

grodziskie

- Gravity **7.8 BLG**
- ABV **3 %**
- IBU **20**
- SRM **2.3**
- Style **Grodziskie/Graetzer**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.5 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **13.2 liter(s)**
- Total mash volume **16.5 liter(s)**

Steps

- Temp **38 C**, Time **60 min**
- Temp **52 C**, Time **30 min**
- Temp **64 C**, Time **5 min**
- Temp **70 C**, Time **30 min**
- Temp **75 C**, Time **5 min**

Mash step by step

- Heat up **13.2 liter(s)** of strike water to **40.3C**
- Add grains
- Keep mash **60 min** at **38C**
- Keep mash **30 min** at **52C**
- Keep mash **5 min** at **64C**
- Keep mash **30 min** at **70C**
- Keep mash **5 min** at **75C**
- Sparge using **17.6 liter(s)** of **76C** water or to achieve **27.5 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Grodziski pszeniczny wędzony dębem	3.3 kg (100%)	80 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Brewers Gold	24 g	45 min	4.5 %
Boil	Simcoe	6.25 g	30 min	14.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
ccb2	Ale	Slant	20 ml	BGW R&B