

HOPPY GRODZISKIE

- Gravity **7.6 BLG**
- ABV **2.9 %**
- IBU **32**
- SRM **2.3**
- 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 **60 min**
- Evaporation rate **22 %/h**
- Boil size **28.1 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **9 liter(s)**
- Total mash volume **12 liter(s)**

Steps

- Temp **38 C**, Time **30 min**
- Temp **52 C**, Time **30 min**
- Temp **63 C**, Time **25 min**
- Temp **72 C**, Time **35 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **9 liter(s)** of strike water to **41C**
- Add grains
- Keep mash **30 min** at **38C**
- Keep mash **30 min** at **52C**
- Keep mash **25 min** at **63C**
- Keep mash **35 min** at **72C**
- Keep mash **10 min** at **76C**
- Sparge using **22.1 liter(s)** of **76C** water or to achieve **28.1 liter(s)** of wort

Fermentables

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

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------|--------|--------|------------|
| Boil | Galaxy | 2 g | 60 min | 14.5 % |
| Boil | Galaxy | 15 g | 20 min | 14.5 % |
| Boil | Galaxy | 20 g | 7 min | 14.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-----------------|------|--------|--------|-------------|
| Wyeast - Kolsch | Ale | Liquid | 100 ml | Wyeast Labs |

Extras

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

| | | | | |
|--------|------|-----|------|--------|
| Fining | mech | 5 g | Boil | 15 min |
|--------|------|-----|------|--------|