

### GRM - ROOF & FLOOR STRATA RELAXATION SIMULATION DATA SHEET

General information - parameters	Values	Valid entry
GEOMECHANICAL DATA		
Exploration (geological) bore name		Max 20 characters
Worked seam thickness (m)		10m > WST > 1m
Worked seam depth from surface (m)		WSD > 100m
Angle of longwall axis-horizontal stress direction		90 ≥ degree ≥ 0
Major principal horizontal to vertical stresses ratio		0.0 - 4.0
Roof strata rocks massif strength		Weak, medium or strong
Roof strata rocks massif strength (MPa)		10 - 60 MPa
MINING DATA		
Mine name		Max 20 characters
Longwall name / number		Max 20 characters
Longwall width (m) [headings centre to centre]		350m > LW > 50m
Longwall block length (m)		3,000m > LL > 100m
LW retreat rate (m/day)		30m > LRR > 4m
Single heading width & hight (m)		7m > SH > 1m
Double heading pillar width (m) [centre to centre]		50m > PW > 5m

### COAL SEAMS DATA SHEET

#	Depth from (m)	Depth to (m)	Coal seam name	Mined (TRUE/FALSE)	Comments
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
n+1					
n+x					

### OTHER DATA & INFORMATION

Coal mine total gassiness (litres CH4/sec)		litres/sec, litres/min, m <sup>3</sup> /day
Company Name:		
Prepared by:		Date:

## GRM ROOF AND FLOOR LITHOLOGICAL INPUT DATA SHEET

#	Distance		Thickness (m)	Sonic Velocity (SV)	Uniaxial compressive strength (UCS)	Rock layers and coal seam name or description	Comments
	From (m)	To (m)		(m/s)	MPa	Sandstone, shale, coal etc.	
n+x							ROOF STRATA COAL SEAMS 200m above worked seam (Descending)
n+1							
6							
5							
4							
3							
2	288.50	287.00	1.50	2,500	20	Roof coal seam name	
1*	310.50	288.50	22.00	3,125	46	Shale, carboniferous	Examples only
0	288.50	291.00	2.50	1,600	15	Worked coal seam	Example only
1**	291.00	318.35	27.35	3,050	42	Shale, carboniferous	Examples only
2	318.35	320.05	1.70	2,450	15	Floor coal seam name	
							FLOOR STRATA COAL SEAMS 100m below worked seam (Ascending)
n+1							
n+x							

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

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

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