

## 27. Grodziskie

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- Gravity **8.3 BLG**
- ABV **3.2 %**
- IBU **27**
- SRM **2.5**
- Style **Grodziskie/Graetzer**

### Batch size

- Expected quantity of finished beer **11 liter(s)**
- Trub loss **5 %**
- Size with trub loss **11.6 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **14.7 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **5.3 liter(s)**
- Total mash volume **7 liter(s)**

### Steps

- Temp **68 C**, Time **40 min**
- Temp **72 C**, Time **40 min**

### Mash step by step

- Heat up **5.3 liter(s)** of strike water to **75.9C**
- Add grains
- Keep mash **40 min** at **68C**
- Keep mash **40 min** at **72C**
- Sparge using **11.2 liter(s)** of **76C** water or to achieve **14.7 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Grodziski pszeniczny wędzony dębem	1.5 kg (85.7%)	80 %	3
Grain	Żytni	0.25 kg (14.3%)	85 %	8

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	10 g	60 min	11 %
Boil	lunga	5 g	5 min	11 %

### Extras

Type	Name	Amount	Use for	Time
Flavor	Herbata/Owoce?	1 g	Secondary	1 day(s)