

## BUILDING MATERIALS

Lab 5	MECHANICAL PROPERTIES OF STRUCTURAL TIMBER Determination of bending and compression strength Determination of timber hardness
Date	Names

### 1. Procedure

### 2. Apparatus



### 3. Test results

#### Brinell hardness

N°	Type of timber	Diameter of indentation mm			HBS Brinell Hardness
		d <sub>1</sub>	d <sub>2</sub>	d <sub>m</sub>	
1.					
2.					
3.					

#### Bending strength

N°	Type of timber	Maximum load N	Bending strength at determined moisture content MPa	Bending strength at moisture content of 12% MPa
1.				
2.				
3.				

#### Compression strength parallel to grain

N°	Type of timber	Maximum load N	Compression strength at determined moisture content MPa	Compression strength at moisture content of 12% MPa
1.				
2.				
3.				

### 4. Conclusions