

16# Piwo Grodziskie 8blg

- Gravity **7.8 BLG**
- ABV **3 %**
- IBU **16**
- SRM **2.4**
- Style **Grodziskie/Graetzer**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **24.1 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **8.4 liter(s)**
- Total mash volume **11.2 liter(s)**

Steps

- Temp **52 C**, Time **20 min**
- Temp **69 C**, Time **60 min**
- Temp **80 C**, Time **10 min**

Mash step by step

- Heat up **8.4 liter(s)** of strike water to **57.3C**
- Add grains
- Keep mash **20 min** at **52C**
- Keep mash **60 min** at **69C**
- Keep mash **10 min** at **80C**
- Sparge using **18.5 liter(s)** of **76C** water or to achieve **24.1 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pszoniczny	1.4 kg (50%)	85 %	4
Grain	Grodziski pszoniczny wędzony dębem	0.8 kg (28.6%)	80 %	3
Grain	Pilzniejszy	0.6 kg (21.4%)	81 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Lublin (Lubelski)	20 g	60 min	4 %
Boil	Lublin (Lubelski)	20 g	15 min	4 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11 g	Fermentis