

VENT AREA CALCULATION - EN14491

Euratex Limited
3000 Hillwood Drive
Hillwood Business Park
Chertsey KT16 0RS

Tel: 01483 901311
Fax: 01483 433313
email: sales@euratex.co.uk



Company	Quote No.
	Project
	Date
	Issue
Contact	
Telephone	
Fax	

VESSEL INPUT DATA	
Installation Drawing Reference	
Vessel Volume (V)	m3
Length/Diameter Ratio (L/D)	
EXPLOSION CHARACTERISTICS	
Dust Description	
Maximum Explosion Pressure (Pmax)	barg
Maximum Rate of Pressure Rise (Kst)	bar.m.s ⁻¹
VENT CHARACTERISTICS	
Reduced Explosion Pressure (Pred)	barg
Static Opening Pressure (Pstat)	barg
Vent Efficiency (Veff)	%

VENT AREA CALCULATION	
Basic Vent Area (Av)	m2
Additional Vent Area Due to L/D	m2
Additional Vent Area Due to Vent Efficiency	m2
Total Vent Area	m2

ADDITIONAL VENTING DATA	
Recoil Force	kN
Duration of Recoil Force	s
Impulse	kN.s
Flame Length (FL horizontal venting)	m
Flame Length (FL vertical venting)	m
Pressure (at RS)	barg
Pressure (at FL)	barg

PROPOSED VENT DETAILS	
Vent Type	
Vent Size	
Vent Drawing Number	
Vent Switch Type	

NOTES	