

Grodziskie

- Gravity **8 BLG**
- ABV **3.1 %**
- IBU **25**
- SRM **5.7**
- Style **Grodziskie/Graetzer**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **22 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **27.6 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **13.7 liter(s)**
- Total mash volume **17.1 liter(s)**

Steps

- Temp **38 C**, Time **30 min**
- Temp **52 C**, Time **15 min**
- Temp **64 C**, Time **45 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up **13.7 liter(s)** of strike water to **40.2C**
- Add grains
- Keep mash **30 min** at **38C**
- Keep mash **15 min** at **52C**
- Keep mash **45 min** at **64C**
- Keep mash **30 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **17.3 liter(s)** of **76C** water or to achieve **27.6 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|----------------|-------|------|
| Grain | Weyermann - Grodziski | 2 kg (58.5%) | 82 % | 5 |
| Grain | Zakwaszający | 0.2 kg (5.8%) | 80 % | 4 |
| Grain | Wędzony bukiem Viking Malt | 0.2 kg (5.8%) | 82 % | 10 |
| Grain | Wędzony dębem Viking Malt | 1 kg (29.2%) | 82 % | 10 |
| Grain | Strzegom Barwiący | 0.02 kg (0.6%) | 68 % | 1300 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-----------------------|--------|--------|------------|
| Boil | Lublin (Lubelski) | 30 g | 60 min | 3.4 % |
| Boil | Saaz (Czech Republic) | 25 g | 30 min | 4 % |
| Boil | Lublin (Lubelski) | 20 g | 10 min | 3.4 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-33 | Ale | Dry | 12 g | Safale |

Extras

| Type | Name | Amount | Use for | Time |
|--------|----------------|--------|-----------|----------|
| Fining | Mech Irlandzki | 5 g | Boil | 10 min |
| Fining | Żelatyna | 5 g | Secondary | 3 day(s) |

Notes

- Burzliwa 18oC 7 dni,
Cicha 20-17oC, 7 dni
r/m/cyt.
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