

# Grodziskie

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- Gravity **8.3 BLG**
- ABV ---
- IBU **28**
- SRM **3.1**
- 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 **10 %/h**
- Boil size **25.3 liter(s)**

## Mash information

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

## Steps

- Temp **64 C**, Time **40 min**
- Temp **70 C**, Time **40 min**
- Temp **77 C**, Time **5 min**

## Mash step by step

- Heat up **liter(s)** of strike water to **C**
- Add grains
- Keep mash **40 min** at **64C**
- Keep mash **40 min** at **70C**
- Keep mash **5 min** at **77C**
- Sparge using **liter(s)** of **C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Grodziski	3 kg (100%)	80 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	15 g	60 min	11 %
Boil	Lublin (Lubelski)	20 g	10 min	4 %

## Yeasts

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