

## #44 American Brown Ale

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- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **31**
- SRM **23.8**
- Style **American Brown Ale**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **75 min**
- Evaporation rate **10 %/h**
- Boil size **25.9 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.9 liter(s)**
- Total mash volume **21.2 liter(s)**

### Steps

- Temp **68 C**, Time **60 min**
- Temp **78 C**, Time **0 min**

### Mash step by step

- Heat up **15.9 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **0 min** at **78C**
- Sparge using **15.3 liter(s)** of **76C** water or to achieve **25.9 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	4 kg (75.5%)	79 %	6
Grain	Strzegom Wiedeński	0.5 kg (9.4%)	79 %	10
Grain	Biscuit Malt	0.25 kg (4.7%)	79 %	45
Grain	Strzegom Karmel 150	0.25 kg (4.7%)	75 %	150
Grain	Fawcett - Pszeniczny Czekoladowy	0.2 kg (3.8%)	73 %	1001
Grain	Strzegom Barwiący	0.1 kg (1.9%)	68 %	1300

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	10 g	60 min	15.8 %
Boil	Simcoe	10 g	30 min	12.6 %
Boil	Citra	10 g	5 min	12.5 %
Boil	Ahtanum	20 g	5 min	3.6 %
Dry Hop	African Queen	25 g	2 day(s)	11.8 %
Dry Hop	Equinox	25 g	2 day(s)	14 %

### Yeasts

<b>Name</b>	<b>Type</b>	<b>Form</b>	<b>Amount</b>	<b>Laboratory</b>
Safale S-04	Ale	Slant	300 ml	---

### **Extras**

<b>Type</b>	<b>Name</b>	<b>Amount</b>	<b>Use for</b>	<b>Time</b>
Fining	whirlfloc	1 g	Boil	10 min
Water Agent	gips	6 g	Mash	60 min
Other	Witamina C	4 g	Bottling	---