

Scottish Strong Ale

- Gravity **21.8 BLG**
- ABV ---
- IBU **23**
- SRM **26.6**
- Style **Strong Scotch Ale**

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 **8 %/h**
- Boil size **24.4 liter(s)**

Mash information

- Mash efficiency **82 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **18.8 liter(s)**
- Total mash volume **26.3 liter(s)**

Steps

- Temp **64 C**, Time **70 min**
- Temp **72 C**, Time **10 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **18.8 liter(s)** of strike water to **72.8C**
- Add grains
- Keep mash **70 min** at **64C**
- Keep mash **10 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **13.1 liter(s)** of **76C** water or to achieve **24.4 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Castle Pale Ale	4 kg (53.3%)	80 %	8
Grain	Strzegom Monachijski typ I	2 kg (26.7%)	79 %	16
Grain	Casle Malting Whisky Nature	1 kg (13.3%)	85 %	4
Grain	Carahell	0.3 kg (4%)	77 %	26
Grain	Strzegom pszenica prażona	0.2 kg (2.7%)	70 %	1000

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	East Kent Goldings	30 g	60 min	5.1 %
Boil	Chinook	5 g	60 min	12.8 %
Boil	East Kent Goldings	20 g	15 min	5.1 %

Yeasts

Name	Type	Form	Amount	Laboratory
BREWGO ALE	Ale	Dry	22 g	brewgo