

# Centennial & Mosaic Hazy APA v.2 z gęstwy

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **33**
- SRM **3.9**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **30.2 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **19.8 liter(s)**
- Total mash volume **25.4 liter(s)**

## Steps

- Temp **62 C**, Time **50 min**
- Temp **72 C**, Time **10 min**
- Temp **76 C**, Time **1 min**

## Mash step by step

- Heat up **19.8 liter(s)** of strike water to **68C**
- Add grains
- Keep mash **50 min** at **62C**
- Keep mash **10 min** at **72C**
- Keep mash **1 min** at **76C**
- Sparge using **16.1 liter(s)** of **76C** water or to achieve **30.2 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	5 kg (88.5%)	80 %	4
Grain	Płatki owsiane	0.5 kg (8.8%)	60 %	3
Grain	Strzegom Karmel 30	0.15 kg (2.7%)	75 %	30

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Centennial	10 g	60 min	11 %
Boil	Mosaic	10 g	60 min	12.3 %
Aroma (end of boil)	Centennial	10 g	5 min	11 %
Aroma (end of boil)	Mosaic	10 g	5 min	12.3 %
Whirlpool	Centennial	30 g	5 min	11 %
Whirlpool	Mosaic	30 g	5 min	12.3 %
Dry Hop	Centennial	50 g	4 day(s)	11 %
Dry Hop	Mosaic	50 g	4 day(s)	12.3 %

## Yeasts

Name	Type	Form	Amount	Laboratory
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FM52 Amerykański Sen	Ale	Slant	150 ml	Fermentum Mobile
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