

Wędzone Gwoździaki

- Gravity **11.4 BLG**
- ABV **4.6 %**
- IBU **10**
- SRM **3**
- Style **Weizen/Weissbier**

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 **15 %/h**
- Boil size **33.1 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

Steps

- Temp **44 C**, Time **20 min**
- Temp **63 C**, Time **20 min**
- Temp **72 C**, Time **40 min**

Mash step by step

- Heat up **15 liter(s)** of strike water to **48C**
- Add grains
- Keep mash **20 min** at **44C**
- Keep mash **20 min** at **63C**
- Keep mash **40 min** at **72C**
- Sparge using **23.1 liter(s)** of **76C** water or to achieve **33.1 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	2.5 kg (50%)	81 %	4
Grain	Grodziski pszeniczny wędzony dębem	2.5 kg (50%)	80 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Hallertau mittelfruh	25 g	60 min	4.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM41 Gwoździe i Banany	Wheat	Slant	100 ml	Fermentum Mobile