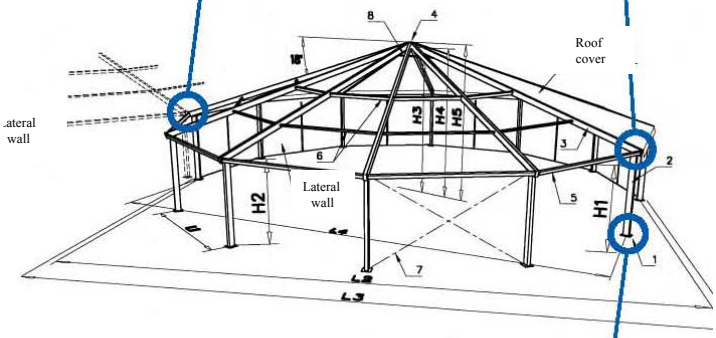
STANDARD DODECAGON

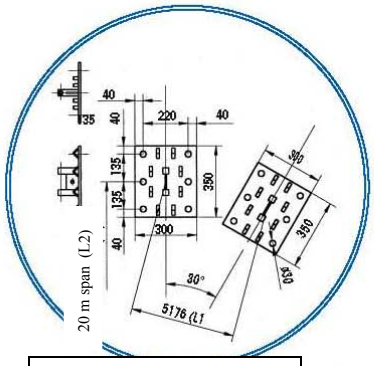
Span 20 m, ht 2.50m, 3m and 4m



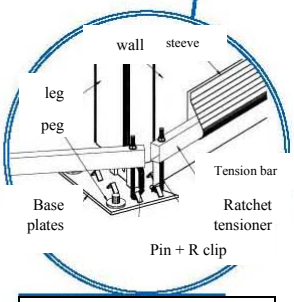
Juxtaposed structures

Roof tension

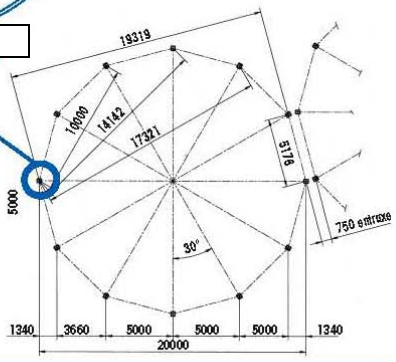




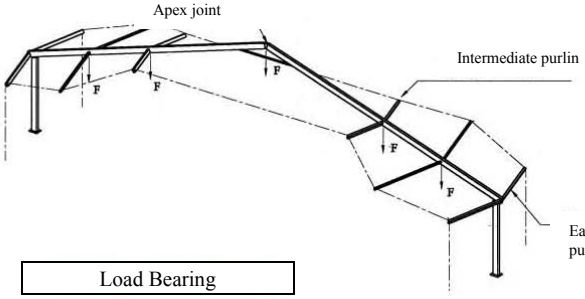
Base plates



Wall tension



Setting out



Load Bearing

Specifications		20 m		
		ht 2,50 m	ht 3 m	ht 4 m
Span	L2	20	20	20
Overall Width	L3	20,58	20,58	20,58
External lateral height		2,62	3,17	4,17
Internal lateral height	H2	2,53	3,08	4,08
External ridge height	H5	5,93	6,48	7,48
Internal ridge height	H4	5,73	6,28	7,28
Under eaves height	H1	2,48	3,03	4,03
Height at roof brace	H3	5,45	6	7
Bay	L1	5,18	5,18	5,18
Area		300 m²	300 m²	300 m²
Roof pitch		18°	18°	18°
Base plate	1	350x300	350x300	350x300
Leg	2	210x110	210x110	210x110 reinforced
Roof beam	3	210x110	210x110	210x110 reinforced
Apex joint	4			
Eaves purlin	5	125x75	125x75	125x75
Intermediate purlin	6	125x75 and 60x60	125x75 and 60x60	125x75 and 60x60
Number of intermediate purlins		24	24	24
Lateral bracing cable	7	diam. 8 mm	diam. 8 mm	diam. 8 mm
Roof brace	8	diam. 48,3 mm	diam. 48,3 mm	diam. 48,3 mm

Erection/dismantling	20 m Dodecagon
Number of people	6
Total duration of erection	10,30 hours
vehicles + duration	12 m fork lift truck - 10 hours
Necessary equipment provided with frame	1 toasting fork 2,20 m 4m and 5 m + 1 octagonal measuring bar 20 m + 2 no. toasting bars 6m ; 3 ropes 30 m Ø 14 mm ; 2 handles for ratchet tensioner
Necessary equipment not provided	2 no. 4m ladders, 1 no.30 m measuring tape sledgehammers, hammers, adjustable spanners
Time saved for dismantling	30%

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Anchoring and weighting	Anchoring			Weighting	
	Uplift force kg	Coef.	Number of pegs	Uplift force kg	Coef.
Common + intermediate braced base plate	2050	2	4 lg 850	1700	1,65

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Load Bearing	Height 2,50m, 3m and 4m
With snow	F = 0 kg
Without snow	F = 125 kg

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Packaging		Frame 20 m	Covers 20 m	Example* 20x2,50m	Example* 20x3
Weight without packaging	ht 2,50m (kg)	2690	528	3230	3293
Complete structure	ht 3m (kg)	2728	552		
	CV/Bay ht 2,50 m (kg)	12			
	CV/Bay ht 3 m (kg)	13			
Number of cover racks				1	1
Number of frame racks				2	2
Number of boxes/crates				1	1
Theoretical surface required for transport by lorry	on rack			12x1,2m	12x1,2m
Theoretical surface required for transport by lorry	in bundles			12x1,2m	12x1,2m
Theoretical number of structures per container (in bundles) 20' dry				4	4
Theoretical number of structures per container (in bundles) 40' open-top					
Longest piece : roof beam 10660 mm					
Description of packaging, Covers in bags, on pallet or on rack Frame in bundles, loose or rack					

** Calculated on basis of complete structures, not mixed*