

## #24 Grodziskie

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- Gravity **7.8 BLG**
- ABV **3 %**
- IBU **26**
- SRM **2.4**
- Style **Grodziskie/Graetzer**

### Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.8 liter(s)**

### Mash information

- Mash efficiency **83 %**
- Liquor-to-grist ratio **5 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **18 liter(s)**

### Steps

- Temp **67 C**, Time **60 min**
- Temp **78 C**, Time **15 min**

### Mash step by step

- Heat up **15 liter(s)** of strike water to **71.7C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **15 min** at **78C**
- Sparge using **15.8 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Grodziski	3 kg (100%)	80 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Zlata Polesie	25 g	60 min	6.5 %
Boil	Zlata Polesie	25 g	10 min	6.5 %
Dry Hop	Cascade	40 g	4 day(s)	6 %

### Yeasts

Name	Type	Form	Amount	Laboratory
FM51 Grodzie Dębowe	Wheat	Liquid	100 ml	Fermentum Mobile

### Extras

Type	Name	Amount	Use for	Time
Finning	Mech Irlandzki	5 g	Boil	15 min