

# GRM - ROOF & FLOOR STRATA RELAXATION SIMULATION DATA SHEET

## GRM - 底板和顶板岩层松动模拟数据表

English	General information - parameters	Values	Valid entry
Chinese	综合信息-参数	值	有效范围
English	<b>GEOMECHANICAL DATA</b>		
Chinese	地质力学数据		
English	Exploration (geological) bore name		Max 20 characters
Chinese	勘探(地质)钻孔名称		最多20个字符
English	Worked seam thickness (m)		10m > WST > 1m
Chinese	工作煤层厚度(米)		10米 > WST > 1米
English	Worked seam depth from surface (m)		WSD > 100m
Chinese	工作煤层距地表深度 (米)		WSD > 100米
English	Angle of longwall axis-horizontal stress direction		90 ≥ degree ≥ 0
Chinese	工作面轴向-水平应力方向角		90 ≥ 角度 ≥ 0
English	Major principal horizontal to vertical stresses ratio		0.0 - 4.0
Chinese	主要水平/垂直压力比		
English	Roof strata rocks massif strength		Weak, medium or strong
Chinese	顶板岩层地块强度类型		弱 / 中等 / 强
English	Roof strata rocks massif strength (MPa)		10 - 60 MPa
Chinese	顶板岩层地块强度 (MPa)		
English	<b>MINING DATA</b>		
Chinese	开采数据		
English	Mine name		Max 20 characters
Chinese	煤矿名称		最多20个字符
English	Longwall name / number		Max 20 characters
Chinese	工作面名称或编号		最多20个字符
English	Longwall width (m) [headings centre to centre]		350m > LW > 50m
Chinese	长壁工作面宽度(米)【从通风巷中心到中心】		350米 > 长壁 > 50米
English	Longwall block length (m)		3,000m > LL > 100m
Chinese	采掘面长度(米)		3,000米 > LL > 100米
English	LW retreat rate (m/day)		30m > LRR > 4m
Chinese	采掘面回采进尺(米/天)		30米 > 回采率 > 4米
English	Single heading width & height (m)		7m > SH > 1m
Chinese	单巷道宽和高(米)		7米 > 运输巷 > 1米
English	Double heading pillar width (m) [centre to centre]		50m > PW > 5m
Chinese	双平行煤巷煤柱宽度(米)[从中心到中心]		50米 > 煤柱宽度 > 5米
English	<b>OTHER DATA &amp; INFORMATION</b>		
Chinese	其他数据及信息		
English	Coal mine total gassiness (litres CH4/sec)		litres/sec, litres/min, m <sup>3</sup> /day
Chinese	煤矿瓦斯释放量(升甲烷/秒)		升/秒, 升/分钟, 立方米/天
English	Company Name:		
Chinese	公司名称		
English	Prepared by:		Date:
Chinese	制作人:		日期:

# ROOF & FLOOR LITHOLOGICAL INPUT DATA SHEET

## 顶板 - 底板 岩性数据输入表

Assumptions 矿井参数		Distance 到采层距离		Thickness 厚度	Sonic Velocity (SV) 声速	Uniaxial compressive strength (UCS) 单轴抗压强度	Rock layers and coal seam (name) or description 岩层及煤层(名称)或描述	Comments 备注
		From (m) *起点(米)	To (m) 终点(米)	(m) (米)	(m/s) (米/秒)	MPa (兆帕)	Sandstone, shale, coal etc. 砂岩、页岩、煤等	
		English	Chinese	English	Chinese	English	Chinese	
n+x	English							ROOF STRATA COAL SEAMS 200m above worked seam (Descending) 顶板底层工作 煤层 高于煤层 200米 (递减 )
	Chinese							
	English							
	Chinese							
	English							
	Chinese							
n+1	English							
	Chinese							
6	English							
	Chinese							
5	English							
	Chinese							
4	English							
	Chinese							
3	English							
	Chinese							
2	English	288.50	287.00	1.50	2,500	20	Roof coal seam name	
	Chinese						顶板煤层名称	
1*	English	310.50	288.50	22.00	3,125	46	Shale, carboniferous	
	Chinese						页岩、石炭层	
0	English	<b>288.50</b>	<b>291.00</b>	<b>2.50</b>	<b>1,600</b>	<b>15</b>	<b>Worked coal seam</b>	
	Chinese						<b>工作煤层</b>	
1**	English	291.00	318.35	27.35	3,050	42	Shale, carboniferous	
	Chinese						页岩, 石炭层	
2	English	318.35	320.05	1.70	2,450	15	Floor coal seam name	
	Chinese						底板煤层名称	
n+1	English							
	Chinese							
	English							
	Chinese							
	English							
	Chinese							
n+x	English							
	Chinese							

En \* The first layer starts from the top (roof) of worked seam

Ch 第一层从工作煤层的顶部(顶板)开始

En \*\* The first layer starts from the base (floor) of worked seam

Ch 第一层从工作煤层的底部(底板)开始

En SV & UCS - integer value and valid entry: 1<SV<720 m/s & 1<UCS<8,000 Mpa

Ch 声速&抗压强度-整数值&有效范围: 1<声速 <720 米/秒 和 1<单轴抗压强度<8,000 兆帕

**COAL SEAMS DATA SHEET**

**煤层数据**

Exploration borehole name or number:		抽放钻孔名称或编号:			
#		Depth from (m) 深度始于(米)	Depth to (m) 深度止于(米)	Coal seam name 煤层名称	Mined (TRUE / FALSE) 已开采? (是/否)(1/0)
1	English				
	Chinese				
2	English				
	Chinese				
3	English				
	Chinese				
4	English				
	Chinese				
5	English				
	Chinese				
6	English				
	Chinese				
7	English				
	Chinese				
8	English				
	Chinese				
9	English				
	Chinese				
10	English				
	Chinese				
11	English				
	Chinese				
12	English				
	Chinese				