

Worksheet for Circular Channel



Project Description

Project File	d:\haestad\fmw\kana-mit.fm2
Worksheet	KANA - MITHAM 3 - PIPE
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Discharge

Input Data

Mannings Coefficient	0.015
Channel Slope	2.5000 %
Depth	875.00 mm
Diameter	1,250.00 mm

Results

Discharge	4.99	m ³ /s
Flow Area	0.92	m ²
Wetted Perimeter	2.48	m
Top Width	1.15	m
Critical Depth	1.16	m
Percent Full	70.00	
Critical Slope	0.015179	m/m
Velocity	5.44	m/s
Velocity Head	1.51	m
Specific Energy	2.38	m
Froude Number	1.94	
Maximum Discharge	6.41	m ³ /s
Full Flow Capacity	5.96	m ³ /s
Full Flow Slope	0.017524	m/m
Flow is supercritical.		

