

# HOPPY GRODZISKIE

- Gravity **7.3 BLG**
- ABV **2.8 %**
- IBU **19**
- SRM **4.1**
- Style **Grodziskie/Graetzer**

## Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **5 %**
- Size with trub loss **13.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **13 %/h**
- Boil size **15.6 liter(s)**

## Mash information

- Mash efficiency **77 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **5.1 liter(s)**
- Total mash volume **6.8 liter(s)**

## Steps

- Temp **52 C**, Time **30 min**
- Temp **65 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **5.1 liter(s)** of strike water to **57.3C**
- Add grains
- Keep mash **30 min** at **52C**
- Keep mash **30 min** at **65C**
- Keep mash **30 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **12.2 liter(s)** of **76C** water or to achieve **15.6 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Malt - Pszeniczny wedzony dębem	1.7 kg (100%)	80 %	10

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Sybilla (PL) - granulat	15 g	35 min	6.9 %
Whirlpool	Sybilla (PL) - granulat	25 g	---	6.9 %
w 75* przez 25 min				
Dry Hop	Sybilla (PL) - granulat	40 g	3 day(s)	6.9 %

## Yeasts

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

## Extras

Type	Name	Amount	Use for	Time
Other	Łuska ryżowa	25 g	Mash	---