

Grodziskie

- Gravity **7.6 BLG**
- ABV **2.9 %**
- IBU **21**
- SRM **2.9**
- 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 **90 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **9.35 liter(s) / kg**
- Mash size **28 liter(s)**
- Total mash volume **31 liter(s)**

Steps

- Temp **53 C**, Time **10 min**
- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **2 min**

Mash step by step

- Heat up **28 liter(s)** of strike water to **54.8C**
- Add grains
- Keep mash **10 min** at **53C**
- Keep mash **30 min** at **62C**
- Keep mash **30 min** at **72C**
- Keep mash **2 min** at **78C**
- Sparge using **1.4 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|--|-------------|-------|-----|
| Grain | Grodziski pszeniczny wędzony dębem bruntal | 3 kg (100%) | 80 % | 5 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|---------|--------|--------|------------|
| Boil | Tomyski | 30 g | 60 min | 4.9 % |
| Boil | Tomyski | 5 g | 15 min | 4.9 % |
| Aroma (end of boil) | Tomyski | 5 g | 0 min | 4.9 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale | Dry | 11 g | Fermentis |