

# Grodziskie

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- Gravity **8 BLG**
- ABV **3.1 %**
- IBU **20**
- SRM **3.1**
- 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 **100 min**
- Evaporation rate **13 %/h**
- Boil size **28 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4.7 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **18.2 liter(s)**

## Steps

- Temp **63 C**, Time **40 min**
- Temp **71 C**, Time **20 min**
- Temp **78 C**, Time **3 min**

## Mash step by step

- Heat up **15 liter(s)** of strike water to **67.6C**
- Add grains
- Keep mash **40 min** at **63C**
- Keep mash **20 min** at **71C**
- Keep mash **3 min** at **78C**
- Sparge using **16.2 liter(s)** of **76C** water or to achieve **28 liter(s)** of wort

## Fermentables

| Type  | Name                               | Amount        | Yield | EBC |
|-------|------------------------------------|---------------|-------|-----|
| Grain | Grodziski pszeniczny wędzony dębem | 1 kg (31.3%)  | 80 %  | 4   |
| Grain | Grodziski pszeniczny wędzony dębem | 2 kg (62.5%)  | 80 %  | 6   |
| Grain | Pszeniczny                         | 0.2 kg (6.3%) | 85 %  | 4   |

## Hops

| Use for             | Name              | Amount | Time   | Alpha acid |
|---------------------|-------------------|--------|--------|------------|
| Mash                | Lublin (Lubelski) | 100 g  | 10 min | 4 %        |
| Boil                | Lublin (Lubelski) | 30 g   | 80 min | 4 %        |
| Boil                | Lublin (Lubelski) | 10 g   | 15 min | 4 %        |
| Aroma (end of boil) | Lublin (Lubelski) | 10 g   | 3 min  | 4 %        |

## Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safbrew S-33 | Ale  | Dry  | 11.5 g | Safbrew    |

## Extras

Recipe has been printed via **BREWNES.com** - a complex online solution for homebrewers to track brewing process easily.

| Type   | Name     | Amount | Use for   | Time     |
|--------|----------|--------|-----------|----------|
| Fining | żelatyna | 4 g    | Secondary | 3 day(s) |