

AAA

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **39**
- SRM **6**
- Style **American Amber 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 **10 %/h**
- Boil size **25.3 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 **67 C**, Time **50 min**
- Temp **72 C**, Time **30 min**

Mash step by step

- Heat up **15 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **50 min** at **67C**
- Keep mash **30 min** at **72C**
- Sparge using **15.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	4 kg (80%)	85 %	7
Grain	Monachijski typ II 20-25 EBC Weyermann	1 kg (20%)	80 %	20

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Centennial	20 g	60 min	10.5 %
Boil	Amarillo	20 g	30 min	9.8 %