

## grodziskie 23

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- Gravity **7.8 BLG**
- ABV **3 %**
- IBU **26**
- SRM **3.7**
- Style **Grodziskie/Graetzer**

### Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **1 %**
- Size with trub loss **25.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **27.8 liter(s)**

### Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **12.4 liter(s)**
- Total mash volume **15.5 liter(s)**

### Steps

- Temp **62 C**, Time **25 min**
- Temp **72 C**, Time **40 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **12.4 liter(s)** of strike water to **67.3C**
- Add grains
- Keep mash **25 min** at **62C**
- Keep mash **40 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **18.5 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Wędzony dębem	2.5 kg (80.6%)	82 %	10
Grain	Słód Wędzony Steinbach	0.5 kg (16.1%)	80 %	5
Grain	łuska	0.1 kg (3.2%)	--- %	---

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Lublin (Lubelski)	50 g	60 min	4 %
Boil	Lublin (Lubelski)	20 g	10 min	4 %