

# Brett Ale

- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **66**
- SRM **6.5**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **27.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **33 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 **45 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **21.6 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **45 min** at **66C**
- Keep mash **20 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **18.6 liter(s)** of **76C** water or to achieve **33 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4.5 kg (62.5%)	80 %	5
Grain	Strzegom Pszeniczny	1.5 kg (20.8%)	81 %	6
Grain	Płatki pszeniczne	0.5 kg (6.9%)	85 %	3
Grain	Płatki owsiane	0.5 kg (6.9%)	85 %	3
Grain	Fawcett - Brown	0.2 kg (2.8%)	72 %	180

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	28 g	60 min	15.5 %
Whirlpool	Azacca	100 g	20 min	13 %

## Yeasts

Name	Type	Form	Amount	Laboratory
WLP648 - Brettanomyces bruxellensis Trois Vrai	Ale	Slant	150 ml	White Labs