

# Strong Grodziskie

---

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **25**
- SRM **3.3**
- Style **Grodziskie**

## Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **24 liter(s)**

## Steps

- Temp **62 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **76 C**, Time **5 min**

## Mash step by step

- Heat up **18 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **40 min** at **62C**
- Keep mash **20 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **19.7 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	2 kg (33.3%)	81 %	4
Grain	Grodziski pszeniczny wędzony dębem	4 kg (66.7%)	80 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	30 g	25 min	13.5 %
Aroma (end of boil)	Lublin (Lubelski)	90 g	0 min	4 %

## Yeasts

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