

grodziskie 23

- 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 % |