

Imperialny Grodzisz

- Gravity **16.6 BLG**
- ABV **7 %**
- IBU **47**
- SRM **4.9**
- Style **Grodziskie/Graetzer**

Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **15.2 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **15.4 liter(s)**
- Total mash volume **19.8 liter(s)**

Steps

- Temp **62 C**, Time **45 min**
- Temp **72 C**, Time **20 min**

Mash step by step

- Heat up **15.4 liter(s)** of strike water to **68C**
- Add grains
- Keep mash **45 min** at **62C**
- Keep mash **20 min** at **72C**
- Sparge using **4.2 liter(s)** of **76C** water or to achieve **15.2 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------|---------------|-------|-----|
| Grain | Weyermann - Grodziski | 3 kg (68.2%) | 70 % | 4 |
| Grain | Viking Pale Ale malt | 1 kg (22.7%) | 80 % | 5 |
| Grain | Płatki owsiane | 0.4 kg (9.1%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------|--------|--------|------------|
| Boil | Mosaic | 25 g | 40 min | 10 % |
| Boil | Mosaic | 23 g | 10 min | 10 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|-------|--------|------------|
| Safale US-05 | Ale | Slant | 125 ml | Fermentis |