

#43 Grodziskie

- Gravity **7.6 BLG**
- ABV ---
- IBU **21**
- SRM **2.6**
- Style **Grodziskie/Graetzer**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26 liter(s)**

Mash information

- Mash efficiency **77 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **10.5 liter(s)**
- Total mash volume **13.5 liter(s)**

Steps

- Temp **63 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 **69.1C**
- Add grains
- Keep mash **35 min** at **63C**
- Keep mash **30 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **18.5 liter(s)** of **76C** water or to achieve **26 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|------------------------------------|----------------|-------|-----|
| Grain | Wędzony bestmalz | 1.3 kg (43.3%) | 77 % | 5 |
| Grain | Pszeniczny | 0.8 kg (26.7%) | 85 % | 4 |
| Grain | Grodziski jęczmienny wędzony dębem | 0.5 kg (16.7%) | 80 % | 3 |
| Grain | Pilzneński | 0.4 kg (13.3%) | 81 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|-------|--------|--------|------------|
| Boil | Lomik | 30 g | 60 min | 3.8 % |
| Aroma (end of boil) | Lomik | 20 g | 20 min | 3.8 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------------|------|--------|--------|------------|
| Z piwa z Grodziska | Ale | Liquid | 700 ml | --- |