

Wheat APA do kega na grilla

- Gravity **15.2 BLG**
- ABV **6.3 %**
- IBU **23**
- SRM **5.1**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **30.4 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21.6 liter(s)**
- Total mash volume **28.8 liter(s)**

Steps

- Temp **66 C**, Time **60 min**
- Temp **76 C**, Time **30 min**

Mash step by step

- Heat up **21.6 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **30 min** at **76C**
- Sparge using **16 liter(s)** of **76C** water or to achieve **30.4 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	4.2 kg (58.3%)	85 %	7
Grain	Płatki pszeniczne	1 kg (13.9%)	60 %	3
Grain	Weyermann - Pale Wheat Malt	2 kg (27.8%)	85 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	25 g	10 min	15.5 %
Aroma (end of boil)	Columbus/Tomahawk/Zeus	25 g	10 min	15.5 %
Dry Hop	Columbus/Tomahawk/Zeus	50 g	7 day(s)	15.5 %
Dry Hop	Amarillo	50 g	7 day(s)	9.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Slant	150 ml	Fermentis