

huzar

- Gravity **9.8 BLG**
- ABV **3.8 %**
- IBU **25**
- SRM **2.8**
- 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 liter(s) / kg**
- Mash size **7.2 liter(s)**
- Total mash volume **9.6 liter(s)**

Steps

- Temp **68 C**, Time **70 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **7.2 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **70 min** at **68C**
- Keep mash **10 min** at **76C**
- Sparge using **10.4 liter(s)** of **76C** water or to achieve **15.2 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Grodziski pszeniczny wędzony dębem	2 kg (83.3%)	80 %	3
Grain	Płatki owsiane	0.4 kg (16.7%)	60 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Lublin (Lubelski)	20 g	60 min	4 %
Boil	Lublin (Lubelski)	10 g	30 min	4 %
Boil	Lublin (Lubelski)	5 g	15 min	4 %
Aroma (end of boil)	Lublin (Lubelski)	15 g	0 min	4 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safbrew S-33	Ale	Slant	150 ml	Fermentis

Extras

Type	Name	Amount	Use for	Time
Fining	tabletko	2 g	Boil	10 min