

## Grodziskie #\_b\_ro słabo wędzone

- Gravity **8 BLG**
- ABV **3.1 %**
- IBU **18**
- SRM **2.5**
- 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 **75 min**
- Evaporation rate **10 %/h**
- Boil size **25.9 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **10.5 liter(s)**
- Total mash volume **13.5 liter(s)**

### Steps

- Temp **62 C**, Time **35 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **10.5 liter(s)** of strike water to **68C**
- Add grains
- Keep mash **35 min** at **62C**
- Keep mash **30 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **18.4 liter(s)** of **76C** water or to achieve **25.9 liter(s)** of wort

### Fermentables

| Type  | Name                               | Amount       | Yield | EBC |
|-------|------------------------------------|--------------|-------|-----|
| Grain | Grodziski pszeniczny wędzony dębem | 1 kg (33.3%) | 80 %  | 3   |
| Grain | Pszeniczny                         | 1 kg (33.3%) | 80 %  | 4   |
| Grain | Pilznieński                        | 1 kg (33.3%) | 80 %  | 4   |

### Hops

| Use for             | Name    | Amount | Time   | Alpha acid |
|---------------------|---------|--------|--------|------------|
| Boil                | Marynka | 10 g   | 60 min | 8 %        |
| Boil                | Marynka | 10 g   | 30 min | 8 %        |
| Aroma (end of boil) | Marynka | 20 g   | 0 min  | 8 %        |

### Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale  | Dry  | 11.5 g | Fermentis  |

### Extras

| Type | Name | Amount | Use for | Time |
|------|------|--------|---------|------|
|------|------|--------|---------|------|

|        |       |     |      |        |
|--------|-------|-----|------|--------|
| Fining | karuk | 5 g | Boil | 10 min |
|--------|-------|-----|------|--------|