

# 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 |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

|                      |     |       |        |                  |
|----------------------|-----|-------|--------|------------------|
| FM52 Amerykański Sen | Ale | Slant | 150 ml | Fermentum Mobile |
|----------------------|-----|-------|--------|------------------|