

spring comes

- Gravity **15.7 BLG**
- ABV **6.6 %**
- IBU **84**
- SRM **5.2**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **19.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **24.1 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **24 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	5 kg (83.3%)	79 %	6
Grain	Pszoniczny	1 kg (16.7%)	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Apollo	20 g	60 min	17 %
Boil	Bravo	20 g	30 min	15.5 %
Boil	denali	20 g	30 min	14 %
Aroma (end of boil)	Apollo	20 g	1 min	17 %
Aroma (end of boil)	Denali	20 g	1 min	14 %
Dry Hop	Barbe Rouge	60 g	5 day(s)	6.6 %
Dry Hop	Denali	60 g	5 day(s)	14 %
Dry Hop	Apollo	60 g	5 day(s)	17 %

Yeasts

Name	Type	Form	Amount	Laboratory
liberty bell	Ale	Dry	11.5 g	---