Datasheet
for a thermoplastic cylindrical tank flatbottomed tank
made from PE 80 according to DVS 2205

For company:		Musterman Industry	
Installation place:			
Installation:		inside	
Lifetime:		10 Years	
Medium:		Sea water (-)	
Density of medium:		1,05 g/cm³	
Temperature:		30 ° C	
Safety factor:		2,0	
Reduction factor:	A_2 / A_{2l}	1,0 /	1,0
Type of roof:		flat roof	
Type of bottom:		flat bottom	
Ventilation:		Roof bend airing	
Drawing number:		000002	
Tank number:		00002	

Loadings

Pressure of medium:	$p_ü$	0,000	bar	p_u	0,000 bar
	$p_{ü_k}$	0,005	bar	p_{u_k}	0,003 bar
Loadings on the roof:	G_A	0	N		
Weight of whole tank:	G_E	277.285	N		
Weight of roof:	G_D	12.635	N		
Weight of cylinder:	G_Z	243.503	N		
Weight of bottom:	G_B	21.147	N		
Weight of medium:	G_F	4.087.910	N		

Dimensions

Internal diameter:	d	6.000	mm		
Total height:	h	14.800	mm		
Cylindrical height:	h_z	14.775	mm		
Required filling level:	h_f	14.036	mm	(396,9	m³)
Installation height:	h_A	15.985	mm		
flat roof:	s_D	25	mm		
Height of regidities / thickne	h_s	240	mm	S_s 30	mm
Distance of regidities:		545	mm		
Bottom:	s_B	80	mm		

Sections		Wall thickness		Height of Section	
1		20	mm	1.775	mm
2		35	mm	2.000	mm
3		55	mm	2.000	mm
4	bent at elevated temperature	80	mm	2.000	mm
5	bent at elevated temperature	100	mm	2.000	mm
6	bent at elevated temperature	120	mm	1.500	mm
7	bent at elevated temperature	132	mm	1.500	mm
8	Two layers	200	mm	2.000	mm

Thickness of welding seam bottom/wall:				a	56	mm
Lifting lugs:	$b_{ö}$	2.704	mm	d_L	21	mm
	$s_{ö}$	379	mm			
Thickness of welding seams for lifting lugs:				a	14	mm
Quantitiy of anchorages:		0				

Roof nozzles

No specification