

Marokańskie

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **12**
- SRM **3.6**
- Style **Northern English Brown Ale**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **25.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

Steps

- Temp **68 C**, Time **50 min**
- Temp **72 C**, Time **10 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **15 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **50 min** at **68C**
- Keep mash **10 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **15.7 liter(s)** of **76C** water or to achieve **25.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2 kg (40%)	80 %	5
Grain	Grodziski pszeniczny wędzony dębem	3 kg (60%)	80 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Mash	Perle	20 g	60 min	7 %
Boil	Marynka	30 g	10 min	10 %

Yeasts

Name	Type	Form	Amount	Laboratory
Fermentis Safbrew BE-134	Ale	Dry	11.5 g	Fermentis

Extras

Type	Name	Amount	Use for	Time
Herb	Zielona herbata	5000 g	Boil	60 min
Herb	Mięta	5000 g	Boil	60 min

Flavor	Cukier kandyzowany belgijski BIAŁY	500 g	Primary	7 day(s)
--------	------------------------------------------	-------	---------	----------