SIDEWALL CALCULATION

Customer		
Reference		
Offer		

General features

Quantity			
Belt type			
Belt reference			
Required capacity	[ton/h]		
Filling factor (usually 0,75)			
Belt speed	[m/s]		
Conveyor type			
Max. slope	[deg]		
Elevation	[m]		
Center distance	[m]		
Material handled			
Bulk density	[ton/m^3]		
Surcharge angle	[deg]		
Lump size	[mm]		

Belt characteristics

Belt width	[mm]		
Sidewall type			
Cleat type			
Screwed cleats			
Cleat pitch	[mm]		
Free lateral space	[mm]		
Belt tensile strength	[N/mm]		
Rubber edge width	[mm]		
Rubber quality			

Calculation data

Useful capacity	[ton/h]		
Useful capacity	[m^3/h]		
Useful belt width	[mm]		
Sidewall width	[mm]		
Belt approx. weight	[kg/m]		
Max. working tension at drive pulley	[N/mm]		
Max. working tension on lateral spaces	[N/mm]		
Safety factor			
Safety factor at lateral spaces			
Required take-up at tail	[kg]		
Required power	[kW]		
Suggested motor power (η= 0,85)	[kW]		
Min. pulley diameter	[mm]		
Min. deflection wheel diameter	[mm]		
Min. wheel width	[mm]		