

## #153 Grodziskie

- Gravity **8.3 BLG**
- ABV **3.2 %**
- IBU **22**
- SRM **2.6**
- Style **Grodziskie**

### Batch size

- Expected quantity of finished beer **16 liter(s)**
- Trub loss **3 %**
- Size with trub loss **16.5 liter(s)**
- Boil time **67 min**
- Evaporation rate **14 %/h**
- Boil size **20.9 liter(s)**

### Mash information

- Mash efficiency **69 %**
- Liquor-to-grist ratio **6 liter(s) / kg**
- Mash size **16.8 liter(s)**
- Total mash volume **19.6 liter(s)**

### Steps

- Temp **67 C**, Time **37 min**
- Temp **72 C**, Time **25 min**
- Temp **77 C**, Time **5 min**

### Mash step by step

- Heat up **16.8 liter(s)** of strike water to **70.9C**
- Add grains
- Keep mash **37 min** at **67C**
- Keep mash **25 min** at **72C**
- Keep mash **5 min** at **77C**
- Sparge using **6.9 liter(s)** of **76C** water or to achieve **20.9 liter(s)** of wort

### Fermentables

| Type  | Name                               | Amount         | Yield | EBC |
|-------|------------------------------------|----------------|-------|-----|
| Grain | Grodziski pszeniczny wędzony dębem | 2 kg (71.4%)   | 80 %  | 3   |
| Grain | Weyermann - Carapils               | 0.3 kg (10.7%) | 78 %  | 4   |
| Grain | Płatki owsiane                     | 0.25 kg (8.9%) | 85 %  | 3   |
| Grain | Diastatyczny                       | 0.25 kg (8.9%) | 78 %  | 3   |

### Hops

| Use for             | Name     | Amount | Time   | Alpha acid |
|---------------------|----------|--------|--------|------------|
| Boil                | lunga PL | 7 g    | 55 min | 9.2 %      |
| Boil                | lunga PL | 7 g    | 30 min | 9.2 %      |
| Aroma (end of boil) | lunga PL | 10 g   | 6 min  | 9.2 %      |

### Yeasts

| Name                 | Type | Form  | Amount | Laboratory       |
|----------------------|------|-------|--------|------------------|
| FM12 W szkocką kratę | Ale  | Slant | 100 ml | Fermentum Mobile |

### Extras

Recipe has been printed via **BREWNESS.com** - a complex online solution for homebrewers to track brewing process easily.

| Type   | Name      | Amount | Use for | Time   |
|--------|-----------|--------|---------|--------|
| Fining | Whirlfloc | 1.25 g | Boil    | 12 min |