

APA

- Gravity **10.7 BLG**
- ABV **4.3 %**
- IBU **41**
- SRM **5**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **30 liter(s)**
- Trub loss **5 %**
- Size with trub loss **31.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **38 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.5 liter(s)**
- Total mash volume **26 liter(s)**

Steps

- Temp **62 C**, Time **60 min**

Mash step by step

- Heat up **19.5 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **60 min** at **62C**
- Sparge using **25 liter(s)** of **76C** water or to achieve **38 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	5 kg (76.9%)	79 %	6
Grain	Strzegom Golden Ale	1 kg (15.4%)	80 %	10
Grain	Strzegom Karmel 30	0.5 kg (7.7%)	75 %	30

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	25 g	50 min	12 %
Boil	Citra	20 g	15 min	12 %
Whirlpool	Chinook	50 g	10 min	13 %

Yeasts

Name	Type	Form	Amount	Laboratory
US-04	Ale	Dry	11 g	Fermentis